

**15 -ാം കേരള നിയമസഭ**

**10 -ാം സമ്മേളനം**

**നക്ഷത്ര ചിഹ്നം ഇല്ലാത്ത പോദ്യം നം. 1910**

**02-02-2024 - ൽ മറുപടിയ്ക്ക്**

**കെ-സിപിഎസ് ബന്ധുകൾ**

പോദ്യം		ഉത്തരം	
<b>ശ്രീ. എം. വിൻസെന്റ്</b>		<b>ശ്രീ കെ ബി ഗണേഷ് കുമാർ (ഗതാഗത വകുപ്പ് മന്ത്രി)</b>	
(എ)	കെ-സിപിഎസ് മാത്രമേ പുതിയ ബന്ധുകൾ വാങ്ങുകയുള്ളൂ എന്ന് മന്ത്രിസഭാ തീരുമാനം ഉണ്ടോ; ഉണ്ടെങ്കിൽ ഏത് ദിവസത്തെ മന്ത്രിസഭാ യോഗമാണ് പ്രസ്തുത തീരുമാനമെടുത്തത്;	(എ)	അപ്രകാരം മന്ത്രിസഭാ തീരുമാനമില്ല.
(ബി)	കെ-സിപിഎസിലെ ഇലക്ട്രിക് ബന്ധുകൾക്ക് കിലോമീറ്റർ വാടക എത്ര രൂപയാണ്;	(ബി)	കെ.എസ്.ആർ.ടി.സി.-സിപിഎസ് ഇലക്ട്രിക് ബന്ധുകൾക്ക് കിലോമീറ്ററിന് 25.85 രൂപ ആണ് വാടക നിശ്ചയിച്ചിരിക്കുന്നത്.
(സി)	കെ-സിപിഎസ് കിഫ്ബി വായ്പയെടുത്ത് വാങ്ങിയ ഇലക്ട്രിക് ബന്ധുകളുടെ ടെൻഡർ ഡോക്യുമെന്റിന്റെയും സിപിഎസുമായി കെ.എസ്.ആർ.ടി.സി.യുമായി ബന്ധ് കമ്പനി ഉണ്ടാക്കിയ പർച്ചേസ് കരാറിന്റെയും പകർപ്പ് നൽകാമോ;	(സി)	ടെണ്ടർ ഡോക്യുമെന്റ്, എഗ്രിമെന്റ്, പർച്ചേയ്സ് കരാറിന്റെ പകർപ്പ് അനുബന്ധം I ആയി ചേർക്കുന്നു.
(ഡി)	കെ-സിപിഎസ് വാങ്ങിയ പി.എം.ഐ. കമ്പനിയുടെ ഇലക്ട്രിക് ബന്ധുകളുടെ മെയിന്റനൻസ് ചെയ്യുന്നതിന് കമ്പനിക്ക് കേരളത്തിൽ സർവ്വീസ് സെന്റർ ഉണ്ടോ; ഇല്ലെങ്കിൽ എങ്ങനെയാണ് പ്രസ്തുത ബന്ധുകളുടെ മെയിന്റനൻസ് നിലവിൽ നടത്തി വരുന്നത്;	(ഡി)	പി.എം.ഐ കമ്പനിയിൽ നിന്നും വാങ്ങിയ ഇലക്ട്രിക് ബന്ധുകൾക്ക് രണ്ടു വർഷത്തെ വാറണ്ടിയും രണ്ടു വർഷത്തെ വാറണ്ടിക്ക് ശേഷം ഇലക്ട്രിക് ഡ്രൈവ് ലൈൻ, ഇലക്ട്രിക് ഭാഗങ്ങൾ തുടങ്ങിയവയ്ക്ക് അഞ്ചുവർഷത്തെ എ.എം.സി.യും നൽകണമെന്നതാണ് വ്യവസ്ഥ. ഇതിനായി വാഹന നിർമ്മാതാവ്, ആവശ്യമുള്ള ജീവനക്കാരെ കെ.എസ്.ആർ.ടി.സി. അനുവദിച്ചു നൽകുന്ന ഡിപ്പോകളിൽ വിന്യസിക്കണം എന്ന് വ്യവസ്ഥ ചെയ്യുന്നുണ്ട്. ഇപ്രകാരം പി.എം.ഐ. കമ്പനി തിരുവനന്തപുരം സിറ്റി, പേരൂർക്കട എന്നീ ഡിപ്പോകളിൽ ബന്ധുകളുടെ പരിപാലനം നടത്തി വരുന്നു. ഡ്രൈവ് ലൈൻ ഇലക്ട്രിക് പാർട്സുകൾ, ബാറ്ററി തുടങ്ങിയവ ഒഴികെയുള്ള മറ്റു ഭാഗങ്ങളുടെ പരിപാലനം കെ.എസ്.ആർ.ടി.സി. നടത്തിവരുന്നു.
(ഇ)	കെ-സിപിഎസിലെ പി.എം.ഐ. കമ്പനിയുടെ ഏതൊക്കെ ഇലക്ട്രിക് ബന്ധുകൾക്ക് ഇതുവരെ	(ഇ)	ഇലക്ട്രിക് ബന്ധുകൾക്ക് ഇതുവരെ മോട്ടോർ, ബാറ്ററി തകരാറുകൾ സംഭവിച്ചതിന്റെ വിശദാംശങ്ങൾ

	<p>മോട്ടോർ, ബാറ്ററി തകരാറുകൾ സംഭവിച്ചിട്ടുണ്ട്; ഓരോ ബസ്സിന്റെയും നമ്പരും, തകരാറും, തകരാറ് സംഭവിച്ച കിലോമീറ്ററും സഹിതം വ്യക്തമാക്കാമോ; കെ-സിഎല്ലിലെ ബസ്സുകൾക്കായി ഇതുവരെ കെ.എസ്.ആർ.ടി.സി. ഏതൊക്കെ സ്പെയർ പാർട്സുകൾ എത്രയെണ്ണം വീതം എത്ര രൂപയ്ക്ക് വാങ്ങിയിട്ടുണ്ട് എന്നതിന്റെ വിശദാംശങ്ങൾ വ്യക്തമാക്കാമോ;</p>		<p>ചുവടെ ചേർക്കുന്നു:</p> <p>KS129 തിരുവനന്തപുരം സിറ്റി ഡിപ്പോയിലെ ബസ്സ്, 18,128 കിലോ മീറ്ററിൽ battery വാറണ്ടിയിൽ മാറിയിട്ടുണ്ട്. മോട്ടോറുകൾ ഒന്നും തന്നെ മാറിയിട്ടില്ല.</p> <p>കെ.എസ്.ആർ.ടി.സി.-സിഎല്ലിലെ പി.എം.ഐ. ഇലക്ട്രിക് ബസ്സുകൾക്ക് 67,56,905/- രൂപ Tyre, Brakepad, Filters, Wind shield Glass, Air filter, Halagon bulb, Greasing Kit, Glass Beeding, Lubricants എന്നിവ വാങ്ങിയിട്ടുണ്ട്. വിശദാംശങ്ങൾ അനുബന്ധം II ആയി ചേർക്കുന്നു.</p>
(എഫ്)	<p>കെ-സിഎല്ലിൽ കണ്ടക്ടർ, ഡ്രൈവർ, ലാസ്റ്റ് ഗ്രേഡ് തസ്തികകൾക്ക് പുറമെ ഏതെല്ലാം തസ്തികകൾ എത്ര എണ്ണം വീതം നിലവിൽ ഉണ്ട്; അതിൽ നിയമിച്ചിട്ടുള്ളവരുടെ പേര്, യോഗ്യത, ശമ്പളം എന്നിവ വ്യക്തമാക്കാമോ;</p>	(എഫ്)	<p>കെ.എസ്.ആർ.ടി.സി.-സിഎല്ലിൽ കണ്ടക്ടർ, ഡ്രൈവർ, ലാസ്റ്റ് ഗ്രേഡ് തസ്തികകൾക്ക് പുറമെ വിവിധ തസ്തികകളിൽ നിലവിൽ ജോലി ചെയ്യുന്നവരുടെ വിവരങ്ങൾ അനുബന്ധം III ആയി ചേർക്കുന്നു.</p>
(ജി)	<p>കെ-സിഎല്ലിലെ ഇലക്ട്രിക് ബസ്സുകൾക്ക് 2023 ഡിസംബർ 31 വരെ ഓരോ മാസവും എത്ര രൂപയാണ് വരുമാനം ലഭിച്ചിട്ടുള്ളത്; കെ-സിഎല്ലിലെ ഇലക്ട്രിക് ബസ്സുകൾ വാങ്ങിയതിനും മെയിന്റനൻസ് ചെയ്തതിനും ഓപ്പറേറ്റ് ചെയ്തതിനും ലോൺ തിരിച്ചടവിനും 2023 ഡിസംബർ 31 വരെ ആകെ എത്ര രൂപയാണ് ചെലവായത്; ഓരോന്നും ഇനം തിരിച്ച് വ്യക്തമാക്കാമോ?</p>	(ജി)	<p>കെ.എസ്.ആർ.ടി.സി.-സിഎല്ലിലെ ഇലക്ട്രിക് ബസ്സുകൾക്ക് 2023 ഡിസംബർ 31 വരെ ഓരോ മാസവും ലഭിച്ച വരുമാനം, കെ.എസ്.ആർ.ടി.സി.-സിഎല്ലിലെ ഇലക്ട്രിക് ബസ്സുകൾ വാങ്ങിയതിനും മെയിന്റനൻസ് ചെയ്തതിനും ഓപ്പറേറ്റ് ചെയ്തതിനും 2023 ഡിസംബർ 31 വരെ ആകെ ചെലവായ തുക എന്നിവയുടെ ഇനം തിരിച്ച വിവരങ്ങൾ അനുബന്ധം IV ആയി ചേർക്കുന്നു.</p>

സെക്ഷൻ ഓഫീസർ

# അനുബന്ധം - I



## **KERALA STATE ROAD TRANSPORT CORPORATION**

TRANSPORT BHAVAN, FORT, THIRUVANANTHAPURAM - 695 023

Telephone No: 0471-2471011, Extn : 321 / 303

E-mail: [sr@kerala.gov.in](mailto:sr@kerala.gov.in) / [tenderksrtc@gmail.com](mailto:tenderksrtc@gmail.com) Web: [www.keralartc.com](http://www.keralartc.com)

No. **SRA1/001003/2021**

Date: **28.09.2021**

### **CORRIGENDUM / ADDENDUM**

**Sub: Supply of FULLY BUILT 9 METER NON AC-ELECTRIC BUS (50 NOS) WITH 25 CHARGERS - Amendment of NIT**

**Ref: Tender ID: 2021\_KSRTC\_438224\_1**

SL No	Clause No./ specification SI No.	Characteristics	Existing Tender Parameters	Changes requested by M/s. JBM Bus Division	Changes requested by M/s. Ashok Leyland Ltd	Reply
1	2.13	SCOPE AND DESCRIPTION OF CONTRACT	The bidder shall supply 25 Nos. of chargers with panel board for charging the Electric bus and arrange installation of the same at the destination specified. KSRTC shall provide electric supply input up to panel board of the chargers	Request to kindly confirm if LT or HT Supply since HT or LT Panel depends on the same. In case of LT power supply, we request authority to provide power supply upto charger including all associated civil works. We are assuming that Power Infrastructure	To reiterate Authority shall provide transformer and / related Electrical and Civil infrastructure along with power cables till the point of Charger installation. Bidder will provide charger and install the	The LT / HT electric connection upto the chargers will be provided by KSRTC. Civil and back end high voltage electrical system for chargers including transformers will be provided by KSRTC.

SL No	Clause No./ specification SI No.	Characteristics	Existing Tender Parameters	Changes requested by M/s. JBM Bus Division	Changes requested by M/s. Ashok Leyland Ltd	Reply
				(including all Upstream/ Downstream), Civil & Charger shed is in KSRTC Scope	same in intended location only. Request authority to clarify in case of discrepancy in understanding.	
2	4.1.3	AMC period (taken for evaluation)	Five years after the expiry of warranty period @ 1,00,000 km per bus per year (1,00,000 KM taken is only for evaluation Purpose) For the Battery Pack (for Propulsion) should have Three Years after the expiry of warranty period of 2 years/2 Lakh Kms	Request to kindly confirm assured kilometers for AMC. We are assuming 1,00,000 km is assured kilometers.	Request authority to indicate Assured kilometres per year for AMC which authority will pay to OEM.	Buses are expected to cover 240 km / day in Thiruvananthapuram City. No assurance on km can be given
3	14 & 15	Front Door 1 & Center door	Between axles- 1000 mm wide for rapid movement of passengers (Power operated controlled)	Rear Service Door:- Between Axles- JK Type Power Operated Driver Controlled .Clear aperture 1200 mm (+/- 20) with Clear opening 900 (+/- 10) without grab handles & 825(+/- 10) with grab handles.Front Service Door:-Ahead of Front Axle- JK Type Power Operated Driver Controlled .Clear aperture 800 mm (+/- 20) with Clear opening 660 (+/- 10) without grab handles & 620(+/- 10) with grab handles. All		Bus body code as per CMVR / AIS:052

SL No	Clause No./ specification SI No.	Characteristics	Existing Tender Parameters	Changes requested by M/s. JBM Bus Division	Changes requested by M/s. Ashok Leyland Ltd	Reply
				Doors shall comply bus body code as per CMVR		
4	34)	Grab rails, Centre posts and passenger slings	Stainless steel pipe of 32mm & 2mm thick for Grab rail, Centre post and should provide passenger slings at necessary points.	42mm dia. 3mm thickness aluminium & dia 32mm x3mm thick handrail with gray/Yellow hamertone slip resistant powder coating with handhold as per AIS052/046.		As per AIS 052 / 146 Advertisement provision shall be provided for passenger slings
5	35)	Foot step	Lower foot step should have retractable facility for differentially disabled	Not mandatory as per CMVR/AIS052, Request to make it optional or remove same requirement		Required for accessibility to differentially abled.
6	44)	Fitment of Rear view mirror	Stainless steel C-brackets, Left side rear view mirror should visible to driver through Front Wind Screen glass(Compulsory)	RH side Rear view mirror frame made ERW tube, fixed on driver door, visible through driver door sliding type window. LH side Rear view mirror with bumper mirror, frame made of Aluminium casting, visible through front windscreen glass		Agreed
7	70	Battery (starting battery) cut - off switch (isolator switch):	Shall be positioned near driver seat for easy and quick operation by driver.	Remote Battery cutoff on dashboard & manual cutoff in Battery compartment on LH side on bus & can be accessed through openable panel. It will be		As per AIS : 052 / Type approval

SL No	Clause No./ specification SI No.	Characteristics	Existing Tender Parameters	Changes requested by M/s. JBM Bus Division	Changes requested by M/s. Ashok Leyland Ltd	Reply
				as per CMVR/Type approval. Request acceptance.		
8	71	Wind screen wiper:	As per table 22 of AIS 007	Complied as CMVR/IS15802. Request acceptance.		Agreed
9	72	Wiper motor:	Variable speed with time delay relay as per AIS 11	Complied as AIS11/IS15802. Request acceptance.		Agreed
10	73	Wiper arm/blade:	As per AIS 019/AIS 011	Complied as AIS11/IS15802. Request acceptance.		Agreed
11	84)	Emergency exit doors, warning devices etc.	As per AIS 052 /CMVR No seats shall be fitted obstructing the free access to emergency door. One grab rail to be provided above the emergency door. Foot rest cum guard to be provided in front of seats behind emergency door.	Emergency Exit will be provided as per AIS052 for type-I buses. Emergency door not applicable for type-1 buses. Request amendment.		As per bus body code AIS:052
12	89	Luggage Box / Courier Box	As per AIS 052 and mutually agreed by the KSRTC and bidder with scope for maximum space for the provision of courier transportation.	Luggage/Curior space requirement not required for Type-I buses as per CMVR/AIS052, Request to kindly delete.		Required suitable size luggage / courier box at suitable location with lock and key facility.
13	90	Electronic Ticketing Machine (ETM) Box	Electronic Ticket Machine (ETM)/ Ticket Rack Box: One box with lock and key should be provided to keep it safely	Ticket rack box with lock & key provided in driver compartment just above driver seat. Request		Not accepted

SL No	Clause No./ specification SI No.	Characteristics	Existing Tender Parameters	Changes requested by M/s. JBM Bus Division	Changes requested by M/s. Ashok Leyland Ltd	Reply
			under the conductor seat.	acceptance.		
14	91)	Roof hatch	2 nos. to be provided (Front-1No- openable to front and Rear-1No- openable to rear)	1 no: will be provided at openable on roof at front portion as per AIS052/CMVR. Request acceptance.		2 Nos. required
15	93	Stay box for crew	To be provided with locking facility and accessible from driver cabin. It should be enough spacious to keep the essentially belongings of crew.	Ticket rack box with lock & key provided in driver compartment just above driver seat. Request acceptance.		There should be enough space to keep the essential belongings of the crew.
16	96	Driver Cabin Separation	Should be separated from passenger saloon as per AIS 052 Stainless steel tube structure, fencing type suitably designed by the manufacturer. This separation should not restrict the driver seat position adjustments.	Request this to be as per manufacturers design. Aluminum tubular structure with Toughed glass/acrylic sheet behind driver seat will be provided as driver compartment separation		As per Bus body code AIS:052
17	98	Accessories	Fully equipped tool kit containing Tommy bar, Wheel spanner, Screw driver (heavy duty), cutting pliers, pipe wrench and Hydraulic Bottle Jack 10 Ton (Minimum Capacity).	Standard tools with Hydraulic/ Mechanical jack of 10 ton capacity will be provided. (without pipe wrench). Request acceptance.		Standard tool kit with 10 Ton (minimum) Hydraulic Jack to be provided
18	99	Bus Chargers	One charging unit should be supplied for every 2 buses, and installed at the location suggested by KSRTC. Civil and back end high voltage electrical system for chargers	Request to kindly provide us the time available for charging for 1 bus. This will help define the capacity of chargers required to be provided.		Charging time not to exceed 2 hrs 30 minutes. For full charge.

SL No	Clause No./ specification SI No.	Characteristics	Existing Tender Parameters	Changes requested by M/s. JBM Bus Division	Changes requested by M/s. Ashok Leyland Ltd	Reply
			including transformers will be provided by KSRTC			
19	104	Conductor seat	Shall be provided separately as independent seat near the rear foot board.	Seats mounted on front wheel humps, just behind front door is mounted on highest most point in bus, so LH side one seat can be declared as conductor seat. Request acceptance.		As per Bus body code AIS:052
20	105	Vehicle location tracking device and emergency button	Complying AIS 140 and as approved by KMVD with IRNSS, models with minimum 5 panic buttons necessary software shall also be supplied for Vehicle Tracking, Energy consumption monitoring, PIS and other performance reports and must be integrated with KSRTC applications.	Will comply to the requirements of vehicle tracking as per AIS 140 except Energy consumption monitoring, PIS & other performance reports (these functions are part of ITS and not VTS).		The VLTD shall be compatible integrate with the applications associated with KSRTC.
21		3.1	Supply of fully built 9m non ac electric buses with 25 chargers and with warranty for 2 years and annual maintenance after the expiry of warranty period		Request Authority to provide Charging time requirement please.	Charging time not to exceed 2 hrs 30 minutes. For full charging.
22		General	Depot		Request authority to confirm if all 50 buses will be allocated in single depot, If not	Depots in Thiruvananthapuram Viz, City, Eanchakkal, Pappanamcode.



SL No	Clause No./ specification SI No.	Characteristics	Existing Tender Parameters	Changes requested by M/s. JBM Bus Division	Changes requested by M/s. Ashok Leyland Ltd	Reply
					Request authority to mention the depot locations intended for Electric bus operations.	
25		General	The bidder shall supply 25 Nos. of chargers with panel board for charging the Electric bus and arrange installation of the same at the destination specified. KSRTC shall provide electric supply input up to panel board of the chargers.		Request Authority to confirm the scope of charging of buses, Whether Driver will charge the bus.?	Charging will be done by KSRTC personal
26		General	Bid Submission due date		Request authority to extend the Bid submission due date till 30th September 2021 considering the Current Pandemic conditions in the country.	Extended upto 04.10.2021

**Tender Inviting Authority**



## KERALA STATE ROAD TRANSPORT CORPORATION

TRANSPORT BHAVAN, FORT, THIRUVANANTHAPURAM - 695 023

Telephone No: 0471-2471011, Extn : 321 / 303

E-mail: [sr@kerala.gov.in](mailto:sr@kerala.gov.in) / [tenderksrtc@gmail.com](mailto:tenderksrtc@gmail.com) Web: [www.keralartc.com](http://www.keralartc.com)

No. **SRA1/001003/2021**

Date: **08.10.2021**

### CORRIGENDUM / ADDENDUM - 2

**Sub: Supply of FULLY BUILT 9 METER NON AC-ELECTRIC BUS (50 NOS) WITH 25 CHARGERS - Amendment of NIT**

**Ref: Tender ID: 2021\_KSRTC\_438224\_1**

SL No	Clause No./ specification SI No.	Clause	Existing Parameters	Tender	Changes requested by M/s. VE Commercial Vehicles Ltd (Eicher)	Changes requested by M/s. Ashok Leyland Ltd	Reply
1	4.5.10	Qualification criteria	The tenderer or its subsidiary company (with documentary proof) should have supplied/leased minimum 10 nos. of ELECTRIC buses having overall length not less than 8 mtrs in India during last 2 (Two) years and those buses shall be performing		Kindly amend the Qualification criteria clause as below:  The tenderer, its partner or Joint Venture company should have supplied/leased minimum 2 nos. of ELECTRIC buses having overall length not less	The tenderer or its subsidiary/ Parent/ Associate company (with documentary proof) should have supplied/leased minimum 10 nos. of ELECTRIC buses having overall length	The tenderer / its partner / Joint Venture Company / its associate / its parent company should be in the business of manufacturing and supply of Electric Buses of overall length not less than 8 mtrs and they should either in the manufacturing of

SL No	Clause No./ specification SI No.	Clause	Existing Tender Parameters	Changes requested by M/s. VE Commercial Vehicles Ltd (Eicher)	Changes requested by M/s. Ashok Leyland Ltd	Reply
			satisfactorily as on date. Also the vehicles supplied to any STUs in India for hiring on wet lease and vehicles supplied on GCC contracts shall be considered based on the confirmation from the concerned STU. The bidder should upload sufficient proof of supply of buses (Electric buses) such as tax invoice/agreement to confirm the supply/lease of 10 Nos. of ELECTRIC buses. The tenderer shall furnish the certificate from the purchaser for satisfactory performance of the ELECTRIC buses supplied along with <b>Annexure - D</b> to be uploaded.	than 8 mtrs in India or globally in the past and those buses shall be performing satisfactorily as on date.	not less than 8 mtrs in India during last 2 (Two) years and those buses shall be performing satisfactorily as on date.  <b>Justification-</b> Tender or its parent/ associate company should be allowed.	buses in India for the last 10 years or in the manufacturing of Electric buses for the last one year. Uploading the documents for qualifying the above conditions.
2	4.5.2		The tenderer should be in the business of manufacturing and supply of ELECTRIC buses for the last		The tenderer or it's associate/Parent company should be in the	

SL No	Clause No./ specification SI No.	Clause	Existing Tender Parameters	Changes requested by M/s. VE Commercial Vehicles Ltd (Eicher)	Changes requested by M/s. Ashok Leyland Ltd	Reply
			one year within the country. Notarized documentary proofs shall be uploaded.		business of manufacturing and supply of ELECTRIC buses for the last one year within the country  <u>Justification-</u> Since the New Company is formed recently on M arch'21, we required authority to allow bidder or its parent/ associate company should be in the business of manufacturing and supply of ELECTRIC buses for the last one year within the country.	
3	106	Appendix-I	Type approval / ARAI certificate of at least one model of Electric Bus to be submitted by the bidder		Type approval / ARAI certificate of bidder or its Associate / Parent company of at least one	Type approval / ARAI Certificate of bidder or its associate / parent company of atleast one model Electric bus to be submitted and during the

SL No	Clause No./ specification SI No.	Clause	Existing Tender Parameters	Changes requested by M/s. VE Commercial Vehicles Ltd (Eicher)	Changes requested by M/s. Ashok Leyland Ltd	Reply
					<p>model of Electric Bus to be submitted by the Bidder</p> <p>Justification: We request to allow bidders to submit Type approval / ARAI certificate of Bidder or its parent / associate company at the time of bid submission. During execution of the order; type approval / ARAI certificate will be taken in the name of bidder</p>	<p>execution of order, type approval / ARAI Certificate shall be produced by the bidder. An affidavit in this regard to be uploaded.</p>
4			<p>Purchase Order / LOA copies of Electric Buses supplied and the invoices of the Buses delivered to be supplied</p>		<p>Purchase Order / LOA copies of Electric Buses supplied by the bidder or its Parent / Associate companies has to be provided and the invoices of the Buses delivered to be supplied.</p>	<p>LOA / PO and the invoices copies of Electric Bus supplied by the tenderer / its partner / Joint Venture Company / its associate / its parent company should be submitted.</p>

SL No	Clause No./ specification SI No.	Clause	Existing Tender Parameters	Changes requested by M/s. VE Commercial Vehicles Ltd (Eicher)	Changes requested by M/s. Ashok Leyland Ltd	Reply
					Justification: We request authority to accept PO and invoices of the parent / associate company of the bidder which are executed in India.	
5	4.5.1		Only Vehicle Manufacturer having manufacturing facility in any of the States of India are eligible to participate in this tender. Vehicle Manufacturers should upload a certificate in this regard.		Only Vehicle Manufacturers or its subsidiaries having manufacturing facility in any of the states of India are eligible to participate in this tender. Justification: We request authority to allow bidders to show the manufacturing facility proof of parent / Associate company	The tenderer / its partner / Joint Venture Company / its associate / its parent company having Electric bus manufacturing facility in any of the states in India are eligible to participate in this tender.
6	2.14	Delivery	The successful tenderer shall start delivery of the offered model of Bus complying all		We request authority to provide 90 days time to deliver the	As per NIT

SL No	Clause No./ specification SI No.	Clause	Existing Tender Parameters	Changes requested by M/s. VE Commercial Vehicles Ltd (Eicher)	Changes requested by M/s. Ashok Leyland Ltd	Reply
			statutory requirements and specifications as per NIT within 60 days from the issuance of Purchase Order.		prototype. While entire lot of 50 buses will be delivered within 6 months time.	
7	5.42	Termination of Contract	Termination for default: The Tender Inviting Authority without prejudice to any other contractual rights and remedies available to it (the Tender Inviting Authority), may by written notice of default sent to the successful tenderer, terminate the contract in whole or in part, if the successful tenderer fails to execute the AMC or fails to perform any other contractual obligation(s) within the time period specified in the contract, or with in any extension thereof granted by the Tender Inviting Authority.		Termination for default: The Tender Inviting Authority without prejudice to any other contractual rights and remedies available to it (the Tender Inviting Authority), may by written notice of default sent to the successful tenderer, terminate the contract in whole or in part, if the successful tenderer fails to execute the AMC or fails to perform any other contractual obligation(s) within the time period specified in the contract, or with in any extension thereof granted by the Tender Inviting Authority only if the bidder fails to	No change.  If any dispute arises on the above, a Committee consisting of CMD KSRTC, Authorized Representative from the VM and the Secretary Transport, Govt. of Kerala will consider and decide. According to the decision of the above committee, the calculation of any penalty will be decided.

SL No	Clause No./ specification SI No.	Clause	Existing Parameters	Tender	Changes requested by M/s. VE Commercial Vehicles Ltd (Eicher)	Changes requested by M/s. Ashok Leyland Ltd	Reply
						service the same within 90 days of written intimation from authority	
8	8	GENERAL REQUIREMENT AND SPECIFICATION	Two Nos. of service doors as per CMVR, one entrance service door at rear (preferably between axles) having 1200 mm width or as per CMVR/AIS052 and another service door as exit door at front (ahead/ behind the front axle).			We request authority to accept +/- 50 mm tolerance for the same as 1175 mm is the standard size doors will be provided	As per NIT
9	Appendix - I (91)	Roof hatch	2 nos. to be provided (Front-1No- openable to front and Rear-1No- openable to rear)	Roof hatch not advised when HV batteries on roof			2 Nos. to be provided (Front-1No- openable to front and Rear-1No- openable to rear)
	Annexure - E (92)		3 nos. to be provided (Front-1No- openable to front and Rear-1No- openable to rear)				
10	4.1.7	Maximum time to attend to any Repair call	Immediately upon on information about breakdown, repair from concerned KSRTC official via email / phone and should be rectified within		24 hrs shall be required for major breakdown		For minor repairs, the vehicles are to be made roadworthy within 4 hours from the time of delivery of bus to the VM's



SL No	Clause No./ specification SI No.	Clause	Existing Tender Parameters	Changes requested by M/s. VE Commercial Vehicles Ltd (Eicher)	Changes requested by M/s. Ashok Leyland Ltd	Reply
			4 hours from the time of intimation.			workshop by KSRTC and for major repairs, the bus is to be made roadworthy within 24 hours from the time of delivery of bus to the VM's workshop by KSRTC. If any dispute arises on the above, a Committee consisting of CMD KSRTC, Authorized Representative from the VM and the Secretary Transport, Govt.of Kerala will consider and decide. According to the decision of the above committee, the calculation of any penalty will be decided.

**Tender Inviting Authority**

**KSRTC - SWIFT LTD**

(A Government of Kerala Undertaking)

**Anayara, Thiruvananthapuram, Kerala.**Telephone No: 0471-2465000, E-mail: [gm.ksrtcswift@gmail.com](mailto:gm.ksrtcswift@gmail.com)**GST No. 32AAJCK1376M1ZA****Purchase Order No. SRA1/001003/2021****Date: 24.12.2021**

To

M/s. PMI Electro Mobility Solutions Private Ltd

BB-11, EP Railway Colony,

Greater Kailash Enclave-II,

GK Encalve, Delhi - 110048.

Ph: 9311644655

e-mail: [amangarg@fotonpmi.com](mailto:amangarg@fotonpmi.com), [sanjaynagpal@fotonpmi.com](mailto:sanjaynagpal@fotonpmi.com)

Sub: Supply of Fully Built 9 Meter Non AC-Electric Bus with 25 Chargers and Annual Maintenance contract up to 7 years - Purchase Order- reg

Ref:1. NIT No. SRA1/001003/2021 dt. 07.09.2021

2. e-Tender ID: 2021\_KSRTC\_438224\_1 and Bid ID: 1115839

3. Our e-mail dtd: 29.11.2021

4. Your letter dtd: 02.12.2021

5. Letter of Intent of even No. dtd: 04.12.2021

6. Your e-mail dtd: 06.12.2021

Pursuant to the NIT referred (1) above, please supply the Fully Built 9 Meter Non AC-Electric Bus with 25 Chargers and Annual Maintenance contract up to 7 years in accordance with the details mentioned below and the General Terms and Conditions noted overleaf. The conditions specified in the Notice Inviting Tender, subsequent corrigendum and Letter of Intent issued referred above are part of this purchase order. This purchase order is further subject to amendments in terms of the technical sanctions to be accorded by the Govt. of Kerala Funding Agency, Kerala Infrastructure Investment Fund Board (KIIFB).

Sl No.	Item	Qty in Nos.	Basic Rate after Negotiation	GST amount in Rs.	End Rate including GST per Bus in Rs.
1	Fully Built 9 Meter Non AC-Electric Bus with 25 Chargers Warranty: 2 year / 2 lakh km which ever is earlier (as per Cl No. 3.1, 4.2, 4.10.2 of NIT) <b>Model: Foton PMI Regio</b>	50	88,03,796.19	4,40,189.81	92,43,986.00
2	Cost of Battery pack for propulsion will be for 3 years after the expiry of warranty (if required to be replaced after 5 years from the date of commissioning of the Bus ) as per Cl No. 3.1, 4.10.2 of NIT.	1	15,25,000.00	76,250.00	16,01,250.00
3	3rd Year AMC for Electric Bus (as per Cl No. 3.1, 4.1, 4.10.2 of NIT) rate per km per bus	50	3.91	0.70	4.61
4	4th Year AMC for Electric Bus (as per Cl No. 3.1, 4.1, 4.10.2 of NIT) rate per km per bus	50	4.30	0.77	5.07
5	5th Year AMC for Electric Bus (as per Cl No. 3.1, 4.1, 4.10.2 of NIT) rate per km per bus	50	4.75	0.86	5.61
6	6th Year AMC for Electric Bus (as per Cl No. 3.1, 4.1, 4.10.2 of NIT) rate per km per bus	50	5.38	0.97	6.35
7	7th Year AMC for Electric Bus (as per Cl No. 3.1, 4.1, 4.10.2 of NIT) rate per km per bus	50	5.87	1.06	6.93

### **GENERAL TERMS AND CONDITIONS**

1. The above referred items should be despatched / delivered to the Chairman and Managing Director, KSRTC – SWIFT Ltd Thiruvananthapuram through the General Manager, KSRTC – SWIFT Ltd, Thiruvananthapuram.
2. Two additional copies of the invoice should be sent along with the buses and one advance copy of invoice should be sent to the office of the Chairman and Managing Director KSRTC – SWIFT Ltd, Thiruvananthapuram.
3. Buses received without Copies of invoice are liable to be returned.
4. Supplies will not be accepted if they are not in conformance with the approved specifications given.
5. Separate invoices should be sent for each Purchase Order.
6. Copies of current tax Clearance Certificates should be forwarded along with the Invoice, failing which payment will not be made.
7. On receipt of the order, the duplicate copy of this order should be signed and returned to the Chairman and Managing Director as acknowledgement. All other communications regarding this order should be sent to the Chairman and Managing Director, KSRTC – SWIFT Ltd, Thiruvananthapuram.
8. In all correspondence and invoices the Order Number at the top should invariably be quoted.
9. The Chairman and Managing Director, KSRTC-SWIFT Ltd should be advised by the supplier about the probable date of arrival of the buses.
10. Payment will be made as per the terms of the cited tender and amendments made thereof.
11. If any of the articles imported free of duty by the firm for supply to the KSRTC-SWIFT Ltd is either rejected or not supplied the firm shall pay to the KSRTC-SWIFT Ltd the duty as well as landing and clearing charges, if applicable.
12. If the firm fails to supply the item or fails to replace the item rejected by the Chairman and Managing Director, KSRTC-SWIFT Ltd or any person on his behalf within such time as stipulated in the order, the Chairman and Managing Director shall be entitled to purchase the item from any other source and at such price as the Chairman and Managing Director in his sole discretion thinks fit and if such price shall exceed the rate shown in the schedule the firm will be responsible for the difference between the price at which such stores have been purchased by him and the price calculated at the rates set out in schedule.
13. In the case of non delivery or delayed delivery the Chairman and Managing Director, KSRTC-SWIFT Ltd reserves to himself the right to impose such penalty as per the tender conditions.
14. If supplies effected do not conform to the specifications given or sample approved for which payments drawn in full or in part by the supplier, it should be either replaced with good ones or made good the loss to the Corporation within 10 days on receipt of intimation. Shortages, Damages etc. should also be made good within the time stipulated.
15. Bank charges if any, to be borne by the supplier.
16. All disputes arising out of this contract will be settled within the jurisdiction of the Courts in Thiruvananthapuram.

Delivery \* To the General Manager, KSRTC-SWIFT Ltd, Thiruvananthapuram.

Warranty Period \* The warranty period for the Fully Built 9 Meter Non AC-Electric Bus with 25 Chargers is 2 years or 2,00,000 km whichever is earlier from the date of commissioning of buses as per Clause No.4.1.2 & 4.2 of NIT.

Supply Schedule \* Supply of entire quantity to be completed within six Months including proto type inspection from the date of Purchase Order. (3.1 of NIT)

Payment Installments (as per Clause No.4.1.6 of NIT) \* 1. On request of the bidder after the issue of Purchase Order, 20 % of the payment will be made in advance against the submission of BG @110%.  
2. 40% of the Payment will be made after 30 days and within 45 days of delivery and acceptance at the delivery point specified in the purchase Order.  
3. Balance 40% will be made after the successful operation of the bus for a period of three months and within 120 days from the date of commissioning.

Payment for AMC Charges \* As per Clause No. 5.28.1 of NIT.

AMC Terms \* As per Clause No. 4.1.3, 4.1.4, 4.1.9 & 4.3 of NIT.

Penalty \* Applicable as per Clause No 5.30.11 and 5.30.12 of NIT.

Deployment of Co-ordinator (as per Clause No. 4.5.20) \* Deploy one part time service coordinator for maintenance and repair of vehicle as per the warranty and AMC condition and willing to setup sufficient service at Thiruvananthapuram, to coordinate the maintenance and advice KSRTC on the preventive maintenance system of the Fully Built Electric Bus.

Liquidated damages for supply performance } Applicable as per clause no.5.49 of NIT.

Maintenance and repair of buses under warranty period. } Applicable as per Clause No. 5.30.5 of NIT.

Training \* Applicable as per Clause No. 5.31.33 of NIT.

### **AGREEMENT & SECURITY DEPOSIT**

An agreement has to be executed by you in the prescribed form in not less than Rs.200/- Indian Stamp Paper after furnishing a security deposit equal to 5 % of the total cost of 50 Nos. of Fully Built 9 Meter Non AC-Electric Bus with 25 Chargers and Annual Maintenance contract up to 7 years as specified the LOI dated: 04.12.2021. Payment on account of supplies against this order is liable to be withheld until the agreement is executed and security deposit is furnished

### **Purchase Sanctioned by the Board of Directors**

Ref No : Letter No : TRANS-A1/135/2020-TRANS Dtd : 30.09.2020

CE (P & CW) is requested to arrange all infrastructure facilities required for charging the electric bus specified in NIT and Corrigendum / Addendum as per Clause No. 2.13.

Copy to : Payment Cell / IA/ RAO/ ACPS (SV & IC) / SO (C/S)/ASK/ME(W)CW, ED (M & W)/ ED(O) CE (P & CW), (S-&F)/ SF & File

Please see instructions on the reverse.

To be despatched through reliable Lorry Transports having their own Office at the destination.

**CHAIRMAN & MANAGING DIRECTOR**

1910

C-2/10/21



**KERALA STATE ROAD TRANSPORT CORPORATION**

**TRANSPORT BHAVAN, EAST FORT**

**THIRUVANTHAPURAM 695023**

**E- TENDER DOCUMENT**

**FOR**

**SUPPLY OF FULLY BUILT 9 METER NON AC-ELECTRIC BUS**

**(50 NOS) WITH 25 CHARGERS**

**(TENDER NO: SRA1/001003/2021 dt: 07.09.2021 )**

For details;

**[www.etenders.kerala.gov.in](http://www.etenders.kerala.gov.in) / [www.keralartc.com](http://www.keralartc.com)**

**E-mail: [sr@kerala.gov.in](mailto:sr@kerala.gov.in)**

## INDEX

<b>Sl. NO.</b>	<b>DESCRIPTION</b>	<b>PAGE NO.</b>
1	NOTICE INVITING TENDER	4
2	SECTION - I INTRODUCTION	8
3	SECTION - II SCOPE AND DISCRIPTION OF CONTRACT	11
4	SECTION - III DETAILS OF ITEM TENDERED	16
5	SECTION - IV SPECIFIC CONDITIONS OF CONTRACT	17
6	SECTION - V GENERAL CONDITION OF TENDER / CONTRACT	29
7	APPENDIX - I SPECIFICATIONS OF FULLY BUILT ELECTRIC BUS	79
8	APPENDIX- II SAMPLE PRICE EVALUATION	89
9	ANNEXURE -A GENERAL INFORMATION ABOUT THE TENDERER	91
10	ANNEXURE -B DECLERATION FORM	93
11	ANNEXURE - C OFFER FORM	94
12	ANNEXURE -D PERFORMANCE EVALUATION SHEET	95
13	ANNEXURE -E SPECIFICATIONS COMPLIANCE STATUS OF FULLY BUILT ELECTRIC BUS	96
14	ANNEXURE - F RATE FIRMNESS	111
15	ANNEXURE - G LOWER RATE DECLARATION	112
16	ANNEXURE - H GENERAL TERMS AND CONDITIONS	113

17	ANNEXURE - I	ANTI BLACK LISTING CERTIFICATE	116
18	ANNEXURE - J	POWER OF ATTORNEY	117
19	ANNEXURE - K	RANGE IN ELECTRIC BUS	118
20	ANNEXURE - L	SUPPLY OF BATTERY PACK FOR PROPULSION	119
21	ANNEXURE - M	UNDERTAKING	120
22	ANNEXURE - N	UNDERTAKING	121



**KERALA STATE ROAD TRANSPORT CORPORATION  
TRANSPORT BHAVAN, EAST FORT  
THIRUVANTHAPURAM 695023**

**Ph: 0471-2471011**

**website: [www.keralartc.com](http://www.keralartc.com) Email: [sr@kerala.gov.in](mailto:sr@kerala.gov.in)**

**e-TENDER NOTICE**

SI.No	ITEM	DESCRIPTION	QUANTITY (NUMBERS)
1	<b>FULLY BUILT 9 METER NON AC ELECTRIC BUS with Chargers</b>	<p><b>SUPPLY OF FULLY BUILT 9 METER NON AC ELECTRIC BUSES</b></p> <p>WITH 25 CHARGERS AND WITH WARRANTY FOR 2 YEARS or 2Lakh KMs AND ANNUAL MAINTENANCE CONTRACT UP TO 5 YEARS (AFTER THE WARRANTY PERIOD AS PER clause 4.1.4 &amp; 4.1.9)</p> <p>Buses should Comply with;</p> <p>a) CMVR and KMVR requirements b) Certificate issued by ARAI, ICAT or any other Competent Authority. c) Type approval certificate by any authorized agency in CMVR 126 d) Compliance to strength of super structure as per CMVR/AIS052 e) Compliance to Bus Body Code AIS 052, Type I and with ITS AIS: 140 IRNSS Based VLT Device. f) Compliance of Flammability requirements as per IS:15061:2002. g) Battery pack rating and energy/power requirements as per AIS 053</p> <p>For Specification see Appendix -I</p>	50 Nos.



<b>SI NO</b>	<b>Particulars</b>	<b>Date and time</b>
1	Date of release of tender	07.09.2021
2	Online tender submission Start Date	07.09.2021
3	Online tender submission End Date	20.09.2021
4	Date of online Technical bid opening	22.09.2021
5	Date of opening of the price bid	Will be informed to the qualified bidders after technical-bid evaluation

1.	Tender No.	SRA1/001003/2021
2.	Tender Fees (Non Refundable)	Rs.28000/- (Rs.25000+GST@12%) (Rupees Twenty Eight thousand only)
3.	Earnest Money Deposit	Rs.5,00,000 /- (Rupees Five Lakh only)
4.	Performance Security for supply (For successful tenderer)	5% of the total value as per offered price for the buses
5.	Performance security for AMC	The security deposit is calculated for 5% of the total value of the AMC charges. (Security Deposit = Highest AMC charge offered X 1,00,000 X No. of allotted buses X No. of years of AMC))
6.	e-Tender site	<a href="http://www.e-tenders.kerala.gov.in">www.e-tenders.kerala.gov.in</a>
7.	e-mail for communication	<a href="mailto:sr@kerala.gov.in">sr@kerala.gov.in</a>

Sd/-

**BIJU PRABHAKAR IAS**

Chairman and Managing Director,  
KSRTC, Tender Inviting Authority

## **SECTION I**

### **INTRODUCTION**

**1.1.** The Kerala State Road Transport Corporation is one of the age-old state-run transport corporation in India and is headquartered at Trivandrum. The State Motor Service was inaugurated by His Highness Sree Chithira thirunal on 20.2.1938. His Highness and his kin were the first passengers of the inauguration trip and Mr. Salter was himself the driver to that bus. This bus along with the 33 other buses brought on road driving through the Kawdiar Square was seen to be a beautiful attraction.

Following the enactment of RTC act in 1950 the Govt of Kerala formulated KSRTC in 1965. KSRTC have a fleet strength of 6200 buses. At present 30 lakh passengers are travelling in KSRTC a bus daily, which connects every nook and corner of state and major destinations in south India.

**1.2** The Chief Office of KSRTC is located at Transport Bhavan East Fort Thiruvananthapuram. The operations of the corporation are controlled from three zonal offices located at Thiruvananthapuram (South zone), Ernakulam (Central zone) and Kozhikode (North zone).

#### **Our commitments**

- Provide more comfortable and hygienic service at affordable price.
- Strict adherence to traffic rules and punctuality in service operation
- Continuous up gradation of technology and development of human resource through regular training programmes.

- Provide grate significant to safety of our people by repeatedly ensuring the fitness of our vehicles.
- Provide every possible assistance to public by the officers in the Head Office, Officers in our units and through our control room functioning round the clock.

### **1.3 Quality Policy**

We, at KSRTC are committed to provide safe and comfortable journey at affordable fare to every citizen. To achieve this goal, we plan and implement strict quality control management and continual improvement by way of releasing more new buses on road, continuous training to employees including drivers and conductors with special emphasis on maintenance of vehicles, accidents avoidance, fuel efficiency, neatness, proper behavior towards public and application of modern technology.

- 1.4** KSRTC owns around 6200 Nos. of buses and operates average 5500 schedules every day.
- 1.5** KSRTC intend to introduce 50 Nos. of Non Ac Electric buses with 2 year / 2 lakh km warranty and AMC upto 5 years as per clause 4.1.4 & 4.1.9, confirming to the prevailing ARAI, CMVR and KMVR rules which is applicable
- 1.6** In this tender, the lowest price is not the sole criteria for selection. The two bid system, which is followed, has been designed to eliminate those which do not match the technical specifications / Qualifications or not having the proven experience and to eliminate firms that do not have the financial or technical capability to design, manufacture, supply, testing and commissioning of Fully Built Non Ac Electric Bus as per CMVR.
- 1.7** Transparency: It is assured that the KSRTC will uphold highest level of transparency in the procurements being made. The decisions/results at the three stages of the

tender process will be published on our website and e-tender portal for enabling the prospective offerers to submit their remarks/objections. Canvassing or involving in fraudulent practices in any form, at any stage, will lead to automatic disqualification of the tenderers. Visits to the offices/officers without written permission of the CMD will not be entertained. Phone calls to officers during the tender process will not be entertained. All queries/clarifications on the tender documents/process/specifications etc shall only be through the email ID given.

- 1.8** KSRTC is gearing up to reduce cost to make the Public Transport affordable to common man.

Looking forward for a long standing relation with you

Best wishes,

Sd/-

**BIJU PRABHAKAR IAS**

Chairman and Managing Director,  
KSRTC (Tender Inviting Authority)

Date:07.09.2021

## SECTION II

### SCOPE AND DESCRIPTION OF CONTRACT

#### 2.1 General Definitions

**2.1.1 Government** means Government of Kerala, represented by the Secretary to Transport Department, Government of Kerala.

**2.1.2 Purchase Committee** is a Committee of officers authorized by the Board of Directors to decide on the purchase of the stores and equipments procured by the KSRTC.

**2.1.3 Tender Inviting Authority** is the Chairman and Managing Director of the KSRTC, who finalize tenders and ensure supply and Annual Maintenance Contract of the buses procured under this tender document.

**2.1.4 Blacklisting/debarring** – Manufacturer should not have been black listed by any PSU/Corporation/Board or State/Central Government in India. In this regard an **affidavit (Annexure -I) duly attested by the notary must be submitted** by the bidder (**Mandatory**). The declaration should be furnished in **Indian stamp paper worth Rs.200/-** duly signed and stamped by the bidder with full address and date should be uploaded. The original declaration **in Annexure -I** in hard form should be submitted to this office on or before the time of opening of tender.

#### 2.2 Scope

The tenders are invited for manufacturing supply and maintenance of 50 Nos. Fully Built Non AC Electric Buses as per CMVR. The bidder shall offer the warranty for a period of 2years or 2,00,000 Kms which ever is earlier and also the bidder shall be willing to enter Annual Maintenance Contract (AMC) for a period of five years after the expiry of the warranty period as per clause 4.1.4 & 4.1.9. KSRTC.

The contract covers manufacturing, supply and maintenance (AMC as per clause 4.1.4 & 4.1.9) of Fully Built Non-AC Electric Bus with chargers for operation in Thirvananthapuram City. The bus shall be energy efficient,

environmentally friendly, safe and secured for transportation of passengers besides the following main attributes amongst others:

- 2.2.1.1** Ergonomically designed driver's work area
  - 2.2.1.2** Ease of repair and maintenance
  - 2.2.1.3** Aesthetically designed interiors and exteriors
  - 2.2.1.4** Ease of boarding and alighting for all passengers
  - 2.2.1.5** Safety, reliability and durability
  - 2.2.1.6** Energy Efficient
  - 2.2.1.7** Passenger comfort
- 2.3** The Bidder shall comply with all applicable Central, State and local laws (including Acts, Rules and Regulations).
- 2.4** The ELECTRIC bus shall meet all applicable Central Motor Vehicles Rules, 1989 (hereinafter referred to as "CMVR"), norms for safety and emissions applicable on the date of manufacture and Bus Code AIS 052 and any revisions thereof [hereinafter called Bus Code]
- 2.5** Where there is conflict between the requirement as per any applicable law in force and the requirement emanating from these specifications whichever of these two is of superior/ higher standard shall prevail. Also, any specifications superior to the ones set out as Minimum Technical Specifications shall meet requirements of the contract.
- 2.6** The bus design shall be suitable for minimum daily operation of 12 to 14 hours under all load, terrains and actual operating conditions existing in Kerala as per CMVR & KMVR applicable for City Operations. Tyre rating should be such that it meets the requirement of peak hour loading due to high level of occupancy.
- 2.7** The bus design shall be eco-friendly, energy efficient, safe, and with zero emissions, subject to meeting additional requirement, if any further standards as imposed by law and further improved standard as applicable on the date of manufacture. Bus and

complete aggregates shall comply with the rules and regulation with respect to safety and emission notified and mandated time to time by the government and applicable at the time of the delivery and the registration of the buses. To ensure compliance, type approval certificate from the approved test agency under CMVR will be necessary for the complete bus for the applicable rules, regulation and specifications laid herein.

- 2.8** Detailed drawings of bus structure along with complete dimensions, its components, seats, interior/ exterior fittings, electrical systems, wiring diagrams, wiring harness and other accessories along with complete details of materials used, their specification, manufacturing tolerances, complete catalogue etc. shall be provided to the Purchaser by the bidder.
- 2.9** On expiration of the warranty and AMC period, the successful tenderer shall be willing to provide after sales support including but not limited to supply of spares for an additional period of minimum 15 years or till the supplied buses are in use subject to a maximum period of 20 years as per existing rules/as amended from time to time. The period to be decided by the tender Inviting Authority and shall be binding.
- 2.10** General appearance, seating layout and structural details of roof, floor, sides, front and rear show and driver's cab shall be provided by the Bidder along with their bids.
- 2.11** Any other provisions/ fitments required for safe and efficient operation and/ or for fulfilling statutory requirements shall be provided in the offered bus.
- 2.12** For attending major works, the bidder should make arrangements to transfer the vehicles to their workshop during the warranty / AMC period, if required, using their own resources such as driver etc. KSRTC shall provide driver for transferring the bus to the nearest workshop of the VM as and when required for attending any major repairs as recommended by the VM. Also, space for carrying out the maintenance work can be provided at KSRTC depot(s).



**2.13** The bidder shall supply 25 Nos. of chargers with panel board for charging the Electric bus and arrange installation of the same at the destination specified. KSRTC shall provide electric supply input up to panel board of the chargers.

**2.14 COLOUR SCHEME and Prototype Inspection**

The Colour shade for interior and exterior, logo, graphics, information details etc., shall be provided by KSRTC at the time of issue of Purchase Order. The successful tenderer shall start delivery of the offered model of Bus complying all statutory requirements and specifications as per NIT within 60 days from the issuance of Purchase Order. The officers of KSRTC shall have the right to conduct inspection of the buses at any stage of the construction / operation. The prototype model shall meet all the major specifications such as HP, No. of Cylinders, Floor height, Chassis specifications, Seating capacity, overall length etc. After the issuance of Purchase Order inspection at any stage before the supply will be carried out by the technical officers of KSRTC to ascertain its conformance to the performance standards, specifications and dimensions and requirements as per this NIT. The delivery of the buses shall be effected only after getting the approval for prototype from KSRTC.

**2.14 CERTIFICATION:** The bidder should obtain the required certification of the model of the fully built ELECTRIC bus from the approved certification agency as per CMVR and KMVR.

**2.15** The responsibility of the successful bidder includes SUPPLY OF 50 Nos of FULLY BUILT NON AC ELECTRIC BUSES with chargers and providing of Annual Maintenance Contract as per clause 4.1.4 & 4.1.9 for five years after the expiry of 2 years warranty period.

**2.16** The bidder has to properly maintain all records of data pertaining to the maintenance (AMC) of the vehicle as per the recommendations of vehicle manufacturers and as per the

requirement of KSRTC.

**2.17 DATA SECURITY/CONFIDENTIALITY:** All the data pertaining to maintenance of these vehicles shall be stored securely keeping the confidentiality. These data should not be shared in full or part with any other agencies.

**2.18 Data Sharing -** All the maintenance data shall be shared to KSRTC.

SECTION – III  
DETAILS OF ITEM TENDERED

**3.1 Item Tendered**

Description of Work	Annual Maintenance Contract (AMC)	Tendered Quantity (Nos.)	Delivery Period
<p><b>SUPPLY OF FULLY BUILT 9 METER NON AC ELECTRIC BUSES</b> WITH 25 CHARGERS AND WITH WARRANTY FOR 2 YEARS AND ANNUAL MAINTENANCE AFTER THE EXPIRY OF WARRANTY PERIOD</p> <p>Buses should Comply with;</p> <p>a) CMVR and KMVR requirements b) Certificate issued by ARAI, iCAT or any other Competent Authority. c) Type approval certificate by any authorized agency in CMVR 126 d) Compliance to strength of super structure as per CMVR/AIS052 e) Compliance to Bus Body Code AIS 052, Type I and with ITS AIS: 140 IRNSS Based VLT Device. f) Compliance of Flammability requirements as per IS:15061:2002. g) Battery pack rating and energy/power requirements as per AIS 053</p> <p><b>For Specification see Appendix – I</b></p>	<p>Five years after the expiry of warranty (2 yrs/ 2 Lakh Kms) period. AMC rate / Km to be quoted excluding the Consumables &amp; Spares for routine preventive maintenance, Energy charges, tyres, accident related work, routine CF repair work and washing charges. (ref.clause 4.1.4 &amp; 4.1.9) AMC of battery pack for propulsion will be for 3 years after the expiry of warranty (2years/2 Lakh Kms) period</p>	50 Nos.	Supply of entire quantity to be completed within six Months from the date of Purchase Order.

**3.2 Technical specifications:**

The detailed technical specifications and other quality parameters of the above item is contained in Appendix - I

SECTION-IV

**SPECIFIC CONDITIONS OF CONTRACT**

**4.1 Time Limits prescribed**

<u>Sl. No</u>	<u>Activity</u>	<u>Time Limit</u>
<b>4.1.1.</b>	Supply & Delivery period	As mentioned in Section 3.1
<b>4.1.2.</b>	Warranty period for the whole Bus including Battery Pack	2 Years or 2,00,000 kms which ever is earlier.
<b>4.1.3.</b>	AMC period (taken for evaluation)	Five years after the expiry of warranty period @ 1,00,000 km per bus per year (1,00,000 KM taken is only for evaluation Purpose)  For the Battery Pack (for Propulsion) should have Three Years after the expiry of warranty period of 2 years/2 Lakh Kms

<p><b>4.1.4</b></p>	<p>AMC covers</p>	<p>AMC covers maintenance, repairs and replacement of all components related to the Batteries, Battery Management System, Cooling Systems (Bus Batteries, Motors), Traction and other Motors, Drive Controller and Regenerative Braking, Electronics &amp; High Voltage Electrical Systems, Chargers, On-Board Diagnostics &amp; Communications, excluding preventive and routine maintenance of Suspension, wheel maintenance etc.(which can be done by trained mechanics of KSRTC under the supervision of VM), Tyres, Accident repairs and routine CF repairs, bus washing and energy charges etc will be borne by KSRTC.</p> <p>VM should ensure timely training to the KSRTC Mechanics and Staff for executing the preventive &amp; routine maintenance by utilizing the available facilities in KSRTC for these buses.</p>
<p><b>4.1.5.</b></p>	<p>Submission of Performance Security and entering into contract</p>	<p>Within 15 days from the date of issuance of LOA / Purchase Order.</p>

<p><b>4.1.6</b></p>	<p>Payment Installments</p>	<ol style="list-style-type: none"> <li>1. On request of the bidder after the issue of Purchase Order, 20 % of the payment will be made in advance against the submission of BG @110%.</li> <li>2. 40% of the Payment will be made after 30 days and within 45 days of delivery and acceptance at the delivery point specified in the purchase order</li> <li>3. Balance 40% will be made after the successful operation of the bus for a period of three months and within 120 days from the date of commissioning.</li> </ol>
<p><b>4.1.7.</b></p>	<p>Maximum time to attend to any Repair call</p>	<p>Immediately upon on information about breakdown, repair from concerned KSRTC official via email / phone and should be rectified within 4 hours from the time of intimation.</p>

4.1.8.	Over all uptime in a quarter / year	97% in the first two years excluding 10 days per year (355 days) for scheduled maintenance and there after 0.5% decrease in every year
4.1.9	Frequency of maintenance during Warranty /AMC	KSRTC shall deploy sufficient staff for attending the daily check up and running repair as recommended by the vehicle manufacturer for the components under the scope of KSRTC as per 4.1.4. For the components covered under AMC, Vehicle Manufacturer shall deploy sufficient staff for attending daily check up, running repair and all the scheduled maintenance. VM shall also ensure sufficient staff for attending break down and repair call at any time for the complete service operation of the day.

**4.2 Warranty:-** The whole vehicle including the battery pack (vehicle propulsion) and chargers should have warranty for 2 years or 2 Lakh KM , which ever is earlier. The warranty shall cover battery pack for propulsion, electrical system, traction motor, all kinds of driveline system components including all kinds of consumables for the components covered under AMC, required to run the bus. Warranty will not cover accident repairs. Routine CF procurement will be the responsibility of the KSRTC. The KSRTC shall bear the CF test fee, road tax and insurance charge for bus and other

statutory charge for bus and other statutory testing fees. No delays shall be entertained for maintenance services and other jobs for setting MVI / fitness certificate. The bidder shall be responsible to prepare / make the bus fit for inspection and obtaining statutory certificates from the statutory authorities in time. However the structural defects in body such as loosening of paneling rivets body rivets, cracks in body components etc due to regular use should be covered under warranty and AMC. No other payment will be made during the warranty period (2 Years/ 2 Lakh Kms, which ever is earlier)

**4.3 AMC:-** The bus and chargers should have 5 (Five) years of AMC as per clause 4.1.4 & 4.1.9 after the expiry of warranty period, that is from the 3<sup>rd</sup> year till the completion of 7<sup>th</sup> year.

**4.3.1 AMC of Battery pack for vehicle propulsion:** - The battery pack for vehicle propulsion is included in AMC. The battery pack should have 3 (Three) years of AMC after the expiry of warranty period (2 Years/2 Lakh KMs) , that is from the 3<sup>rd</sup> year till 5<sup>th</sup> year.

**4.4 Procurement of battery: -**

KSRTC/KSRTC-SWIFT will procure the battery pack (vehicle propulsion) from the successful bidder if required after warranty and AMC period, that is after 5 Years. The price of battery pack (for Vehicle propulsion) required for the bus has to be quoted separately in the tender. Whenever there is a requirement of battery pack (for Vehicle propulsion) in future for replacement due to failure / under performance, the selected bidder will have to provide battery pack (for Vehicle propulsion) at the quoted rate or at the rate prevailing in the market at the time of requirement which ever is lower. The battery pack so procured by KSRTC-SWIFT should also have a warranty of 2 Years/2 Lakh Kilometer which ever is earlier. The KSRTC-SWIFT will have the absolute option to procure Battery pack of suitable specification as recommended by the vehicle manufacturer from other



sources and if the rates are lesser than the rate quoted by the vehicle manufacturer and installation of such battery pack should not be detrimental to the AMC already agreed the vehicle manufacturer. The successful bidder shall be ready to do necessary adaptation works in the Bus Electrical system to accommodate the battery pack procured by KSRTC on its own. This action shall not absolve any of the contractual obligations of the successful bidder in the tender in any manner.

#### **4.5 Pre- Qualification of Tenderers:**

**4.5.1** Only Vehicle Manufacturers having manufacturing facility in any of the States of India are eligible to participate in this tender. Vehicle Manufacturers should upload a certificate in this regard.

**4.5.2** The tenderer should be in the business of manufacturing and supply of ELECTRIC buses for the last one year within the country. Notarized documentary proofs shall be uploaded.

**4.5.3** Documents to prove that the Fully Built Electric Bus offered are having the approval from Competent Certifying Authority. Scanned copy should be uploaded. If at any time of submission of tender of the Fully Built Electric Bus variant tendered by the KSRTC by the bidder is not homologated and certified in India and all certifications should be obtained and produced to KSRTC before the time of delivery of buses. In the event, they fail to submit the homologation certificates as per CMVR in the stipulated time frame, the offer of the model / brand will be liable and out rightly rejected following due procedures. The Vehicle manufacturer shall produce an affidavit to this effect in Indian Stamp Paper worth Rs.200/- as per **Annexure-M** duly attested by notary to be uploaded (mandatory). The documents in original shall be produced by the successful bidder after the opening of the technical bid.

- 4.5.4** This Notice Inviting Tender (all pages) should be signed and stamped by the bidder should be scanned and uploaded.
- 4.5.5** An undertaking to the effect that the type approval as per CMVR and certificates from STA, Thiruvananthapuram etc will be provided at the time of delivery. (Scanned copy should be uploaded)
- 4.5.6** Specifications of fully built ELECTRIC bus as per **Appendix – I** duly signed and stamped by the bidder with full address and date (Scanned copy should be uploaded).
- 4.5.7** The bidder should upload the "General Information about the tenderer" as per **Annexure – A**
- 4.5.8** The bidder should upload the Declaration Form about the tender as per **Annexure – B**
- 4.5.9** The bidder should upload the Offer Form about the tender as per **Annexure – C**
- 4.5.10** The tenderer or its subsidiary company (with documentary proof) should have supplied/leased minimum 10 nos. of ELECTRIC buses having overall length not less than 8 mtrs in India during last 2 (Two) years and those buses shall be performing satisfactorily as on date. Also the vehicles supplied to any STUs in India for hiring on wet lease and vehicles supplied on GCC contracts shall be considered based on the confirmation from the concerned STU. The bidder should upload sufficient proof of supply of buses (Electric buses) such as tax invoice/agreement to confirm the supply/lease of 10 Nos. of ELECTRIC buses. The tenderer shall furnish the certificate from the purchaser for satisfactory performance of the ELECTRIC buses supplied along with **Annexure – D** to be uploaded.
- 4.5.11** Specification Comparison Table as per **Annexure-E** to be filled signed and stamped by the bidder with full address and date should be uploaded.

- 4.5.12** A Certificate in **Annexure – F** regarding the firmness of rate throughout the period of supply of Buses as per purchase order schedule should be signed and stamped by the bidder with full address and date should be uploaded.
- 4.5.13** Declaration as per **Annexure – G** (Non supply to others at lower rates) to be furnished in an Indian Stamp Paper of Rs.200/-, duly signed and stamped by the bidder with full address and date should be uploaded. The original declaration should be submitted in hard form to this office on or before the time of opening of Tender.
- 4.5.14** General Terms and Conditions as per **Annexure– H** duly signed and stamped by the bidder with full address and date (Scanned copy should be uploaded).
- 4.5.15** Tenderers who have been blacklisted/ debarred by Tender Inviting Authority or blacklisted / debarred by any State Government or Central Government department/Organization should not participate in the tender during the period of blacklisting. (Affidavit as per format in **Annexure - I** should be submitted along with the technical bid)
- 4.5.16** The bidder should upload the Power of Attorney as per **Annexure-J**
- 4.5.17** The bidder should upload the Declaration Form about Range in Single Charging as per **Annexure – K**
- 4.5.18** The bidder should upload the Declaration Form about Supply of Battery Pack For Propulsion as per **Annexure – L**
- 4.5.19** The bidder should upload the Declaration Form as per **Annexure – N**
- 4.5.20** The successful bidder should deploy one part time service coordinator for maintenance and repair of vehicle as per the warranty and AMC condition and willing to setup sufficient service at Thiruvananthapuram, to coordinate the maintenance and advice KSRTC on the preventive maintenance system of the

Fully Built Electric Bus. The space for preventive maintenance checkup will be given at KSRTC Central Works, Pappanamcode, Thiruvananthapuram.

**4.5.21** Tenderers who are ready to deploy sufficient number of staff for maintenance and repair of vehicle as per the AMC condition and willing to setup sufficient service facility in the deployment area (Southern districts of Kerala) and have the capability to attend repairs of these ELECTRIC Buses within the time mentioned as per clause 4.1.7 anywhere in the deployment area in Kerala. Tenderers should provide stand by aggregates or replace the faulty equipment as per clause 4.1.9. The tenderers shall have the capability to ensure the uptime mentioned in clause 4.1.8. (Documents indicating the details of after sale service facility shall be submitted.)

**4.5.22** The bidder who is not willing to accept the AMC policy of the tender inviting authority is not eligible to participate in this tender

**4.5.23** The successful bidder should enter into agreement with KSRTC in the prescribed format provided by KSRTC

**4.5.24** Bidders should remit the required Tender Fee and Earnest Money Deposit (EMD) in 'Online mode' through SBI/NEFT, as per the Notice Inviting Tender. No exemption in the case of EMD and Tender Fee. Bidders should ensure and convince themselves that the online payments made by them have been successfully transferred. KSRTC shall under no circumstances be responsible for failed transaction of the payments due to non-compliance of any online banking procedure and consequent rejection of tender.

**4.5.25 Litigation:** Bidders who have been either blacklisted by KSRTC or have/had legal litigations will not be eligible for consideration.

**4.6 Specifications of Fully Built Electric Buses :-**

**4.6.1** Specifications are given in detail in Appendix – I

**4.7 TENDER PROCESS:**

The tender evaluation will be undertaken in three rounds.

**Round 1-** Opening of technical bid documents /  
Evaluation.

**Round 2** – Proto type evaluation.

**Round 3** – Opening of Price Bid.

**4.7.1 Round 1- Opening of technical bid documents / Technical evaluation.**

**4.7.1.1** The documents submitted shall be opened at the time and date mentioned. The prospective bidders or their authorized representatives can present if required by them.

**4.7.1.2** The format for submission of the technical bid is as per annexures and submission in any other format or absence of requisite information will lead to rejection of bids in the round 1 evaluation itself. The prospective bidders are advised to submit all information and supporting documents that are required to prove their competency and claims for technical evaluation.

**4.7.1.3** The commercial terms and documents submitted as part of the bids shall be scrutinized by a Bid Evaluation Committee constituted by the Tender Inviting Authority.

**4.7.1.4** The Tender Inviting Authority may call for additional documents/clarifications through e-tender portal.

**4.7.1.5** The list of those who come out of the evaluation of the documents successfully as well as those rejected (with reasons for rejections) will be published on the website of KSRTC ([www.keralartc.com](http://www.keralartc.com)) and objections/remarks against the list will be invited. The objections /remarks received before the date and time specified in the notice will be considered by the concerned committee and the final list of successful bidders of round 1 will be published.

**4.8** The successful bidder in Round -I (with reasons for rejections) will be published on the website of KSRTC ([www.keralartc.com](http://www.keralartc.com)) and in the e-tender portal [www.e-tender.kerala.gov.in](http://www.e-tender.kerala.gov.in)

**4.9 Round 2 – Proto type evaluation:-** The bidder has to submit a notarized undertaking in the regard that prototype model meets all the critical specifications such as Range, Energy Consumption, Floor height, Seating Capacity, Overall Length etc. The prototype bus shall conform to all statutory requirements and type approvals have the legal approval for conducting the trial run, if required. The undertaking is to be mentioned with the statement that the offered bus is having the same specification as per the offered model in the tender and that it meets all the specifications and other parameters mentioned in the Tender Notice. If required by KSRTC, bidders have to demonstrate the prototype bus of the basic version of the offered model at the desired location of the bidder before the technical committee constituted by KSRTC.

**4.10 Round 3 – Opening of Price Bid.**

**4.10.1** The bidders who are qualified in round 1 and 2 shall be considered for Round -3. The price quoted shall be all inclusive of the cost of supply of buses with chargers, battery price, AMC charges etc contained in the scope and specific conditions of this tender document. There shall not be more than one Model/Type offer in the tender. Offering more than one model/Type shall make the bid invalid.

**4.10.2** The price quoted shall be inclusive of the following:

- The Cost of the Bus with Chargers, Battery Pack for propulsion with 2 Year/2 Lakh km Warranty from the date of registration. The warranty shall cover battery pack for propulsion, electrical system, traction motor, all kinds of driveline system components including all kinds of consumables for the components covered

under AMC as per 4.1.4 & 4.1.9, required to run the bus.

- The AMC Charges for 5 Years after the expiry of warranty period (as per clause 4.1.4 & 4.1.9) for the bus with chargers ( that is from 3<sup>rd</sup> year to 7<sup>th</sup> year) and the AMC charges for 3 years for the battery pack for propulsion after the expiry of warranty period ( that is from 3<sup>rd</sup> year to 5<sup>th</sup> year).

**4.10.3** The cost of battery pack with 2 Year/2 Lakh Kms, if required to be replaced after the expiry of AMC (that is after the 5<sup>th</sup> year), if purchased from the vehicle manufacturer.

**4.10.4** The method of evaluation of the price bid is mentioned in Appendix II. An illustration of the method of arriving at the L1 rate/bidder is also shown in Appendix II.

**4.10.5** The list of those who come out of the evaluation of the Price bids successfully as well as those rejected (with reasons for rejections) will be published on the website of KSRTC ([www.keralartc.com](http://www.keralartc.com)) and in the e-tender portal [www.e-tender.kerala.gov.in](http://www.e-tender.kerala.gov.in)

**4.10.6** The successful bidder has to furnish performance security within 15 days from the date of issuance of purchase order.

## SECTION V

### GENERAL CONDITION OF TENDER / CONTRACT

#### 5.1 Contents of the Tender Document:

This 'Tender Document' contains the following:

- a. Introduction (Section I)
- b. Scope and Description of Contract (Section II)
- c. Details of Equipments tendered (Section III)
- d. Specific Conditions of Contract (Section IV)
- e. General Conditions of Contract (Section V)
- f. Appendix- documents supplied by the tender inviting authority
- g. Annexures-formats for submission of tenders by the tenderers

#### 5.2 Conditions of Tender / Contract

##### 5.2.1 Tender Document:

The detailed technical specifications and terms and conditions governing the supply and the after sales service of the equipments tendered are contained in this "Tender Document".

##### 5.2.2 The tender document is to be downloaded from website [www.etenders.kerala.gov.in/www.keralartctender.com](http://www.etenders.kerala.gov.in/www.keralartctender.com)

Tenderer shall remit Tender Document cost online in the e-tender portal and non-submission of sufficient Tender documents will lead to rejection of the tender in the first round.

##### 5.2.3 The online documents shall be submitted through the e-tender portal [www.etenders.kerala.gov.in](http://www.etenders.kerala.gov.in) Tenderers have to enroll themselves in the e-tender portal and digital signature certificate is required. The details can be obtained from the e-tender portal under the menu 'downloads'

##### 5.2.4 The general guidelines on e-tender process is as below;



**5.2.5** Bidders have to procure legally valid Digital Certificate as per Information Technology Act, 2000 for digitally signing their electronic bids. Bidders can procure the same from any of the license certifying authority of India. For more details, please visit the e-GP website [www.etenders.kerala.gov.in](http://www.etenders.kerala.gov.in) or contact Kerala State IT Mission, e-Government procurement PMU and Help desk, basement floor of Pension Treasury Building, Uppalam Road, Statue, Thiruvananthapuram. Ph: 0471 - 2577088, 2577188; Toll free No.18002337315; e-mail : [etendershelp@kerala.gov.in](mailto:etendershelp@kerala.gov.in) .

**5.2.6** Bidders may contact e-Procurement support desk of Kerala State IT Mission over telephone at 0471-2577088/188/388 or 0484-2336006, 2332262 or 0497-2764788, 2764188 or 0483-273294 or through email: [etendershelp@kerala.gov.in](mailto:etendershelp@kerala.gov.in) or [helpetender@gmail.com](mailto:helpetender@gmail.com) for assistance in this regard.

**5.2.7** The online tender process comprises the stages viz. downloading the tender document, prebid meeting (as applicable to each tender), bid submission (technical cover and financial cover), opening of technical bid proto type evaluation and opening of financial bids.

**5.2.8** The blank price bid should be downloaded and saved on bidder's computer without changing file-name otherwise price bid will not get uploaded. The bidder should fill in the details in the same file and upload the same back to the e-tender portal.

**5.2.9** Prices quoted by the Bidder shall be fixed during the bidder's performance of the contract and not subject to variation on any account. A bid submitted with an adjustable/ variable price quotation will be treated as non - responsive and rejected.

**5.2.10** Online Payment modes: The tender document fees and EMD can be paid through e-Payment facility provided by the e-Procurement system:

**5.3 Responsibility of verification of contents of tender document:**

5.3.1 Failure to furnish any information required by the tender documents and submission of an offer not substantially responsive to it in every respect shall be at the tenderer's risk and may result in the rejection of the bids, without any further notice

**5.4 Guidelines for preparation of Tender**

5.4.1 The Tenderer shall bear all costs associated with the preparation and submission of its bid and Kerala State Road Transport Corporation, Thiruvananthapuram, hereinafter referred to as "Tender Inviting Authority", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

5.4.2 In the event of documentary proof as required being not uploaded, the Tender shall be liable to be rejected. All pages of the bid, except for unamendable printed literature, shall be signed by the authorized person or persons signing the bid along with the stamp of the tenderer.

5.4.3 This Notice Inviting Tender, all pages should be filled, signed and stamped by the bidder should be scanned and uploaded.

5.4.4 **Language of Bid:-** The Bid prepared by the tenderer and all correspondence and documents relating to the bid exchanged by the Tenderer and the Tender Inviting Authority, shall be in English language. Supporting documents and printed literature furnished by the Tenderer may be written in another language provided they are accompanied by an authenticated accurate translation of the relevant passages in the English language in which case, for purposes of interpretation of the Bid, the English translation shall govern.

5.4.5 The tender (in English Language only) for the supply of equipments mentioned in Section III shall be submitted along

with detailed specifications. A technical leaflet /brochure / literature in original shall be enclosed along with list of names of government departments/offices/ organizations to whom the ELECTRIC Buses with the same specifications or higher have been supplied in India, along with certificate from user that those buses are performing satisfactorily as on date .

**5.4.6** The documentary evidence (other than those regarding supply and past performance) submitted along with the Tender shall be produced duly attested by the tenderer on every page and serially numbered. Any interlineations, erasures or over writing shall be valid only if they are initialed by the person (s) signing the offer.

**5.4.7** Tenderer shall submit a declaration letter as per the format given as Annexure B and copy of amendments published if any signed by the tenderer or the authorized representative shall be enclosed as part of the technical bid as a proof of having read and accepted the terms and conditions of the tender document.

**5.4.8** An offer submitted in vague /ambiguous financial terms and the like, shall be termed as non-responsive and shall be summarily rejected.

**5.4.9** Clarifications to specific requests received on email (**sr@kerala.gov.in**) shall be responded through e-mail and general clarifications, affecting all the tenderers shall be published in the official website of the Tender Inviting Authority (**www. etenders.kerala.gov.in**).

**5.4.10** Any clarification on the e-tender procedure shall be obtained from Kerala State IT mission and the contact numbers are 0471-2577088, 2577188, 18002337315.

**5.4.11** No telephonic enquiry / visits to any Office / Officer regarding the tender will be entertained all queries / correspondences by the aforesaid email only, which will be acknowledged / answered in time.

## **5.5 Online payment for e-Tenders**

**5.5.1** Bidders while participating in online tenders published in Government of Kerala's e-procurement website [www.etenders.kerala.gov.in](http://www.etenders.kerala.gov.in), should ensure the following:

**5.5.1.1** Single transactions for remitting tender document fee & EMD. Bidders should ensure that the tender document fees and EMD are remitted on single transactions and not separate. Separate or split remittance for tender document fee and EMD shall be treated as invalid transactions.

**5.5.1.2** The tender document fees and EMD shall be paid through e-Payment facility provided by the e-Procurement system.

**5.5.2** The bids will not be considered for further processing if bidders fail to comply on clauses above and tender fees and EMD will be reversed to the account from which it was received.

## **5.6 Tender Document Cost**

**5.6.1** Tenderer shall remit Tender document cost online in the e-tender portal & non remittance of Tender Document Cost as mentioned in the e-tender notice shall be one of the primary reasons for rejection of the offer in the first round.

**5.6.2** Tenderers shall pay tender document cost as per Notice Inviting Tender.

## **5.7 Earnest Money Deposit (EMD):**

**5.7.1** Tenderer shall remit EMD online in the e-tender portal & non-remittance of sufficient EMD shall be one of the primary reasons for rejection of the offer in the first round.

**5.7.2** None of the bidders are exempted from the remittance of EMD, in any case.

**5.7.3** EMD of unsuccessful tenderers will be discharged/returned as promptly through online transfer.

**5.7.4** The successful tenderer's EMD will be discharged upon the tenderers signing the contract and furnishing the performance security.

**5.7.5** No interest will be paid for the EMD remitted.

**5.7.6** The EMD will be forfeited, if a tenderer;

**5.7.6.1** Misrepresents facts or submit fabricated / forged / tempered / altered / manipulated documents during verification of tender process.

**5.7.6.2** Withdraws its bid after the opening of technical bid;

**5.7.6.3** A successful tenderer, fails to sign the contract after issuance of Letter of Intent

**5.7.6.4** Fails to furnish performance security after issuance of Letter of Intent.

**5.8 Deadline for submission of tender.**

**5.8.1** Tenderers shall upload all the necessary documents in the e tender portal before the last date & time for online submission and the Tender Inviting Authority shall not be held liable for the delay.

**5.8.2** The Tender Inviting Authority may, at its discretion, extend the deadline for submission of Tender by amending the Tender Document, in which case, all rights and obligations of the Tender Inviting Authority and the tenderers previously subjected to the deadline shall thereafter be subjected to the same deadline so extended.

**5.9 Modification and Withdrawal of Bids**

**5.9.1** The tenderer can modify or withdraw bids submitted online before the last date & time for online submission.

**5.10 Period of Validity of Tender**

**5.10.1** The tender must remain valid for minimum 180 days (six months) from the date of opening of price bid. A bid valid for a

shorter period shall be rejected by the Tender Inviting Authority as non-responsive.

**5.10.2** Withdrawal or non-compliance of agreed terms and conditions after the execution of agreement or issuance of Supply Order will lead to invoking of penal provisions and may also lead to black listing/debarring of the successful tenderer.

**5.11 Acceptance / Rejection of tenders:**

**5.11.1** It is also not necessary that the offer of the firm quoting the lowest rates shall be accepted. Usually the lowest offers of tenderers qualified for the price bid opening shall be accepted, unless one sided condition unacceptable to the Tender Inviting Authority are provided in such price bid.

**5.11.2** At any point of time, the Tender Inviting Authority reserves the right to cancel or modify the supply order even after it is awarded to the successful tenderer in the event the firm deviates from the agreed terms and conditions.

**5.12 Notices**

**5.12.1** The Tender Inviting Authority will publish the following information on its website or e-tender portal at the appropriate time as part of ensuring transparency in the tender process;

**5.12.1.1** The tender notices, documents, corrigendum, addendum etc if any.

**5.12.1.2** Amendments to the tender conditions, if any, especially after the pre-bid meeting.

**5.12.1.3** Results of the responsiveness of the technical bids and minor infirmities/clarifications sought.

**5.12.1.4** Final List of technically qualified bidders.

**5.12.1.5** Summary of Online price bid opening.

**5.12.2** Notice, if any, relating to the contract given by one party to the other, shall be sent in writing by email or fax and confirmed

by post. The procedure will also provide the sender of the notice, the proof of receipt of the notice by the receiver. The addresses of the parties for exchanging such notices will be the addresses as incorporated in the contract

**5.12.3** The effective date of a notice shall be either the date when delivered to the recipient or the effective date specifically mentioned in the notice, whichever is later.

### **5.13 Other terms and Conditions**

**5.13.1** All the terms and conditions in respect of warranty / AMC, Training of Staff etc shall be complied with.

**5.13.2** Technical Specifications and Standards:- The Goods & Services to be provided by the successful tenderer under this contract shall conform to the technical specifications and quality control parameters.

**5.13.3** The tenderer shall be responsible for payment of any charges due to any statutory authorities such as Income Tax, CGST, SGST, IGST, Customs Duties etc.

**5.13.4 Rejection of supplied bus:** On rejection of any bus subject to inspection or assessment of performance during commissioning at KSRTC premises, such buses shall be rectified or replaced by the manufacturer at its own cost within 15 days of the date of intimation of rejection.

**5.13.5** In the event, if it found that there is some statutory deduction to be made at the source, the Tender Inviting Authority will have the authority to do so.

### **5.14 Tendering System**

**5.14.1** The tenders / bids are to be submitted on-line in the e-tender portal.

**5.14.2** PART-I entitled as TECHNICAL BID. The technical bid shall be submitted in the e-tender portal. The technical bid shall contain the complete technical specification, details on

competency and financial stability of the tenderer, delivery and after sales conditions.

**5.14.3** PART II tilted as PRICE BID (BOQ) has to be submitted online only. The BOQ (excel sheet available in e-tender portal) is specific to a tender and is not interchangeable. The BOQ file shall be downloaded from the e-tender portal and quote the prices in the respective fields before uploading it. The Price bids submitted in any other formats will be treated as non-responsive and not considered for tabulation and comparison.

**5.14.4** Bidders have to procure legally valid Digital Certificate as per Information Technology Act, 2000 for digitally signing their electronic bids. Bidders can procure the same from any of the license certifying authority of India. For more details, please visit the e-GP website [www.etenders.kerala.gov.in](http://www.etenders.kerala.gov.in) or contact *Kerala State IT Mission, e-Government procurement PMU and Help desk, basement floor of Pension Treasury Building, Uppalam Road, Statue, Thiruvananthapuram. Ph: 0471 - 2577088, 2577188; Toll free No.18002337315; e-mail : [etendershelp@kerala.gov.in](mailto:etendershelp@kerala.gov.in) .*

**5.14.5** The tenderer shall enroll and register in the e-tender portal. The tenderer shall issue DSC to only the responsible person who is authorized to submit online bids.

**5.14.6** The tenderers who do not submit the technical bid which reaches beyond the stipulated date and time will be treated non-responsive.

**5.14.7** If the bids are not submitted as per the requirement of the above clauses, the Tender Inviting Authority shall assume no responsibility for the offer's misplacement and consequential rejection.

### **5.15 Pre-Bid Meeting**

**5.15.1** A pre bid meeting will be convened to clarify the doubts of the prospective tenders. The corporation may or may not amend



the terms and conditions as well as technical specifications of the tender document after the pre-bid meeting on the basis of feedback obtained during such meeting with a view to obtain maximum number of competitive bids.

**5.15.2** Date of pre-bid meeting is mentioned in the first pages of the tender notice.

**5.15.3** Pre-tender meeting is called by the Tender Inviting Authority to explain briefly about the requirements as well as the terms and conditions of the tender document and to get the views of the prospective tenderers, as part of ensuing transparency in the tender process.

**5.15.4** It is an opportunity for the prospective tenderer to obtain all the details about the tendered items, conditions governing the tenders and also to get the explanation of any ambiguous condition that may be present in the tender document.

**5.15.5** It is also an opportunity for the Tender Inviting Authority to assess the market and obtain feedback on the technical specifications/features etc, so as to make amendments in the tender document on the basis of expert advice.

**5.15.6** Failure to attend the Pre-bid meeting will not be a disqualification, but a loss of opportunity for the prospective tenderers to understand about the items tendered and the tender conditions.

**5.16 Amendment of tender documents:**

**5.16.1** At any time prior to the dead line for submission of Tender, the Tender Inviting Authority may, for any reason, modify the tender document by amendment.

**5.16.2** The amendments shall be published in e-tender portal, and the tenderer shall submit copy of amendments published if any signed by the tenderer or the authorized representative shall be enclosed as part of the technical bid as a proof of having read and accepted the terms and conditions of the tender document.

**5.16.3** The Tender Inviting Authority shall not be responsible for failure to inform the prospective tenderers for any notices published related to each tender. Tenderers are requested to browse e-tender portal or website of the Tender Inviting Authority for information/general notices/amendments to tender document etc on a day to day basis till the tender is concluded.

**5.17 Contents of online Bid submission.**

**5.17.1** Tender Document cost

**5.17.2** Earnest Money Deposit

**5.17.3** General information about the tenderer as per **Annexure- A**.

**5.17.4** Declaration Form as per **Annexure - B** and copy of amendments if any duly signed in all pages by the tenderer or the authorized signatory.

**5.17.5** Offer Form As per **Annexure - C** should be uploaded

**5.17.6** Performance evaluation sheet as per **Annexure - D**

**5.17.7** Specification Details as per **Annexure - E**

**5.17.8** A certificate in prescribed format as per **Annexure - F** for price firmness.

**5.17.9** Non supply at Lower Rate Declaration as per **Annexure - G**

**5.17.10** General terms and condition for the supply Declaration as per **Annexure - H**

**5.17.11** Anti black listing certificate as per **Annexure - I**

**5.17.12** Power of Attorney as per format in **Annexure -J**

**5.17.13** The bidder should upload the Declaration Form about Range in single charging as per **Annexure - K**

**5.17.14** The bidder should upload the Declaration Form about Supply of Battery Pack For Propulsion as per **Annexure - L**

**5.17.15** The bidder should upload the Undertaking to submit the Type Approval of the offered model as per CMVR as in **Annexure – M**

**5.17.16** All the documents as per clause 4.5

**5.17.17** Blank Price Bid format as per the format available in e tender portal.

**5.17.18** Documents showing service facilities in Kerala. Details of service centres in Kerala is not compulsory for participating in the tender, however, the bidder shall deploy after sales service set up at specified locations.

**5.17.19** Technical literature, product data sheet.

**5.17.20** The tenderer should upload the copy of Type Approval certificate for the offered model.

**5.17.21** Copy of certificate as per Clause No. 4.5.10

**5.17.22** The documents proving that the tenderer is a vehicle manufacturer should upload a certificate as per clause No. 4.5.1

**5.17.23** The documents such as notarized supply orders showing that the tenderer having previous experience in the business of the supply and AMC of the buses offered. The notarized copies shall be scanned and uploaded in the e-tender portal and the original notarized copy shall be submitted to KSRTC Chief Office only if requested.

## **5.18 Opening of Tender**

**5.18.1** The technical bid opening will be online. The date of technical bid opening is only published in advance.

**5.18.2** The on-line opening of the technical bid and the price bid shall be done by the Tender Inviting Authority or his authorized representatives. The prospective tenderers or his/her representative who choose to attend the on-line bid opening can be a part by logging in to the e-tender portal with the registered

digital signature. Tenderers or his/her representative shall not come to the office of the Tender Inviting Authority for the opening of either technical or price bids.

**5.18.3** In the event of the specified date for opening of Tender being declared holiday, the Tender shall be opened at the appointed time and venue on the next working day.

**5.18.4** In the event of the tender and claims in the on-line documents are materially missing or of substantial error or unqualified for want of required qualifications, shall stand disqualified and rejected. However, minor infirmities in the submission of documents will be allowed to be rectified so as to ensure qualification of maximum number of competitive offers to the final round.

**5.18.5** The date and time of Price Bid opening will be intimated only to the bidder qualified in stage I ie, after the opening of the Technical Bid.

## **5.19 Evaluation of tender**

**5.19.1** The bid evaluation will consist of three stages viz, (i) Technical bid evaluations, (ii) Proto type evaluation (iii) Evaluation of price bid.

**5.19.1.1** The commercial terms and documents submitted as part of the technical bids shall be scrutinized by a Bid Evaluation Committee constituted by the Tender Inviting Authority.

**5.19.1.2** The Bid Evaluation Committee may also verify the veracity of claims in respect of the known performance of the ELECTRIC bus offered, the experience and reputation of tenderer in the field, the financial solvency etc.

**5.19.1.3** The decisions of the Bid Evaluation Committee on whether the tenders are responsive or non-responsive or requiring clarifications will be published.

**5.19.2** Evaluation of Price Bid:

**5.19.2.1** A tenderer, at any stage of tender process or thereafter, in the event of being found after verification by the Tender Inviting Authority, to indulge in concealment or misrepresentation of facts, in respect of the claims of the offer, shall be debarred/black listed.

**5.19.2.2** The Tender Inviting Authority's decisions on the tender submitted shall be based on the decisions taken by the various committees and otherwise as per the clauses as mentioned above.

**5.19.2.3** The price bid evaluation will not be on the basis of price quoted for the bus alone. The net present value of AMC for the period mentioned in 4.1.2 and 4.1.3 will be considered. A sample calculation is shown in Appendix – II where in the period of warranty is assumed as 2 years / 200000 km whichever is earlier and AMC as Five years for the bus and 3 year for the battery pack for propulsion after the expiry of the warranty period (ref.clause 4.1.4 & 4.1.9). The discount factor is taken as 8%. The firm whose effective value is the lowest will be awarded the contract.

## **5.20 Clarification of Bids**

**5.20.1** During evaluation of bids, the Tender Inviting Authority may, at its discretion, give opportunity to the tenderer(s) for clarification of points raised by the bid evaluation committee on its bids submitted.

**5.20.2** The request for clarification and the response shall be in writing, either through email or fax or by post.

## **5.21 Price Bids**

**5.21.1** The Price bids (BOQ) of the short-listed technically qualified tenderer(s) will be opened only after evaluation of Technical Bids. The short-listing of the tenderer(s) will be carried out on the basis of the technical evaluation.

- 5.21.2** The opening of the price bid shall be done online by the Tender Inviting Authority or his authorized representative and only the Price Bids of those firms qualified in the detailed scrutiny and evaluation of the Technical bid, and proto type evaluation conducted by the Technical Committee/Tender Inviting Authority shall be opened in the second round.
- 5.21.3** Price Offered shall be all inclusive and in Indian Rupees. Price should be quoted for the supply, commissioning and maintenance (AMC to the fulfillment of the satisfaction of KSRTC) of the buses.
- 5.21.4** Fixed price: Prices quoted by the Tenderer shall be fixed during the period of the contract and not subject to variation on any account.
- 5.21.5** There shall also be no hidden costs.
- 5.21.6** Tenderer shall quote prices in all necessary fields in the available format. All white/green areas of the BOQ file shall be filled up. The grey areas of the BOQ file shall not be edited. The price shall be entered separately in the following manner:
- 5.21.6.1** Basic Price: The price of the supply of Fully Built ELECTRIC Bus, supply and installation of chargers and accessories quoted shall be for the delivery of the buses at the specified location of KSRTC. The prices shall be inclusive of Transit \ insurance, Transportation Charges or any other charges as applicable for door delivery.
- 5.21.6.2** GST shall be quoted in this column in numeric values and in Rupees (If the field is left blank, value will be taken as zero).
- 5.21.6.3** The total amount will be calculated as per the bid evaluation criteria which included the price as well as the AMC charges as per Appendix - II and will be taken for evaluation and bid ranking.

**5.21.6.4** The tenderers shall offer prices of the accessories inclusive of all the accessories mentioned in the technical specification under Appendix – I.

## **5.22 AMC Rates**

**5.22.1** Tenderer shall also quote AMC rates as per clause 4.1.4 & 4.1.9 for a period mentioned in clause 4.1.3 after the expiry of warranty period. The Rates of AMC for the prescribed period as per clause 4.1.3 shall be shown separately in the respective columns of price bid format in the following manner:

**5.22.2** If the Basic price and AMC is left Blank, then the BOQ will not be considered for evaluation and leads to rejection.

**5.22.3** If the offered value of AMC is zero, the manufacturer on default shall enter into AMC without executing any agreement by KSRTC.

## **5.23 Award of Contract**

**5.23.1** Criteria: - The contract will be awarded to the lowest evaluated responsive tenderer qualifying to the final round after scrutiny of the technical bids of the ELECTRIC bus, i.e. after price bid opening.

**5.23.2** Variation of Quantities at the Time of Award/ Currency of Contract:-At the time of awarding the contract, the Tender Inviting Authority reserves the right to increase the quantity by up to Thirty (30%) per cent, without any change in the unit price and other terms & conditions quoted by the tenderer.

## **5.24 Notification of Award/Letter of Intent (LOI)**

**5.24.1** Before expiry of the tender validity period, the Tender Inviting Authority will notify the successful tenderer(s) in writing, by registered / speed post or by fax or by email (to be confirmed by registered / speed post immediately afterwards) that its tender for accessories, which have been selected by the Tender Inviting Authority, has been accepted, also briefly

indicating there in the essential details like description, specification and quantity of the ELECTRIC Buses and corresponding prices accepted. This notification is undertaken by issuing a Letter of Intent (LOI) by the Tender Inviting Authority.

**5.24.2** The successful tenderer, upon issuance of the LOI, shall furnish the required security deposit and submit an agreement in the prescribed format within 15 (fifteen) days, failing which the EMD will be forfeited and the award will be cancelled.

**5.24.3** The Notification of Award shall constitute the conclusion of the Contract.

## **5.25 Signing of Contract**

**5.25.1** The successful tenderer shall execute an agreement for ensuring satisfactory supply, Commissioning after sales service/support during the warranty period, AMC period and entire life of the vehicle upto 20 years/ or as stipulated by the Govt. from time to time.

**5.25.2** The successful tenderer shall submit bank guarantee of required validity period.

**5.25.3** Promptly after notification of award, within fifteen (15) days from the date of the letter of intent, the successful tenderer shall submit the Agreement in two copies, both on Rs. 200/- Kerala state stamp paper purchased in the name of the successful tenderer, duly signed and dated, to the Tender Inviting Authority by registered / speed post or in person.

**5.25.4** The successful tenderer shall also enter into Annual Maintenance Contract Agreement with the Tender Inviting Authority, on the release of Purchase Order.

**5.25.5** Assignment: -The Successful tenderer shall not assign, either in whole or in part, its contractual duties, responsibilities and obligations to perform the contract, except with the Tender Inviting Authority's prior written permission.



**5.25.6 Sub Contracts:** - The Successful tenderer shall not sub contract the execution of the contract without the concurrence of Tender Inviting Authority. Such action, if done without the knowledge of the Tender Inviting Authority prior to the entering of the contract, shall not relieve the Successful tenderer from any of its liability or obligation under the terms and conditions of the contract.

**5.25.7 Modification of contract:** - If necessary, the Tender Inviting Authority may, by a written order given to the successful tenderer at any time during the currency of the contract, amend the contract by making alterations and modifications within the general scope of contract in any one or more of the following:

**5.25.7.1** Specifications, designs etc. where ELECTRIC Bus to be supplied under the contract are to be specifically manufactured for the Tender Inviting Authority.

**5.25.7.2** Incidental services to be provided by the successful tenderer

**5.25.7.3** Place of delivery is at Central Works, Pappanamcode, Thiruvananthapuram (Dist.)

## **5.26 Performance Security**

**5.26.1** There will be a security deposit amounting to 5% of the total value for supply of FULLY BUILT NON AC-ELECTRIC BUSES and a separate security deposit for AMC for period of five years as mentioned in the first pages of the tender notice, excluding taxes, which shall be submitted by the successful tenderer to the Tender Inviting Authority within 15 days from the date of issuance of 'Letter of Intent'. The performance security for supply of buses shall be released on 6 (Six) months after successful completion of warranty period. The performance security for AMC shall be released after 6 (Six) months after successful completion of AMC period.

**5.26.2** The agreement duly signed and returned to the tender inviting authority shall be accompanied by the security deposit amount in the form of demanded draft / bank guarantee valid after 6 months from the date of expiry of contract period in the prescribed format.

**5.26.3** Upon receipt of such agreement and security deposit the tender inviting authority shall issue purchase order containing the terms and conditions for the execution of the order.

**5.26.4** Failure of the successful tenderer in providing security deposit mentioned in the first pages of the tender notice. And/or in returning agreement copy duly signed in time shall make the tenderer liable for forfeiture of its EMD.

**5.26.5** The security deposit shall be denominated in Indian Rupees only.

## **5.27 Delivery**

**5.27.1** The successful tenderer will have to arrange transportation of the ordered buses as per its own procedure and pay necessary insurance against loss or damage incidental to manufacture or acquisition, transportation, delivery and pay all necessary charges incidental till it is satisfactorily delivered. It shall be ensured that the buses arrive at the destination(s) in good condition within the delivery period mentioned and as per the other requirements of the Tender Document.

**5.27.2** If at any time during the currency of the contract, the successful tenderer encounters conditions hindering timely delivery of the ELECTRIC buses and performance of services, the successful tenderer shall inform the Tender Inviting Authority in writing within a week about the same and its likely duration and make a request to the Tender Inviting Authority for extension of the delivery schedule accordingly. On receiving the successful tenderer's communication, the Tender Inviting Authority shall examine the situation as soon as possible and, at

its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of successful tenderer's contractual obligations by issuing an amendment to the contract.

**5.27.3** The successful tenderer is required to deliver the buses at the site within time specified as per the delivery schedule from the date of issue of the 'Purchase Order' and demonstrate individually the specification/features as well as operation / performance of the ELECTRIC bus to the satisfaction of the Tender Inviting Authority or its representative.

**5.27.4** The invoice shall be submitted for effecting stock entry at the respective location.

**5.27.5** The ELECTRIC bus will not be accepted after the date of issuance of notice of termination, even if the bus are ready or dispatched following the termination. For the remaining ELECTRIC bus and services, the Tender Inviting Authority/ may decide: -

**5.27.5.1** To get any portion of the balance completed and delivered at the contract terms, conditions and prices.

**5.27.5.2** To place orders for the unexecuted portion of the order or even the increased quantity with the next lowest qualified tenderer at the risk and cost of L1 bidder.

**5.28 Payment for AMC Charges:**

**5.28.1** The 70% of the AMC charges for one year shall be paid in advance against the submission of Bank Guarantee @110% of the amount payable as advance. For calculation of AMC charges, 25,000 km per bus in a quarter shall be considered. The bidder should submit bills on actual basis on before 10<sup>th</sup> of the succeeding month. The bills will be verified every month and the amount actually payable to the bidder after all adjustments including penalty shall be intimated to the successful bidder. The final settlement of the accounts will be carried out in every three

months within one month of completing quarter period. If any amount is found due to the Corporation, then it shall be adjusted against the advance AMC charges payable on next quarter/from the Security Deposit/Bank Guarantee. Also if any amount is found payable in addition to the remitted advance amount to the bidder, it will be paid and settled. Payment for AMC will be made on quarterly basis. After every month, the bidder will submit the bills and KSRTC will arrange the payment quarterly on receipt of the bills complete in all respect with the required supporting documents. Tax Deduction at Source (TDS)/CGST/SGST will be deducted at source from the payment due to the bidder as per applicable law.

**5.28.2** The successful tenderer shall not claim any interest on payments under the contract.

**5.28.3** Where there is a statutory requirement for tax deduction at source, such deduction towards income tax and other taxes as applicable will be made from the bills payable to the Successful tenderer at rates as notified from time to time.

**5.28.4** While claiming reimbursement of duties, taxes etc. (GST, custom duty) from the Tender Inviting Authority as and if permitted under the contract, the successful tenderer shall also certify that, in case it gets any refund out of such taxes and duties from the concerned authorities at a later date, it (the successful tenderer) shall refund to the Tender Inviting Authority forthwith.

**5.29 After Sales Service conditions:**

**5.29.1** The successful tenderer should setup service centre for satisfactory execution of the contract and the details shall be provided to the Tender Inviting Authority in writing. The set up has to be arranged before delivery of buses to KSRTC.

**5.29.2** KSRTC shall provide existing maintenance facilities available in the Depot on 'as is where is basis' to the successful bidder to

execute their maintenance works. The successful bidder will be responsible to make his own arrangement for Tools, Jigs and Fixtures required for proper maintenance and repair of buses and shall also provide sufficient staff for carrying out the AMC as per the tender terms and conditions. Water, Electricity & Space will be provided by KSRTC.

**5.29.3** The corporation attaches paramount importance to the after sales service of the buses supplied to ensure smooth operation afterwards. The successful tenderer is required to undertake preventive maintenance and attend all repairs, if any, that may arise during the warranty period free of cost and thereafter for AMC period including all spare parts and material as per the terms and conditions.

**5.29.4** The after sales terms and conditions will be strictly enforced and those tenderers who are willing to support the Tender Inviting Authority in its endeavor to provide trouble free operation/performance of these ELECTRIC buses for the prescribed period need only participate in the tender.

**5.29.5** Failure to provide satisfactory after sales services during warranty period and 5 year AMC will lead to blacklisting / debarring of the tenderers, but after issuing due notice and provide opportunity for being heard and also liable for payment of penalty as per relevant clauses.

**5.30 Guarantee/Warranty terms:**

**5.30.1 Warranty Conditions.**- The whole vehicle including the battery pack (vehicle propulsion) should have warranty for 2 years or 2 Lakh KM , which ever is earlier. The warranty shall cover battery pack for propulsion, electrical system, traction motor, all kinds of driveline system components including all kinds of consumables required for components covered under AMC. Warranty will not cover Tyres and accident repairs. Routine CF procurement will be the responsibility of the

KSRTC. However the structural defects in body such as loosening of paneling rivets body rivets, cracks in body components etc should be covered under warranty and AMC. Any premature failure of aggregates and accessories of these buses within the warranty period shall be replaced free of cost. If the warranty attentions are not done in the above stipulated time and consequently service disruptions or cancellations occur, KSRTC will realize the penalty as per section 5.30.12 of this NIT and this amount will be realized from the security deposit. If the security deposit is not sufficient to meet this, the same will be realized from any other payment due to them or legal steps will be initiated against the Tenderer, including revenue recovery. No other payment will be made during the warranty period (2 Years/ 2 Lakh Kms, which ever is earlier)

**5.30.2** The bidder shall use spare parts of the Vehicle Manufacturers / OEM, VM recommended grease, oil, coolant etc as recommended by the Vehicle Manufacturers only.

**5.30.3** The successful tenderer has to warrant that the Goods supplied under this Contract are new, of the most recent or current models and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.

**5.30.4** The successful tenderer further have to warrant that the buses supplied under this Contract shall have no defect arising from design, materials or workmanship or from any act or omission of the successful tenderer, that may develop under normal use of the supplied goods.

**5.30.5** All the buses including the accessories supplied as per the technical specification should carry warranty for a period mentioned under clause No.4.1.2 in the first instance. During this period, the successful tenderer shall replace all defective accessories / aggregates and attend to all repairs / overhauling / reconditioning / preventive maintenance as per AMC. The cost of spare parts and material for all

replacements as per clause 4.1.4 & 4.1.9 has to be borne by the successful tenderer during the period of warranty and AMC.

- 5.30.6** On expiration of the warranty and AMC period, the successful tenderer shall be willing to provide after sales support for an additional period of minimum 15 years or till the supplied buses are in use. The period to be decided by the tender Inviting Authority and shall be binding.
- 5.30.7 Site Visits:** The successful tenderers technical team shall visit each operating depots for conducting preventive maintenance and repair / overhauling during the warranty and AMC period. The successful tenderer shall attend all of break down/repair calls as and when informed by the Tender Inviting Authority.
- 5.30.8** During every visit, a copy of the service report/break down call report, duly signed by the custodian of the ELECTRIC bus and stamped shall be forwarded by email/fax/post to the KSRTC respective depot within 10 days from the due date.
- 5.30.9** Upon receipt of such notice for repair/breakdown from the Tender Inviting Authority, the successful tenderer shall, within the period specified under cl. 4.1.7, and with all reasonable speed, repair or replace the defective goods or parts thereof, without cost to the Tender Inviting Authority.
- 5.30.10** If the successful tenderer, having been notified, fails to rectify the defect(s) within the period specified mentioned in cl. 4.1.7, the Tender Inviting Authority may proceed to take such remedial action as may be deemed necessary, at the successful tenderer's risk and cost and without prejudice to any other rights which the Tender Inviting Authority may have against the successful tenderer under the contract.
- 5.30.11** Failure to attend the repairs in time or failure to attend the stipulated preventive maintenance visit or failure to replace the defective parts / aggregates or units within the stipulated period or to ensure the stipulated up-time in an

year shall lead to impose penalty as per Clause No. 5.30.12.

The maximum Penalty is capped @ 5% of AMC Charge.

**5.30.12 Penalty.**

Sl. No	PARAMETER	PENALTY / REMARKS, IF ANY
1.	Break down occurs in ELECTRIC Buses in warranty and AMC period because of maintenance lapse , poor workmanship, improper spare parts	Rs 500/Break down/bus
2	Repeated Break down for more than one occasion in a week of the same bus due to same reason in warranty and AMC period	Rs 750/Repeated Break down/bus
3	Vehicles over docked beyond 48 hrs due to failure of repair or replace any aggregates during warranty and AMC period	Rs. 1000 after 48 hours and thereafter it will increase by Rs.500/- per day per bus in addition to Rs.1000/
4.	Schedule operation in % per day	97% uptime of 355 days in the first two years and there after 0.5% decrease in every year, (excluding 10days per year) for preventive maintenance. Rs.1000 per day for non availability beyond uptime guarantee as below.  Uptime penalty calculations will be done for entire fleet average every year excluding days lost due to non operation due to reasons pertaining to KSRTC; Strike,



Sl. No	PARAMETER	PENALTY / REMARKS, IF ANY
		riots (force majeure provisions) etc.
5.	Range in KM in single charging	120 Km (minimum) in single charge. If any interruption happen in between service /schedule operation due to short fall in range, penalty will be Rs.10/-per km for the distance (km) cancelled per bus per day .
6	Power Consumption	Shall be less than 1.0 kWh per km under any circumstances. Cost of energy consumed in excess will be realised from the bidder

In case buses do not operate in any particular shift(s) because of natural disaster, riots or such other reasons beyond the control of bidder, this period shall be excluded while calculating the availability of the buses. Similarly, where the bus cannot operate because of being impounded in police/ judicial custody, this period shall be excluded for calculating the availability of the bus provided the non-availability of the bus is not due to an event caused by improper maintenance or negligence on the part of the bidder.

**5.30.13** Warranty certificate for the additional equipments fitted as per the tender specifications duly signed and with proper stamp of the institution concerned and also signed by the authorized signatory with the stamp of the successful tenderer shall be submitted to the Tender Inviting Authority for keeping it under safe custody along with the Invoices. A

copy of the original warranty papers has to be given to the head of the depot / garage where the buses are operated.

**5.30.14** The equipment fitted in the bus which requires quality assurance test, statutory test and certification of all the equipments and related components should be renewed in the prescribed intervals from the authority concerned during the entire period, as per the prevailing rules shall be done at free of cost during the Warranty and AMC period.

**5.30.15** Any mandatory approval required for satisfactory supply and execution of this contract of buses shall be obtained by the successful tenderer from with the respective authorities.

**5.30.16** The tenderer shall submit the details of activities to be carried out during the preventive maintenance.

**5.30.17** The tenderer shall submit the parameters which require calibration and the frequency of calibration required and shall carry out during warranty and AMC period.

**5.30.18** There should not be any exclusion of warranty for any spare parts (ref 4.1.4 & 4.1.9). If any equipment has a preventive maintenance kit recommended by the manufacturer to be replaced at specific time intervals, it shall be done through the trained KSRTC mechanics in the warranty and AMC period. The rate of the same excluding the labour costs shall be included in the offered price in warranty and AMC period.

**5.30.19** The tenderer shall provide up-time warranty of complete bus except tyre & body components.

**5.30.20** All software updates, if any required, should be provided free of cost during Warranty and AMC period.

**5.31 Annual Maintenances Contract or Comprehensive Maintenance Contract :**

**5.31.1** The Bidders shall agree in respect of proper Annual Maintenance Contract (AMC) to ensure trouble free services of Buses. The vehicle is expected to operate 240 km per day up to

5,00,000 KMs tentatively in five years. The Buses shall be maintained of the best quality and workmanship to the satisfaction of the Tender Inviting Authority or its Inspecting officers. The AMC charges shall be calculated as per Clause No. 5.31.13, 5.31.18 and Appendix-II.

**5.31.2** The whole contract is to be executed in the approved, substantial and workmanlike manner, to the entire satisfaction of the Tender Inviting Authority, who both personally and by its any person acting through or working under Tender Inviting Authority, shall have full power, at every stage of progress, to inspect the Buses with respect to maintenance at such times as he may deem fit and to reject any of the maintenance activity in the Bus/ item, which he may disapprove, and his decision thereon, and on any question of the true intent and meaning of the specifications/work shall be final and conclusive.

**5.31.3** The bidder shall be required to submit their AMC charges in Indian Rupees per kilometer per bus for each year as mentioned in the BOQ up to 5 years after the expiry of the warranty period for complete bus ( From 3<sup>rd</sup> year to 7<sup>th</sup> year) (excluding routine & preventive maintenance works recommended by the VM, tyres, accident repairs, Body CF repairs) taking into account preventive/ docking/ routine maintenance including on account of normal wear and tear, minor/ major repairs/ over-hauling of assemblies/ sub-assemblies and break downs, fire as well as broken lights and routine mechanical repairs etc. inclusive of labour cost to provide complete fleet utilization during warranty and AMC period. The AMC offer shall also be inclusive of consumables for components covered under AMC, spare parts, replacement of assemblies/ subassemblies, systems/sub-systems, and all value added services as per AIS:140/ BIS: 16833 such as Vehicle Tracking System (VLT Device), Security Camera Network (CCTV) with Panic Button, Led Destination Board System (LDBS) as per IS: 16490, Installation of on-board LCD display system for knowing various parameters such as energy consumption, charging details, km etc. Feeding of

Routes and Bus stops, scrolling messages as per the requirement of the Depots in Malayalam and English for manually as well as through VLT Device with Voice Announcement System etc. The bidder shall be responsible for carrying out repairs/ maintenance/ servicing etc. for complete buses (including supply of consumables for components covered under AMC, replacement and fitment of spare parts/ body parts/ aggregates/ assemblies/ sub-assemblies etc.) tentatively up to 5 years. The bidder should also submit the AMC Charge for the Battery Pack for 3 Years Propulsion after the expiry of the warranty Period (From 3<sup>rd</sup> year to 5<sup>th</sup> year). Only daily check-ups, preventive/routine maintenance of those components not covered under AMC as per clause 4.1.4 & 4.1.9, Electricity charge, tyre, accidental related work, CF renewal work of body and washing shall be arranged by the KSRTC during warranty and AMC period.

The Vehicle Manufacturer shall provide a software for preventive maintenance of buses supplied by original vehicle manufacturer for alerting monitoring and ensuring the scheduled preventive maintenance.

Training to staff and engineers to be given at the original vehicle manufacturer premises for one week on preventive maintenance and break down maintenance.

**5.31.4** The bidder shall be required to engage adequate skilled and trained technical and other manpower for proper maintenance and presentability of buses during the warranty and AMC Period the bidder should be responsible to provide all legal requirements to the personnel deployed during the entire period of contract.

**5.31.5** It is imperative that each Bidder fully acquaints himself with all the local conditions and factors, which would have any effect on the performance/ completion of the contract in all respects inter-alia including the cost of the maintenance of these Buses.

Bidders would themselves be responsible for compliance with Rules, Regulations, Laws and Acts in force from time to time in India. On such matters, the KSRTC shall not entertain any request from the Bidders.

**5.31.6** The Bidder shall obtain itself, at its own expense, all the latest specifications / procedures required for the maintenance of the Buses in accordance with the Contract terms.

**5.31.7** All supplies of spares for above AMC will be arranged by bidder by using his own resources and capabilities. The consumables and lubricants shall be of brands as recommended by the manufacturer.

**5.31.8** The replaced spares should be taken by the bidder from time to time and proper receipt of these items should be acknowledged from the concerned depot authorities.

**5.31.9** KSRTC shall provide existing maintenance facilities available in the Depot on 'as is where is basis' to the bidder. The bidder will be responsible to make his own arrangement for Tools, Jigs and Fixtures required for proper maintenance and repair of buses.

**5.31.10** KSRTC will allow the bidder to use available workshop facilities of the concerned depots only for the purpose of maintenance/ repair work of the KSRTC's buses. The bidder shall ensure the use of these workshop facilities properly and maintenance/ repair of the same will be the responsibility of the bidder.

**5.31.11** The bidder will maintain the buses on line for minor repairs. The repairs of routine nature/ inspection of the buses shall be under taken at KSRTC's depot(s) itself. During the period the bidder should certify daily that each vehicle is mechanically fit for service operation for the schedule kms in the concerned vehicle log sheet provided by KSRTC. The break down / delay for giving vehicle for service operation will attract penalty

clause as per 5.30.12. The bidder shall be solely responsible for major repairs such as overhauling of assemblies/ sub-assemblies, systems/ sub-systems, accidental bus repairs etc. No extra cost shall be paid by the KSRTC for towing of breakdown buses from breakdown place to the workshops for repairs except in case of brake down related to tyre, and accidents.

**5.31.12** These buses shall be attended at KSRTC Depots for minor repairs on line to minimize down time. KSRTC in coordination with the bidder shall remove the breakdown bus from the spot immediately to avoid traffic jam/ inconvenience to other road users. During AMC Period, the bidder shall be required to deploy well-trained Engineers/ Technicians/ trained staff/ manpower etc. to attend to the maintenance/ repairs and servicing of bus(es) and for quality assurance/ control/ checking/ preventive maintenance/ record-keeping etc. prior to the scheduled departure of each bus.

**5.31.13 Agreement and Security Deposit for AMC**

The bidder has to execute the agreement in format supplied by KSRTC in Rs.200/- Indian Stamp Paper with security deposit for Annual Maintenance Contract separately. The security deposit should be in the form of DD or Bank Guarantee and the security deposit will be refunded only after the completion of contract period, no interest for security deposit. The security deposit will be 5% of the total value of the AMC charges based on highest quoted AMC charges (Security Deposit = Highest AMC charge offered X 1,00,000 X 5 years x No. of allotted buses. This agreement and security deposit should be submitted separately in addition to the agreement and security deposit for Fully Built Bus mentioned in the first pages of the tender notice. The average of 100000 km is taken for bid evaluation and calculation of security deposit amount.

**5.31.14** The 70% of the AMC charges for one year shall be paid in advance against the submission of Bank Guarantee @110% of the amount payable as advance. For calculation of AMC charges, 25,000 km per bus in a quarter shall be considered. The bidder should submit bills on actual basis on before 10th of the succeeding month. The bills will be verified every month and the amount actually payable to the bidder after all adjustments including penalty shall be intimated to the successful bidder. The final settlement of the accounts will be carried out in every three months within one month of completing quarter period. If any amount is found due to the Corporation, then it shall be adjusted against the advance AMC charges payable on next quarter/from the Security Deposit/Bank Guarantee. Also if any amount is found payable in addition to the remitted advance amount to the bidder, it will be paid and settled. Payment for AMC will be made on quarterly basis. After every month, the bidder will submit the bills and KSRTC will arrange the payment quarterly on receipt of the bills complete in all respect with the required supporting documents. Tax Deduction at Source (TDS)/ CGST/SGST will be deducted at source from the payment due to the bidder as per applicable law.

**5.31.15** In case bidder does not perform the AMC Contract satisfactorily, KSRTC may terminate the Contract and forfeit the performance guarantee / security deposit.

**5.31.16** The bidder shall be responsible for taking other statutory certificates as required from time to time at his own cost during the entire AMC period. The purchaser shall bear the CF test fee, pollution certificate, road tax and insurance charge for bus only. No fine for these mandatory fees will be paid by the purchaser. No extra time shall be given for maintenance services and other jobs viz. getting pollution certificate, MVI/ fitness certificate, etc. The bidder shall be responsible to prepare/ make the fitness of chassis parts of buses (except tyre

and body components) fit for inspection and obtaining statutory certificates from the statutory authorities.

**5.31.17** The bidder shall be responsible to comply with all the laws as applicable in respect of AMC services from time to time during the period of Annual Maintenance Contract

**5.31.18** The calculation of kilometers for the purpose of AMC charges and otherwise (the dead km operation vehicle taken for major repairs etc will not be calculated for the payment of AMC charges shall not be as shown by the milometer/ speedometer of the bus. Instead the kilometers covered by the buses shall be decided on the basis of actual Kilometers operated by the bus as recorded on the Vehicle Log Sheet for the purpose of AMC charges. The kilometerage recorded by the bus in the duty memos shall be regularly transferred to the log book of the bus for record and for calculating payment of AMC charges. In event of any doubt in respect of kilometres of a route and road conditions, the representatives of the bidder and the KSRTC may carry out joint survey of the route for verification of route Kms as per Driver's memo vis-a-vis actual route Kms. and for the conditions of the road. The verified route Kms as per the joint survey report shall be made applicable by KSRTC from the date of survey without any retrospective claim.

**5.31.19: Sub-Contracting of AMC**

This means that the bidder shall not sub-let the Contract to any other firm/ entity. However, execution of Contract through its authorized network/ service providers will be permitted subject to the conditions that the bidder shall be solely and fully responsible for the AMC of the buses during the Contract period.

**5.31.20** All the unserviceable/ defective parts/ items/ used lubricants etc. replaced by the bidder from the Buses shall be



the property of bidder.

**5.31.21** KSRTC reserves the right to cancel the Annual Maintenance Contract at any time during the currency of the Contract after giving three months prior notice to the bidder. In such case, the bidder shall have no claim on the KSRTC and remove his manpower and all machines/ equipments from the site and vacate the site within three months of receipt of such notice of cancellation of the AMC. However the bidder shall provide spare parts supply for the remaining period of the entire life period

**5.31.22** Adverse operating conditions shall not affect the Contractual obligations and parameters of performance of the bidder under the Contract. Wear and tear of the bus due to bad road conditions, rains, flooding of roads, heavy traffic etc. will not be a defense on the part of the bidder for not fulfilling his Contractual obligations as per the Contract.

**5.31.23** The KSRTC reserves its right to advertise in or use for publicity the interiors and exteriors of the bus, in any form and manner as deemed fit, during the currency of the Contract. The bidder will not claim any share in the revenues arising out of this advertisement/ publicity. Further, the bidder will not claim any extra cost of maintenance on this account. The bidder will take due care of the advertisement/ publicity materials while carrying out the maintenance activities. Nor should the quality/ parameters of the AMC services provided by the bidder get impaired due to such advertisements/ publicity.

**5.31.24** KSRTC reserves his right to install value added services such as phone/ entertainment and information equipment etc. and other gadgets/ equipment such as Automatic Ticketing Machine etc. for any reason including to enhance safety, for commuter convenience, for better quality of service, to meet statutory requirements, etc. The bidder will not claim any share in the revenue, which may accrue to the KSRTC due to the

aforementioned services/ equipments/ gadgets. The bidder will also not increase or hike the AMC charges under the contract because of the above. Nor should the quality/parameters of the AMC services provided by the bidder get impaired due to such installations/ equipments. The KSRTC may have a separate maintenance contract for these additional equipments/ installations and the bidder will have no objection for the same and the said third party bidder alone shall be responsible for maintenance thereof and bidder shall not be held responsible for any loss or damage to the said value added service. However, if it is proved jointly that there is any loss / damage to the value added service during the maintenance activities, the same will be borne by bidder. The security of the bus at depots and while on service operation will be the responsibility of KSRTC.

**5.31.25** KSRTC will carry out inspection and maintain bus-wise record of maintenance and repair work done by the bidder, as per the standard/ norms of Vehicle and the bidder shall be required to co-operate in providing all the details pertaining to spare parts consumed in repairs and preventive maintenance and any maintenance activities carried out etc. The bidder shall also be required to provide details about the technical manpower and miscellaneous manpower deployed for maintenance of buses to the Purchaser.

**5.31.26** The security of the bus during parking at the depot is the responsibility of KSRTC. The depot authorities may inspect the buses of the depot at any time along with the representative of the bidder jointly for condition of bus body, assemblies/ sub-assemblies, systems/ sub-systems, spares and other accessories. If any of these are found damaged/ tampered/ lost/ missing/ theft, the concerned staff of the KSRTC's Depot who was entrusted with the up keep of them item bidder shall be responsible for the said loss and the amount of loss will be recovered from the defaulter.

**5.31.27** The buses in the KSRTC's depot will be driven/ handled only by the authorized personnel of the bidder who have valid heavy Driving License as per law. These buses will be driven by his authorized personnel only for the purpose of repair/ maintenance work within the depot premises.

**5.31.28** The bidder shall be responsible for damages due to maneuvering of buses inside the Depot by the employees of bidder i.e. Driver/ Staff for repairs/ maintenance and the cost of damages shall be borne by the bidder.

**5.31.29** Prescribed Speed Control limits of buses shall be ensured as per rules.

**5.31.30** The bidder shall fulfill all the provision of rules and regulation of the prevailing laws like Labour Laws, Industrial Dispute Act, Workman Compensation Act, Factory Act, Motor Vehicle Act etc. Any dispute arising out of the prevailing laws, the bidder shall be liable and responsible for the same.

**5.31.31** The bidder shall obtain the necessary license/ permit(s) under the prevailing law and also fulfill the provision of the Labour Laws and Industrial Dispute Act for which any issue arising out of these provisions of law, the Purchaser will not be liable and responsible for the same.

**5.31.32** The bidder shall not indulge in cannibalization of held up/ breakdown/ accidental buses during AMC Period and shall be solely held responsible for the same.

**5.31.33** The bidder shall arrange orientation training as and when required for drivers/ technicians/ supervisors/ engineers of the KSRTC in respect of proper handling of safety critical fitments and their effective use and maintenance aspect of the complete bus system.

**5.31.34** The bidder shall maintain up-to-date record in respect of skilled and trained technical and other manpower employed and

bus-wise spare parts/ assemblies/ sub-assemblies, systems/ sub-systems used and maintenance schedules in respect of preventive maintenance/ repairs of buses. The bidder shall be required to produce the same for inspection as and when asked by the Purchaser.

**5.32 Response to Emergencies:**

- i. The bidder shall react safely and quickly to emergencies in all aspects of the Project.
- ii. The bidder shall co-operate with relevant Fire Services, Police, and any other Government Instrumentalities wherever necessary.
- iii. The bidder shall develop an Emergency Management Plan that sets out its predetermined actions to providing a response to a major crisis or emergency occurring at Maintenance Depots ("Emergency Management Plan").
- iv. In developing the Emergency Management Plan, the bidder shall consult with all relevant Government Instrumentalities, emergency services and local authorities.
- v. All personnel designated to carry out specific responsibilities under the Emergency Management Plan are expected to know and understand the policies and procedures outlined in the Plan. The response to any major crisis or disturbance shall always be conducted within the framework of the Plan.
- vi. The bidder shall ensure that all staff are given clear instructions in line with the Emergency Management Plan, including training to deliver the required instructions to the staff.

### **5.33 Spare parts:**

5.33.1 The successful tenderer shall take over the replaced parts/goods after providing their replacements and no claim, whatsoever shall lie on the Tender Inviting Authority for such replaced parts/goods thereafter.

### **5.34 Training**

5.34.1 The manufacturer shall provide training to minimum 3 Drivers and 3 Mechanics and 1 Mechanical Supervisor and officers per bus on driving, vehicle maintenance and electrical and electronics (OBD and multiplexing), reconditioning of aggregate free of cost including in house training.

5.34.2 As training activity is an integral part of these contract, KSRTC will not make any payment for providing training.

5.34.3 Training shall be conducted at KSRTC workshop / depot / STCs and at company owned Training facilities including training at manufacturing plants.

### **5.35 Intellectual Property Rights (IPR)**

5.35.1 The successful tenderer shall, at all times, indemnify and keep indemnified the Tender Inviting Authority, free of cost, against all claims which may arise in respect of goods & services to be provided by the successful tenderer under the contract for infringement of any intellectual property rights or any other right protected by patent, registration of designs or trademarks.

5.35.2 In the event of any such claim in respect of alleged breach of patent, registered designs, trademarks etc. being made against the Tender Inviting Authority, the Tender Inviting Authority shall notify the successful tenderer of the same and the successful tenderer shall, at his own expenses take care of the same for settlement without any liability to the Tender Inviting Authority.

5.35.3 The Successful tenderer shall at all times, indemnify and keep indemnified the Tender Inviting Authority against all

claims/ damages etc. for any infringement of any Intellectual Property Rights (IPR) while providing its services under Warranty.

### **5.36 Corrupt or Fraudulent Practices**

It is required by all concerned namely the Tenderers/ Successful tenderers etc to observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Tender Inviting Authority defines, for the purposes of this provision, the terms set forth below as follows: "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Tender Inviting Authority, and includes collusive practice among Tenderers (prior to or after Tender submission) designed to establish Tender prices at artificial non-competitive levels and to deprive the Tender Inviting Authority of the benefits of free and open competition;

KSRTC/ Tender Inviting Authority will reject a proposal for award if it determines that the Tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question; will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract by the Tender Inviting Authority if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing the contract.

No tenderer shall contact the Tender Inviting Authority or any of its officers or any officers of the

government on any matter relating to its bid, other than communications for clarifications and requirements under this tender in writing, with an intention to influence the members of various committees or officials of Tender Inviting Authority. Any such effort by a tenderer to influence the Tender Inviting Authority in the Tender Inviting Authority's bid evaluation committee, bid comparison or contract award decisions may result in rejection of the tenderers bid.

### **5.37 Force Majeure**

For purposes of this clause, Force Majeure means an event beyond the control of the successful tenderer and not involving the successful tenderer's fault or negligence and which is not foreseeable and not brought about at the instance of, the party claiming to be affected by such event and which has caused the non - performance or delay in performance. Such events may include, but are not restricted to, acts of the Tender Inviting Authority either in its sovereign or contractual capacity, wars or revolutions, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes excluding by its employees, lockouts excluding by its management, and freight embargoes.

If a Force Majeure situation arises, the successful tenderer shall promptly notify the Tender Inviting Authority in writing of such conditions and the cause thereof within twenty one days of occurrence of such event. Unless otherwise directed by the Tender Inviting Authority in writing, the successful tenderer shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event

If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of Force Majeure for a period exceeding sixty days, either party may at its option terminate the contract without any financial repercussion on either side.

In case due to a Force Majeure event the Tender Inviting Authority is unable to fulfill its contractual commitment and responsibility, the Tender Inviting Authority will notify the successful tenderer accordingly and subsequent actions taken on similar lines described in above sub- paragraphs.

### **5.38 Resolution of disputes**

If dispute or difference of any kind shall arise between the Tender Inviting Authority and the successful tenderer in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.

If the parties fail to resolve their dispute or difference by such mutual consultation within twenty one days of its occurrence, then, unless otherwise provided in the tender document, either the Tender Inviting Authority/ User Institution or the successful tenderer may give notice to the other party of its intention to commence arbitration, as provided the applicable arbitration procedure will be as per the Arbitration and Conciliation Act, 1996 of India.

Venue of Arbitration: The venue of arbitration shall be the place from where the contract has been issued, i.e., Trivandrum, Kerala.

Disputes if any shall be settled through mediation and the Corporation will notify mediating official from time to time and only when mediation is failed, litigation with in the



jurisdiction of the courts at Thiruvananthapuram and Ernakulam need to be sought.

### **5.39 Applicable Law & Jurisdiction of Courts**

5.39.1 The contract shall be governed by and interpreted in accordance with the laws of India for the time being in force.

5.39.2 All disputes arising out of this tender will be subject to the jurisdiction of courts of law in Thiruvananthapuram and Ernakulam.

### **5.40 General/ Miscellaneous Clauses**

5.40.1 Nothing contained in this Contract shall be construed as establishing or creating between the parties, i.e. the Successful tenderer on the one side and the Tender Inviting Authority on the other side, a relationship of master and servant or principal and agent.

5.40.2 Any failure on the part of any Party to exercise right or power under this Contract shall not operate as waiver thereof.

5.40.3 The Successful tenderer shall notify the Tender Inviting Authority of any material change would impact on performance of its obligations under this Contract.

5.40.4 The Successful tenderer shall, at all times, indemnify and keep indemnified the Tender Inviting Authority against any claims in respect of any damages or compensation payable in consequences of any accident or injury sustained or suffered by its employees or agents or by any other third party resulting from or by any action, omission or operation conducted by or on behalf of the successful tenderer/its associate/affiliate etc.

5.40.5 All claims regarding indemnity shall survive the termination or expiry of the contract.

### **5.41 Penalties for non-performance**

The penalties to be imposed, at any stage, under this tender are; imposition of liquidated damages,

forfeiture of EMD, termination of the contract, blacklisting/ debarring of the tenderer, failure to produce the requisite certificates after claiming to possess such certificates or concealment or misrepresentation of facts will not only lead to rejection of tenders in the first round itself and/ or may lead to forfeiture of EMD as well as a result in black listing/ debarring of the tenderer.

The penalties to be imposed on the tenderer, at any stage, will be decided on the basis of the violations of number of tender conditions specifically mentioned in the tender document as that leading to forfeiture of EMD or leading to black - listing/ debarring .

Any unexcused delay by the successful tenderer in maintaining its contractual obligations towards delivery of goods and performance of services shall render the successful tenderer liable to any or all of the following sanctions:

The penalties imposed by the Tender Inviting Authority will be published on the website of the Tender Inviting Authority for a period as decided as appropriate by it with a view to prevent other government institutions from procurement of items from such tenderers.

The decision to impose penalties and finally to black list the defaulting firm will be final and shall be binding on all tenderers participating in this tender. However there will be provision for appeal before the government against the decisions of the Tender Inviting Authority.

#### **5.42 Termination of Contract**

Termination for default: The Tender Inviting Authority without prejudice to any other contractual rights and remedies available to it (the Tender Inviting Authority),

may by written notice of default sent to the successful tenderer, terminate the contract in whole or in part, if the successful tenderer fails to execute the AMC or fails to perform any other contractual obligation(s) within the time period specified in the contract, or with in any extension thereof granted by the Tender Inviting Authority.

Further details could be obtained from the office of the Chairman and Managing Director of KSRTC, Transport Bhavan, Fort, Thiruvananthapuram during office hours at 0471 - 2471011 (Extn : 231/303)

#### **5.43 Fall Clause**

The prices charged for the item supplied under the contract by successful tenderer shall in no event exceed the lowest price at which the successful tenderer sells the items of identical description to any other institutions during the period of contract. If any time, during the contract, or get reduction in taxes or other charges the tenderer reduces the sales price chargeable under the contract, he shall forth with notify such reduction to the Tender Inviting Authority and the price payable under the contract of the items supplied after the date of coming into force of such reduction or sale shall stand correspondingly reduced.

The bidder is expected to maintain all the assemblies/ subassemblies/ items/parts etc. for proper functioning of the Bus in accordance with the technical specifications of the present model and recommendations of the Vehicle Manufacturers with respect to preventive maintenance services and dockings including for consumables.

**5.44 Spares and After Sales Service:** The bidder shall confirm adequate availability of spare parts and after sales service for the buses offered in the bid during warranty and AMC period and further up to 15 years failing which actions will be taken for blacklisting the bidder and other consequent legal formalities.

The period required for spare parts support will be same as to the

permitted life span of a Public bus as per the Govt.directives.

**5.45 Service Manuals and Spare parts Catalogue** :- Detailed maintenance and service manual / workshop manual, spare parts catalogue etc shall be specially prepared for the supplied bus in soft copy or printed booklet along with the first supply of buses.

**5.46 Temporary Registration:**

The temporary registration should have a validity of at least 15 days while on delivery of vehicles at destination. If by any instance the vehicle is not accepted by KSRTC due to any reason the renewal of temporary registration has to be made by the bidder until it is accepted by KSRTC.

**5.47. Statutory Compliance:** The Bidder shall obtain himself, at his own expense, all the latest Specifications required for design, manufacture, and supply and commissioning of Buses in accordance with contract terms. The bidder shall be required to comply with all the latest provisions of the Central Motor Vehicle Rules 1989 (CMVR), Motor Vehicle Act 1988 (MVA) and KMV Rules 1989,AIS: 052 Bus body code along with all amendments therein and other Statutory and legal requirement as applicable on the date of delivery / registration of Buses and any retro fitments done during the contract period the bidder shall obtain necessary certificates from the competent authorities. Modifications with regard to emission norms as and when issued by the Government should be incorporated and shall obtain necessary certificates for the entire period from the competent authorities.

**5.48. Inspection of buses at destination station:-** The manufacturer shall be responsible and liable to deliver fully built buses in accordance with the technical specifications, terms and conditions at Central Works, Pappanamcode. On receipt of buses at the place of delivery, along with the required valid

documents, these shall be jointly inspected by the supplier and the authorised official of the Corporation for the completeness and satisfactory condition of all equipment / components. Damages, defects and deficiency, if any, shall be noted and the supplier shall initiate immediate action for making good same under advice from the Corporation within mutually agreed time period. Any delay for commissioning of these buses due to any such reason shall be to supplier's account and shall be dealt with by the Corporation as per conditions of the contact.

**5.49. Liquidated damage for supply performance** - The successful Tenderers shall supply the ordered quantity of Fully built Buses as per the delivery schedule given by KSRTC. If Fully built Buses are not supplied as per supply schedule given by KSRTC, liquidated damages will be realised from the supplier at the rate of 0.5% of the cost of item per week for each week or part there of, up to a maximum deduction of 10% of the contract prices and there after the Corporation will consider the termination of the contract at the risk and cost of the bidder, as per the provisions of Kerala Store Purchase Manual.

**5.50 Specific Conditions**

Letter Of Acceptance (LOA) will be given to L1 Bidder. Upon receipt of the 'Letter of Acceptance', the successful Bidder shall return two copies of the Letter of Acceptance duly signed and stamped by his authorized signatory within 7 (Seven) days from the date of dispatch of Letter of Acceptance. However, the Contract shall be deemed to be concluded on the date of dispatch of the 'Letter of Acceptance' by the Purchaser. Upon return of 'Letter of Acceptance' from the successful Bidder, the purchase order will be issued by KSRTC.

The routine preventive maintenance of the vehicle shall be carried out at the premises of KSRTC without interrupting the service operations.

**5.51** The vehicle manufacturer who have after sale service / performance / spare parts related issue for the earlier supply of buses to KSRTC shall have to give additional performance security @Rs.500000 per bus in the form of DD / Bank Guarantee during the entire period of contract with KSRTC.

Sd/-

**CHAIRMAN AND MANAGING DIRECTOR**

I/We hereby accept all the above terms and conditions in its entirety.

Signature:

Name:

Address:

Telephone No.

Mobile No.

Place:

Date:

### **GENERAL REQUIREMENT AND SPECIFICATION**

1. **FIRE SAFETY:** The bus shall be designed and manufactured with all applicable fire safety regulations under CMVR/ Bus Code for safety of ELECTRIC buses including prescribed upholstery material, fire retardant cable, connectors etc. These provisions shall also include the use of fire retardant material, fire detection system, fire walls and facility for passenger evacuation [doors, windows and escape hatches] as per statutory requirements besides Bus Code.
2. All ELECTRIC system items shall conform to the relevant CMVR/ CCOE, Government of India/ BIS/ AIS 007,048 & 049 and other applicable standards.

### **3. PROTECTION AGAINST FIRE RISK**

All wires shall be routed away from heat zone areas and shall be properly fitted in fire retardant sleeves additionally and adequately shielded from heat. Also, these wires shall be prevented from sharp edges and grommets shall be used wherever unavoidable.

### **4. UNDER FRAME AND STRUCTURE**

The entire surface of bus under floor and sides exposed to ground shall be covered with appropriate corrosion prevention and flame retardant paint coating for protection against harmful effects of water, mud etc and to retard flames, if any.

5. Sufficient clearance and air circulation shall be provided around the tyres, wheels and brakes to preclude over-heating when the bus is operating.
6. Roof structure shall be thermally insulated with flame retardant Polyurethane or glass wool of minimum 40 kg/m<sup>3</sup> density. The bidder shall provide specifications/ BIS standards for the aforesaid insulating material.
7. All exterior surfaces shall be smooth and free of wrinkles and

dents. Finished painted surface of the bus should be free from any imperfections

## **8. SERVICE DOORS**

Two Nos. of service doors as per CMVR, one entrance service door at rear (preferably between axles) having 1200 mm width or as per CMVR/AIS052 and another service door as exit door at front (ahead/ behind the front axle). Door opening mechanism shall be power operated. Door opening and closing time per opening shall be 4 second max. Door aperture should be conforming to CMVR and KMVR. It shall comply the provisions prescribed for power operated doors as in AIS 052.

The entrance and exit doors shall be power operated controlled by the driver and/or the conductor with internal and external emergency open controls. In the event of an emergency, it shall be possible to open the doors manually. Doors, door hinges and locks shall comply with safety requirements as per Indian/ standards. A suitable indication system shall be provided on driver's dashboard to warn that the door is 'Open' or not fully closed. Also there should be switch/ button at suitable location near passenger doors accessible to passenger to sent request signal to driver for stopping bus at the forthcoming stop or in case any if there is any emergency. Entrance and Exit doors shall be provided with suitable support in the form of grab handles for boarding/ alighting passengers.

9. A warning electronic chime shall be installed at the doors. This chime is activated before opening or closing.

10. A red "DOOR CLOSING" sign shall be installed above exit door. The sign will blink when exit door is closing.

## **11. EMERGENCY EXIT**

Emergency exits shall be provided in the bus as per the provisions of the Bus Code/ CMVR. For emergency exit purpose, service doors equipped with power operated system shall be provided with mechanism to be readily operable by hand.



## 19. STEPS

Number of steps shall be meet the requirement of the Bus Body Code. In order to maintain uniformity of floor height the first step height shall be 400mm .

## 20. FLOOR

The flooring design should allow easy cleaning including sweeping and drainage of water.

The foot-steps shall also be provided with the fitment of Aluminium step edge section. Adequate sealing shall be provided in the floor to prevent ingress for dust/gases/water etc.

21. The bus will have Passenger Information System (PIS System) at front, rear, side and internal display board with integrated voice announcement system as per requirement, in-built IRNSS based VLT Device for Automatic Vehicle Location System which is approved by Kerala Motor vehicle Department (with compliance of AIS 140 with minimum 5 Nos. of emergency buttons for access to every passenger in the bus , preferably inbuilt box). This VLT Device shall be integrated with other VLT System implemented by KSRTC and shall also provide suitable software for Vehicle Tracking, Input to PIS System, KM/KG and other performance reports.
22. **Material Inspection:** The materials to be used for the manufacturing of buses shall conform to the specified Automotive Industry Standards (AIS)/Bureau of Indian Standard(BIS) surpassing the performance and other requirements as given in the Bus Body Code AIS 052. Bidder shall be required to obtain type approval of all safety critical items/materials from the authorised testing agencies before use . The manufacturer shall be required to provide a list of such items along with their Certificates to KSRTC.
23. **Maintenance of Bus:-** Towing arrangements to be provided. Accessories / Assemblies are easily maintainable and replaceable. Battery cut off/ isolation switch shall be provided near the driver seat.

**Appendix - I**

**SPECIFICATIONS OF  
FULLY BUILT NON-AC ELECTRIC BUS AS PER CMVR NORMS**

<b>SL.NO</b>	<b>CHARACTERISTICS</b>	<b>SPECIFICATION DETAILS</b>
1)	Type of buses	ELECTRIC BUS TYPE I
2)	Type of application	CITY
3)	Range in Single Charge for 80% soc. as per AIS 040, CMVR 124) Throughout the entire 5year period.	120 km(minimum)
4)	Energy Consumption	<1.0 Kwh/ Km
5)	Charging Device	It should be supplied by bidder Fast charger – 50%
6)	No. of charging Device	One charging device for every two bus
7)	Length of buses	8500mm to 9500mm
8)	Floor height	400 to 900 mm
9)	Overall width	2600 (maximum)
10)	Overall height	3800 (maximum)
11)	No. of seats	30 +1D (minimum)
12)	Type of seat	City bus
13)	No. doors	2 nos
14)	Front Door-1	At front ahead/behind axle (Power operated – Driver controlled)
15)	Center door	Between axles- 1000 mm wide for rapid movement of passengers (Power operated – Driver controlled)
16)	Positions of door controls	Should be on dashboard for driver control and emergency switch inside & outside of doors as per AIS 052

17)	Power operated service door- construction & control system of a power operated service door to be such that a passenger is unlikely to be injured/ trapped between the doors	As per AIS 052
18)	Front Suspension	Weveller /Air suspension
19)	Rear suspension	Air suspension
20)	Steering system	Power assisted
21)	Charging mode	AC or DC Charging (Suitable for fast charging also)
22)	Electric Horn	24 V as per IS.1884:1993 Matched Pair (Low & High tone)
23)	Braking system	Power assisted disc/drum brakes
24)	Anti-skid anti-locking brake system (ABS)	As per CMVR required
25)	Public Information System	Required as per AIS052
26)	Speed limiting device	There shall be provisions for limiting the vehicle speed at any value as per relevant KMVR and as required by KSRTC.
27)	Tyres	Radial/Tubless Tyre - 6 +1. (As per type approval)
28)	Front overhang	As per CMVR
29)	Rear overhang	As per CMVR
30)	Emergency doors/exits or apertures (numbers) and dimension in mm	As per AIS 052
31)	Design type approval	As per AIS 052
32)	Bus structure- materials	GI/Anti corrosion treated ERWCR Steel

	specs etc.	Materials as per Type approval
33)	Maximum first step height	400mm
34)	Grab rails, Centre posts and passenger slings	Stainless steel pipe of 32mm & 2mm thick for Grab rail, Centre post and should provide passenger slings at necessary points.
35)	Foot step	Lower foot step should have retractable facility for differentially disabled
36)	Panel beading	As per AIS 052
37)	Roof grab rail brackets	As per AIS 052
38)	Floor material	As per AIS 052
39)	Front windscreen (laminated ) glass:	Single piece laminated safety glass, with PVB film interlayer as per IS 2553 (part-2)-1992/ latest
	Glass Fitment	Front wind shield glass shall be fixed by EPDM Rubber beading. Beading less fitment is not acceptable in case of front glass.
	Size & design of glass	Standard designs and also as per table 22 of AIS 007
40)	Rear windscreen glass	Single piece flat/curved toughened glass- IS:2553 (part-2)-1992/latest
	Glass Fitment	Shall be fixed by EPDM rubber beading/ Pasted type.
	Size of glass	Standard designs as per the Proto-type approved by KSRTC should be supplied in the entire supply of buses for each variant of buses.
41)	Side windows:	Flat two piece design- top fixed and bottom sliding toughened tinted glass. As per AIS 068
42)	Glass specifications	Toughened tinted glass IS 2553 (part-

		2)-1992/latest
	Glass thickness:	As per AIS 052
	Colour of glass	As per CMVR 100
43)	Rear view mirrors	As per AIS 052
44)	Fitment of Rear view mirror	Stainless steel C-brackets, Left side rear view mirror should visible to driver through Front Wind Screen glass(Compulsory)
45)	Mirrors right/left side exterior /interior:	Convex as per AIS 001 & 002. Interior mirror with double curvature
46)	Seat layout	2 x 2
47)	Seat area /seat space per passenger (width* depth)	As per AIS 052
48)	Seat pitch-minimum	As per AIS 052
49)	Seat back rest height	As per AIS 023
50)	Passenger seating	As per AIS 052 & AIS 023.
51)	Seat materials	Cushioned High back rest seat with PU foam covered with artificial Leather upholstery [ Compliance of Flammability requirements as per IS 15061:2002 ]
52)	Seat frame structure material	Powder Coated ERWCR steel tube.
53)	Back rest Materials	As per AIS052 with High back rest seat, head support and seat cushion [compliance of flammability requirement IS15061:2002]
54)	Orientation of seats	All seats should be fitted forward looking
55)	Number of seats	Minimum 30 +1D
56)	Seat back rest	Required, Fixed type
57)	Sun visor	Required (Good quality durable and easily operatable)

58)	Seat belts & their anchorage	As per AIS 052. should be provided to all seats where there is no provision for grab support in front.
59)	Driver seat	AIS 023 and AIS 052
60)	Driver's working space	As per AIS 052, also proper air ventilation facility to be provided for driver with bottle holding clamp facility.
61)	Corrosion prevention treatment	As per clause 3.17 of AIS 052
	Internal surfaces of structural members	
	External surfaces of structural members	
	After drilling holes/welding	
62)	Primer coating	As per clause 3.17 of AIS 052
63)	Body Painting:	PU Paint to be used
64)	Body Colour and Design	Will be given by KSRTC
65)	Electrical system, electrical cables and conductor cross section	BIS marked, copper conductors with fire retardant insulation as per IS/ISO: 6722:2006. Conductor cross-section varying as per circuit requirements, minimum cross-section 0.5 sq mm.
66)	Fuse	As per AIS 052
67)	Isolation switches for electrical circuits where RMS value of voltage exceeds 100 volts	As per AIS 052
		As per AIS 052
68)	Location of cables away from heat sources	As per AIS 052
69)	Type approval of circuit diagram as per standards	As per AIS 052

	related to electric equipment/wiring	
70)	Battery (starting battery cut - off switch (isolator switch):	Shall be positioned near driver seat for easy and quick operation by driver.
71)	Wind screen wiper:	As per table 22 of AIS 007
72)	Wiper motor:	Variable speed with time delay relay as per AIS 11
73)	Wiper arm/blade:	As per AIS 019/AIS 011
74)	Power ports for ETM charging	Requires one ETM charging point with ETM holder in driver cabin. Suitable DC to AC converter should be provided near the conductor seat/inside the ETM box.
75)	Lighting- internal & external and illumination	As per AIS 052 and all interior lights should be LED Type, OE fitting preferred in case of head lamp and tail lamp.
76)	Dash board lighting/control lighting	As per AIS 052
77)	Driver seat belt & anchorage duly type approved.	As per CMVR & AIS 052 conforming to AIS 005 & 015
78)	Fire extinguisher:	As per AIS 052/CMVR/KMVR
79)	First aid box:	Required -1Nos (Fixed metallic box/ plastic box as per provision of CMVR
80)	Handholds:	As per AIS 052, fixed type preferred.
81)	Stanchions:	As per AIS 052/CMVR.
82)	Window guard rails:	As per AIS 052/CMVR.
83)	Entrance/exit guard/step well guard:	As per AIS 052, step well guards as per Type Approval.
84)	Emergency exit doors, warning devices etc.	As per AIS 052 /CMVR No seats shall be fitted obstructing the

		free access to emergency door. One grab rail to be provided above the emergency door. Foot rest cum guard to be provided in front of seats behind emergency door.
85)	Front/rear door, step well lights, door open sign	LED bulb as per AIS 008
86)	Towing device front/rear	AS per CMVR & IS 9760-ring type
87)	Warning triangle	As per AIS 052/CMVR
88)	Bumpers-front and rear	As per AIS 052, Detachable type, easily removable in order to have access to repair the aggregates.
89)	Luggage Box / Courier Box	As per AIS 052 and mutually agreed by the KSRTC and bidder with scope for maximum space for the provision of courier transportation.
90)	Electronic Ticketing Machine (ETM) Box	Electronic Ticket Machine (ETM)/ Ticket Rack Box: One box with lock and key should be provided to keep it safely under the conductor seat.
91)	Roof hatch	2 nos. to be provided (Front-1No- openable to front and Rear-1No- openable to rear).
92)	Mobile Charging unit	5 Nos. (minimum) of mobile charging unit should be provided. If the charging unit is away from the seat then sufficient lock and key facility to be provided.
93)	Stay box for crew	To be provided with locking facility and accessible from driver cabin. It should be enough spacious to keep the essentially belongings of crew.



94)	Warranty	The Fully Built ELECTRIC Bus offered should have a warranty for a period of 2 Years/ 2 Lakh Km which ever comes earlier, in respect of Chassis parts, Traction motor, battery pack for vehicle propulsion, and any other related systems and Body Building Materials and all kinds of consumables required to run the bus. ie, aggregate and bus body items provided in these buses due to defective design, material or workmanship from the date of registration of the vehicle.(Only normal wear of tyres, accident repairs of body, bus washing are excluded from warranty)
95)	Destination Board	As per AIS:052
96)	Driver Cabin Separation	Should be separated from passenger saloon as per AIS 052 Stainless steel tube structure, fencing type suitably designed by the manufacturer. This separation should not restrict the driver seat position adjustments.
97)	Driver Cabin Fan	A suitable good quality durable fan to be provided in the driver cabin to fan the driver.
98)	Accessories	Fully equipped standard tool kit containing Tommy bar, Wheel spanner, Screw driver (heavy duty), cutting pliers, pipe wrench and Hydraulic Bottle Jack 10 Ton (Minimum Capacity).

99)	Bus Chargers	One charging unit should be supplied for every 2 buses, and installed at the location suggested by KSRTC. Civil and back end high voltage electrical system for chargers including transformers will be provided by KSRTC
100)	Proper access to repair and maintenance points of various vehicle components	There shall be easy and quick access to all under chassis components which require repair and maintenance such as suspension, steering, brake, electric motors, battery etc.
101)	Paneling Materials	As per AIS 052( Table 22 of AIS007)
102)	Conductor bell	String type required
103)	Positioning of switches	All light control switches shall be positioned, as it should be easily accessible from the driver seat.
104)	Conductor seat	Shall be provided separately as independent seat near the rear foot board.
105)	Vehicle location tracking device and emergency button	Complying AIS 140 and as approved by KMVD with IRNSS, models with minimum 5 panic buttons necessary software shall also be supplied for Vehicle Tracking, Energy consumption monitoring, PIS and other performance reports and must be integrated with KSRTC applications.
106)	Certifications	Comply with a) CMVR and KMVR requirements b) Type approval certificate by any authorized agency in CMVR 126 c) Compliance to strength of super structure- as per CMVR/AIS052

		<p>d) Compliance to Bus Body Code AIS 052 &amp; ITS AIS:140</p> <p>e) Compliance of flammability requirements as per IS 15061:2002</p> <p>f) Certificate issued by ARAI, iCAT or any other competent authority.</p>
107)	Stage inspection of prototype bus by KSRTC team at the production site	<p>1. After the completion of super structure (before paneling and fixing of platform)</p> <p>2. After completion of whole work. The supplier should make arrangements for the inspection timely.</p>

Signature:

Name & Address of the Tenderer

Place:

Date:

(Seal of the Tenderer)

## APPENDIX: II

### KERALA STATE ROAD TRANSPORT CORPORATION

#### SAMPLE PRICE EVALUATION

The price bid evaluation will not be on the basis of price quoted for the Bus. The NPV of AMC for the period mentioned and the cost of the main reagents and consumables will be considered as follows. In the sample calculation the warranty is taken as 2 years/ 2 Lakh KMs whichever is earlier and AMC as 5 years after the expiry of warranty period for the bus( from the 3<sup>rd</sup> year till 7<sup>th</sup> year) and for the battery pack 3 years after the expiry of the warranty period ( from 3<sup>rd</sup> year till 5<sup>th</sup> year). The 100000 km is taken only for calculation purpose to arrive at the L1 bidder.

Description	Firm I	Firm II	Firm III	Firm IV
Unit ELECTRIC Bus cost including all taxes and other charges (X)	995000	1090000	1050000	995000
Unit Cost of Battery Pack for propulsion (Spare) (Y)	300000	350000	350000	310000
III year AMC (Quoted rate per km x 100000 km)	35000	25000	40000	30000
IV year AMC (Quoted rate per km x 100000 km)	40000	25000	40000	35000
V year AMC (Quoted rate per km x 100000 km)	50000	30000	40000	40000
VI year AMC (Quoted	60000	30000	40000	45000

rate per km x 100000 km)				
VII year AMC (Quoted rate per km x 100000 km)	70000	35000	40000	50000
NPV @ 8% ( Z)*	169869	97966	136924	134296
Effective value for calculating L1= ( X + Y+ Z)	<b>1464869</b>	<b>1537966</b>	<b>1536924</b>	<b>1439296</b>
<b>Status</b>	<b>L2</b>	<b>L3</b>	<b>L4</b>	<b>L1</b>

- $Z^* = \frac{1}{(1.08)^3} \text{ III year AMC} + \frac{1}{(1.08)^4} \text{ IV year AMC} + \frac{1}{(1.08)^5} \text{ V year AMC} + \frac{1}{(1.08)^6} \text{ VI year AMC} + \frac{1}{(1.08)^7} \text{ VII year AMC}$

**Annexure -A**

(Proforma of Certificate be furnished along with Technical Bid)

**KERALA STATE ROAD TRANSPORT CORPORATION**  
**GENERAL INFORMATION ABOUT THE TENDERER**

1	Name of the			
	Registered address			
	of the firm with			
	GSTIN			
	State		District	
	Telephone No.		Fax	
	Email		Website	
<b>Contact Person Details</b>				
2	Name		Designation	
	Telephone No.		Mobile No.	
<b>Communication Address</b>				
3	Address			
	State		District	
	Telephone No.		Fax	
	Email		Website	
<b>Type of the Firm ( Please ✓ relevant box)</b>				
4	Private Ltd.		Public Ltd.	
	Partnership		Society	
	Registration No. & Date of			
<b>Nature of Bussiness ( Please ✓ relevant box)</b>				
5	Original Equipment		Authorized Dealer	
	Manufacturer		/Representative	
	Direct Importer		Others, specify.	
<b>Key personnel Details</b>				
<b>(Chairman, CEO, Directors, Managing Partners etc. )</b>				
6	in case of Directors, DIN Nos. are required			
	Name		Designation	
	Name		Designation	

<b>Bank Details</b>					
7	Bank Account No.		IFSC Code		
	Bank Name & Address		Branch Name		
	Tel No		Email ID		
8	Whether any criminal case was registered against the company or any of its promoters in the past?				Yes / No
9	<p style="text-align: center;">Other relevant Information provided *</p> <p>(here enclose the details such as presentation on the details of the tenderer in a CD preferably, please avoid submission of detailed leaflets/brochures etc, if possible.)</p>				
Date:		Office Seal		Signature of the tenderer / Authorised signatory	

**Annexure - B**

(Proforma of Certificate be furnished along with Technical Bid)

**KERALA STATE ROAD TRANSPORT CORPORATION**

**DECLARATION FORM**

I/We M/s. \_\_\_\_\_  
represented by its Proprietor / Managing Partner /Chairman and  
Managing Director having its Registered Office at  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ do hereby declare that I/We  
have carefully read all the conditions of tender .....  
**DATED** ..... for supply of ..... invited by the Kerala  
State Road Transport Corporation., Thiruvananthapuram and accepts all  
conditions of Tender.

Signature of the Tenderer  
Name in capital letters with Designation



**Annexure - C**

(Proforma of Certificate be furnished along with Technical Bid)

**KERALA STATE ROAD TRANSPORT CORPORATION**

**OFFER FORM**

Having examined and accepting the conditions of the tender document no ..... we here by submit this offer for the supply and maintenance of Fully Built Non A/C Electric Buses conforming the detailed technical specification mentioned in section III / Appendix- I of the tender document. The details of the offered buses are as follows.

Sl. No.	Details of Bus	Model	Name of Manufacturer	Country of Origin
1				

Date :

Office seal

Signature of the  
tenderer/Authorized  
signatory

**Annexure -D**

(Proforma of Certificate be furnished along with Technical Bid)

**PERFORMANCE EVALUATION SHEET**

Sl No.	Parameter	Remarks
1	Model / Type	
2	Range of the vehicle	
3	Seating capacity	
4	No. of Buses supplied	
5	Supplied STU's Name	
	Performance evaluation for the last financial year	
1	No. of Buses performance evaluated	
2	Total Km covered during last one year	
3	Average KMPKWH	
4	Break down rate for 10000 km	
5	Off road rate in %	

Place:-

Date:-

Signature

Name & Address of the Tenderer

**Seal**

**ANNEXURE - E**

(Proforma of Certificate be furnished along with Technical Bid)

**SPECIFICATIONS OF FULLY BUILT NON-AC ELECTRIC BUS****LATEST AS PER CMVR NORMS**

<b>SL. NO</b>	<b>CHARACTERIST ICS</b>	<b>SPECIFICATION DETAILS</b>	<b>COMPLIANCE STATUS IN YES / NO</b>	<b>REMARKS IF ANY</b>
1)	Type of buses	ELECTRIC BUS TYPE I		
2)	Type of application	CITY		
3)	Range in Single Charge for 80% soc as per AIS 040, CMVR 124) Throughout the entire 5year period.	120 km(minimum)		
4)	Energy Consumption	<1.0 Kwh/ Km		
5)	Charging Device	It should be supplied by bidder Fast charger – 50%		
6)	No. of charging Device	One charging device for every two bus		
7)	Length of buses	8500mm to 9500mm		
8)	Floor height	400MM preferred upto 650 mm		
9)	Overall width	2600 (maximum)		
10)	Overall height	3800 (maximum)		
11)	No. of seats	30 +1D (minimum)		
12)	Type of seat	City bus		

13)	No. doors	2 nos.		
14)	Front Door-1	At front ahead/behind axle (Power operated - Driver controlled)		
15)	Center door	Between axles- 1000 mm wide for rapid movement of passengers (Power operated - Driver controlled)		
16)	Positions of door controls	Should be on dashboard for driver control and emergency switch inside & outside of doors as per AIS 052		
17)	Power operated service door-construction & control system of a power operated service door to be such that a passenger is unlikely to be injured/ trapped between the doors	As per AIS 052		
18)	Front Suspension	Weveller /Air suspension		
19)	Rear suspension	Air suspension		
20)	Steering system	Power assisted		
21)	Charging mode	AC Charging (Suitable		

		for fast charging also)		
22)	Electric Horn	24 V as per IS.1884:1993 Matched Pair (Low & High tone)		
23)	Braking system	Power assisted disc/drum brakes		
24)	Anti-skid anti-locking brake system (ABS)	As per CMVR required		
25)	Public Information System	Required as per AIS052		
26)	Speed limiting device	There shall be provisions for limiting the vehicle speed at any value as per relevant KMVR and as required by KSRTC.		
27)	Tyres	Radial/Tubless Tyre - 6 +1. (As per type approval)		
28)	Front overhang	As per CMVR		
29)	Rear overhang	As per CMVR		
30)	Emergency doors/exits or apertures (numbers) and dimension in mm	As per AIS 052		
31)	Design type approval	As per AIS 052		
32)	Bus structure-	GI/Anti corrosion		

	materials specs etc.	treated ERWCR Steel Materials as per Type approval		
33)	Maximum first step height	400mm		
34)	Grab rails, Centre posts and passenger slings	Stainless steel pipe of 32mm & 2mm thick for Grab rail, Centre post and should provide passenger slings at necessary points.		
35)	Foot step	Lower foot step should have retractable facility for differentially disabled		
36)	Panel beading	As per AIS 052		
37)	Roof grab rail brackets	As per AIS 052		
38)	Floor material	As per AIS 052		
39)	Front windscreen (laminated) glass:	Single piece laminated safety glass, with PVB film interlayer as per IS 2553 (part-2)-1992/latest		
	Glass Fitment	Front wind shield glass shall be fixed by EPDM Rubber beading. Beading less fitment is not acceptable in case of front glass.		
	Size & design of glass	Standard designs and also as per table 22 of AIS 007		

40)	Rear windscreen glass	Single piece flat toughened glass-IS:2553 (part-2)-1992/latest		
	Glass Fitment	Shall be fixed by EPDM rubber beading.		
	Size of glass	Standard designs as per the Proto-type approved by KSRTC should be supplied in the entire supply of buses for each variant of buses.		
41)	Side windows:	Flat two piece design-top fixed and bottom sliding toughened tinted glass. As per AIS 068		
42)	Glass specifications	Toughened tinted glass IS 2553 (part-2)-1992/latest		
	Glass thickness:	As per AIS 052		
	Colour of glass	As per CMVR 100		
43)	Rear view mirrors	As per AIS 052		
44)	Fitment of Rear view mirror	Stainless steel C-brackets, Left side rear view mirror should be visible to driver through Front Wind Screen glass(Compulsory)		
45)	Mirrors right/left	Convex as per AIS 001		

	side exterior /interior:	& 002. Interior mirror with double curvature		
46)	Seat layout	2 x 2		
47)	Seat area /seat space per passenger (width* depth)	As per AIS 052		
48)	Seat pitch- minimum	As per AIS 052		
49)	Seat back rest height	As per AIS 023		
50)	Passenger seating	As per AIS 052 & AIS 023.		
51)	Seat materials	Cushioned seat with PU foam covered with artificial Leather upholstery [ Compliance of Flammability requirements as per IS 15061:2002 ]		
52)	Seat frame structure material	Powder Coated ERWCR steel tube.		
53)	Back rest Materials	As per AIS052 with back rest, head support and seat cushion [compliance of flammability requirement IS15061:2002]		
54)	Orientation of	All seats should be fitted		



	seats	forward looking		
55)	Number of seats	Minimum 30 +1D		
56)	Seat back rest	Required, Fixed type		
57)	Sun visor	Required (Good quality durable and easily operatable)		
58)	Seat belts & their anchorage	As per AIS 052. should be provided to all seats where there is no provision for grab support in front.		
59)	Driver seat	AIS 023 and AIS 052		
60)	Driver's working space	As per AIS 052, also proper air ventilation facility to be provided for driver with bottle holding clamp facility.		
61)	Corrosion prevention treatment	As per clause 3.17 of AIS 052		
	Internal surfaces of structural members			
	External surfaces of structural members			
	After drilling holes/welding			
62)	Primer coating	As per clause 3.17 of AIS 052		
63)	Body Painting:	PU Paint to be used		
64)	Body Colour and	Will be given by KSRTC		

	Design			
65)	Electrical system, electrical cables and conductor cross section	BIS marked, copper conductors with fire retardant insulation as per IS/ISO: 6722:2006. Conductor cross-section varying as per circuit requirements, minimum cross-section 0.5 sq mm.		
66)	Fuse	As per AIS 052		
67)	Isolation switches for electrical circuits where RMS value of voltage exceeds 100 volts	As per AIS 052		
68)	Location of cables away from heat sources	As per AIS 052		
69)	Type approval of circuit diagram as per standards related to electric equipment/wiring	As per AIS 052		
70)	Battery (starting battery) cut - off switch (isolator switch):	Shall be positioned near driver seat for easy and quick operation by driver.		
71)	Wind screen	As per table 22 of AIS		

	wiper:	007		
72)	Wiper motor:	Variable speed with time delay relay as per AIS 11		
73)	Wiper arm/blade:	As per AIS 019/AIS 011		
74)	Power ports for ETM charging	Requires one ETM charging point with ETM holder in driver cabin. DC to AC converter should be provided.		
75)	Lighting- internal & external and illumination	As per AIS 052 and all interior lights should be LED Type, OE fitting preferred in case of head lamp and tail lamp.		
76)	Dash board lighting/control lighting	As per AIS 052		
77)	Driver seat belt & anchorage duly type approved.	As per CMVR & AIS 052 conforming to AIS 005 & 015		
78)	Fire extinguisher:	As per AIS 052/CMVR/KMVR		
79)	First aid box:	Required -1Nos (Fixed metallic box as per provision of CMVR		
80)	Handholds:	As per AIS 052, fixed type preferred.		
81)	Stanchions:	As per AIS 052/CMVR.		
82)	Window guard	As per AIS 052/CMVR.		

	rails:			
83)	Entrance/exit guard/step well guard:	As per AIS 052, step well guards as per Type Approval.		
84)	Emergency exit doors, warning devices etc.	As per AIS 052 /CMVR No seats shall be fitted obstructing the free access to emergency door. One grab rail to be provided above the emergency door. Foot rest cum guard to be provided in front of seats behind emergency door.		
85)	Front/rear door, step well lights, door open sign	LED bulb as per AIS 008		
86)	Towing device front/rear	AS per CMVR & IS 9760-ring type		
87)	Warning triangle	As per AIS 052/CMVR		
88)	Bumpers-front and rear	As per AIS 052, Detachable type, easily removable in order to have access to repair the aggregates.		
89)	Luggage Box / Courier Box	As per AIS 052 and mutually agreed by the KSRTC and bidder with scope for maximum space for the provision of courier		

		transportation.		
90)	Electronic Ticketing Machine (ETM) Box	One box with lock and key should be provided to keep it safely while putting in charge.		
91)	Inside luggage carrier	As per AIS 052		
92)	Roof hatch	3 nos. to be provided (Front-1No- openable to front and Rear-1No- openable to rear)		
93)	Mobile Charging unit	5 Nos. (minimum) of mobile charging unit should be provided with sufficient lock and key facility.		
94)	Stay box for crew	To be provided with locking facility and accessible from driver cabin. It should be enough spacious to keep the essentially belongings of crew.		
95)	Warranty	The Fully Built ELECTRIC Bus offered should have a warranty for a period of 2 Years/ 2 Lakh Km which ever comes earlier, in respect of Chassis parts, Traction motor, battery pack for		

		<p>vehicle propulsion, and any other related systems and Body Building Materials and all kinds of consumables required to run the bus. . ie, aggregate and bus body items provided in these buses due to defective design, material or workmanship from the date of registration of the vehicle.(Only normal wear of tyres, accident repairs of body, bus washing are excluded from warranty)</p>		
96)	Destination Board	<p>Alpha Numeric Display Technology- Amber coloured LED based electronic display system in English Hindi and Malayalam. (Comply as per AIS 052 and CMVR). Vertically scrolling/falling type preferred, Front 1800 x 330mm size, Rear 1200 x 330 Single control for both destination boards and control unit in Driver Cabin and one</p>		

		board of dimensions 1800 x 330mm size at the top behind the driver cabin. All boards should easily programmable and should compatible with the PIS system.		
97)	Driver Cabin Separation	Should be separated from passenger saloon as per AIS 052 Stainless steel tube structure, fencing type. This separation should not restrict the driver seat position adjustments.		
98)	Driver Cabin Fan	A suitable good quality durable fan to be provided in the driver cabin to fan the driver.		
99)	Accessories	Fully equipped tool kit containing Tommy bar, Wheel spanner, Screw driver (heavy duty), cutting pliers, pipe wrench and Hydraulic Bottle Jack 10 Ton (Minimum Capacity).		
100)	Bus Chargers	One charging unit should be supplied for every 2 buses, and		

		installed at the location suggested by KSRTC.		
101	Proper access to repair and maintenance points of various vehicle components	There shall be easy and quick access to all under chassis components which require repair and maintenance such as suspension, steering, brake, electric motors, battery etc.		
102	Paneling Materials	As per AIS 052( Table 22 of AIS007)		
103	Conductor bell	String type required		
104	Positioning of switches	All light control switches shall be positioned on the right side top of the driver seat.		
105	Conductor seat	Shall be provided separately as independent seat near the rear foot board.		
106	Vehicle location tracking device and emergency button	Complying AIS 140 and as approved by KMVD with IRNSS, models with minimum 5 panic buttons necessary software shall also be supplied for Vehicle Tracking, Energy consumption monitoring, PIS and other performance		



		reports and must be integrated with KSRTC applications.		
107)	Certifications	<p>Comply with</p> <p>a) CMVR and KMVR requirements</p> <p>b) Type approval certificate by any authorized agency in CMVR 126</p> <p>c) Compliance to strength of super structure- AIS 031</p> <p>d) Compliance to Bus Body Code AIS 052 &amp; ITS AIS:140</p> <p>e) Compliance of flammability requirements as per IS 15061:2002</p> <p>f) Certificate issued by ARAI</p>		
108)	Stage inspection of prototype bus by KSRTC team at the production site	<p>1. After the completion of super structure (before paneling and fixing of platform)</p> <p>2. After completion of whole work. The supplier should make arrangements for the inspection timely.</p>		

Place:-

Date:-

Signature

Name & Address of the Tenderer

**Seal**

**ANNEXURE - F**

(Proforma of Certificate be furnished along with Technical Bid)

**CERTIFICATE**

This is to certify that the rate quoted against the e-Tender NIT No. SRA1/001003/2021 dtd: **07.09.2021** for the supply of **FULLY BUILT NON-AC ELECTRIC BUS** will be firm for 12 months from the date of offer / entire supply period.

Signature:

Name & Address of the Tenderer

Place:

Date:

(Seal of the Tenderer)

**ANNEXURE - G**

**DECLARATION**

(Proforma of Certificate be furnished along with Technical Bid)

**(Proforma of declaration to be furnished in Government Stamp  
Paper of Rs.200/-)**

To

The Chairman and Managing Director  
Kerala State Road Transport Corporation,  
Transport Bhavan, Thiruvananthapuram,  
Kerala

Sir,

Sub: e-Tender for the Supply of **FULLY BUILT NON AC  
ELECTRIC BUSES** - reg.

Ref: Your **Tender No. SRA1/001003/2021 Dtd:07.09.2021**

We here by declare that the rate quoted by us against your Tender under reference above are the lowest.

We also declare that we will not supply Buses as per models given under reference, to anybody at a rate lesser than the rate quoted to you against your above cited tender for the next 12 months. In the event of supplying the Buses at the rates lesser than the quoted rate in this tender, we agree to reimburse the difference amount to KSRTC, unconditionally.

**Signature:**

**Name and Address of the Tenderer**

**Place:**

**Date:**

**(Seal of the Tenderer)**

# KERALA STATE ROAD TRANSPORT CORPORATION

(ANNEXURE - H)

(Proforma of Certificate be furnished along with Technical Bid)

## GENERAL TERMS AND CONDITIONS FOR THE SUPPLY OF FULLY BUILT NON AC- ELECTRIC BUSES

**NIT No. SRA1/001003/2021**

**DATE: 07.09.2021**

1. The rate quoted shall be for **FULLY BUILT NON AC-ELECTRIC BUSES** for delivery at Central Works, Pappanamcode, Thiruvananthapuram including GST, Transportation charges, Insurance, Road tax Octroi, Cess and all other incidental charges. The rate quoted should be in such a way that the end rate of bus at any of our Workshop could easily be evaluated. The rate quoted shall be firm for the entire period of supply as per purchase order schedule and no price increase will be allowed during this period. **Any loss, damage etc. while on transit should be borne by the suppliers.**
2. The price offered should be firm, for a period of 12 months / entire supply period.
3. The buses are to be similar, in all respects according to the specifications shown in Notice Inviting Tender and shall be subject to the approval of the Chairman & Managing Director.
4. Chairman and Managing Director does not bind himself to accept the lowest or any offer and reserves the right to select one or more from the offers made as considered expedient.
5. The quantities noted in the tender form are approximate only. The Corporation reserves the right to reduce or increase the quantity at the time of placing the orders and will be paid at the rate agreed in the quotation.
6. All orders placed by the Corporation are to be executed within the time limit specified. In the event of accepting the contract, any

failure to supply the item on or before the specified date or in the event of the supplies being rejected, the orders are liable to be cancelled.

7. In case the supply is not made within the stipulated time and as per the P.O. conditions, the Corporation will cancel the order and procure the bus from any other source at the risk and cost of bidder. The KSRTC may deduct the difference in rate between the order rate and the rate actually paid for from the supplier's bill or from any money that may be due or become due to them or by initiating legal steps including revenue recovery.
8. The Chairman and Managing Director may reject any or all the supplies made which he consider not suitable for the purpose for which they are ordered for or because they are of inferior quality or not up to or in accordance with the specifications shown in the Tender Notice and his opinion in the matter will be final and not liable to be questioned by the firm or any one on his behalf. Rejected articles should be taken back by the bidder at his own cost.
9. There shall not to be more than one financial offer in a financial bid for one item.
10. The successful bidder has to execute an agreement as per the Kerala Store Purchase manual after furnishing Security deposit of equivalent to 5% of the total value of purchase of entire order quantity of buses awarded to them and for AMC separately which is shown in Annual Maintenance Contract
11. Supply Schedule & Payments :-
  - a) Total quantity should be supplied as per the supply schedule mentioned in the Purchase Order.
  - b) Payment will be made only after 30 days of receipt and acceptance at the delivery point specified in the Purchase Order as per clause 4.1.6.

This form should be signed, sealed and returned to this office along with the tender form.

I/We here by accept the above terms and conditions and undertake that I/ We will comply with the same.

Place:

**SIGNATURE AND SEAL OF THE TENDERER**

Date:

**WITH FULL ADDRESS AND DATE**

**SEAL**

**(Authorized signature)**

**Annexure – I**

(Proforma of Certificate be furnished along with Technical Bid)

**(Proforma of declaration to be furnished in a Indian Stamp  
Paper of Rs. 200/-)**

**{Notarization is Mandatory}**

Format of self certificate stating that the Entity/Promoter/s /  
Director/s of Entity are not blacklisted

**Anti-Blacklisting Certificate**

Tender No:

Date:

M/s..... (Name  
of the Bidder), (the names and addresses of the  
registered office) hereby certify and confirm that we or  
any of our promoter/s / director/s are not barred by State  
Government / any other Government entity or blacklisted  
by any state government or central government /  
department / Local Government / agency in India or from  
abroad from participating in Project/s, as on  
the.....(Last date of submission of Bid).

We further confirm that we are aware that our  
Application for the captioned Project would be liable for  
rejection in case any material misrepresentation is made  
or discovered with regard to the requirements of this  
tender at any stage of the Biding Process or thereafter  
during the agreement period. Dated this  
.....Day of ....., 2021

Name of the Bidder

**Signature of the Authorized person Name of the  
Authorized Person**

(Seal of the Tenderer)

**Annexure - J**

(Proforma of Certificate be furnished along with Technical Bid)

**POWER OF ATTORNEY**

(On a Stamp Paper of relevant value)

I/ We.....(name and address of the registered office) do hereby constitute, appoint and authorise Sri/Smt .....(name and address) who is presently employed with us and holding the position of ..... As our attorney, to act and sign on my/our behalf to participate in the tender No.....for **FULLY BUILT NON AC-ELECTRIC BUSES.**

I/ We hereby also undertake that I/we will be responsible for all action of Sri/Smt..... undertaken by him/her during the tender process and thereafter on award of the contract. His / her signature is attested below

Dated this the \_\_\_ day of  
2021

For \_\_\_\_\_

(Name, Designation and  
Address)

Accepted

\_\_\_\_\_(Signature)  
(Name, Title and Address of the Attorney)

Date: \_\_\_\_\_



**Annexure-K**

**(Proforma of declaration to be furnished in Indian Stamp paper worth Rs. 200/-)**

**Declaration**

Tender No..... Dated .....

We,

M/s

.....  
.....

(Name and registered address of the bidder) hereby undertake unconditionally that the battery powered electrical buses offered in this tender will run for 120 Km in single charging in actual load / traffic conditions existing in KSRTC. We understand that the range in kilometer is highly critical in the service operation and hence we unconditionally agree that, if the range falls below this, we will instantly do the required rectification work / arrangements to maintain the range at 120 Km itself during the entire span of warranty and AMC period. Dated this ..... Day of .....2021

Name of the Bidder :

**Signature of the Authorized person Name of the Authorized Person.**

(Seal of the Bidder)

## **Annexure-L**

**(Proforma of declaration to be furnished in Indian Stamp paper worth Rs. 200/-)**

(Proforma of Certificate be furnished along with Technical Bid)

### **UNDERTAKING FOR THE SUPPLY OF BATTERY PACK FOR PROPULSION**

We, M/s.....here by agree that we will be ready to replace the battery pack for propulsion FREE OF COST during the warranty period and AMC period and on later occasions ready to supply battery pack for propulsion at the rate quoted in the tender or at the market rate prevailing at the time of requirement, whichever is lower within the entire life span of the bus subject to a maximum of 20 years. In the event if we are not ready or unable to supply battery pack for propulsion of these buses at the rates specified above, Corporation will have the absolute right to source the battery pack for propulsion from any source at our risk and cost. We here by assure that we will do the required adaptation works in the bus electrical system to accommodate the batteries procured by Corporation on its own.

Date:-

Signature

Name & Address of the Tenderer

**Seal**

### **Annexure-M**

**Undertaking regarding Type Approval Certificate** under Central Motor Vehicle Rule 1989 of Government of India (CMVR 1989) of the offered Model. **(In Indian Stamp Paper worth Rs.200/-- Notarized)**

#### **Undertaking**

We, M/s- -----, the manufacturer of Fully Built Electric buses in **e-tender No** ----- dated -----  
----- **[TENDER No. SRA1/001003/2021 dtd: 07.09.2021 ]**  
unconditionally agree that we will submit the CMVR type approval certificate of the offered model of **Fully Built Non AC- Electric Buses** and meeting all the specification requirements of the above said tender at the time of delivery of first bus as stipulated in the Purchase Order. We also agree that in the event of failure to produce the CMVR type approval certificate of the offered bus variant at the time of delivery of first bus as stipulated in purchase order, our offer will be treated as invalid and in such instance the EMD amount furnished by us will be forfeited by KSRTC and if the amount is not found sufficient to compensate the costs/losses/ damages occurred to KSRTC on account of non production of CMVR type approval certificate of the offered Electric bus variant, we unconditionally agree to pay all costs / losses / damages occurred to KSRTC over and above the EMD.

***(Applicable to those bidders who do not have type approval certificate as per CMVR 1989 for the offered Electric bus model at the time of bidding)***

Name & Signature of  
Authorized Signatory of bidder

(Seal of bidder)

NB: Original to be submitted to KSRTC.

## Annexure-N

### (Undertaking for confirmation of specification offered for Electric bus in the tender)

(Proforma of undertaking to be furnished in a Indian Stamp Paper of Rs. 200/-)

{Notarization is Mandatory}

To,

The Chairman & Managing Director,  
KSRTC, Transport Bhavan, Fort,  
Thiruvananthapuram.

Sir,

Sub: Undertaking for confirmation of specification of offered  
Electric Bus in the tender – reg

Ref: NIT No. SRA1/001003/2021 dtd: 07.09.2021

We \_\_\_\_\_ represented \_\_\_\_\_  
\_\_\_\_\_ do hereby confirm that the specification of  
\_\_\_\_\_ model of Fully Built 9 meter Non – AC  
Electric bus with 25 chargers offered in the tender meet  
the specification stipulated in the Appendix-I of NIT and  
also to undertake the losses (if any) incurred to KSRTC, in  
case found at a later stage that the confirmed  
specification are not meeting.

Name of the Bidder

Signature of the Authorized person

Name of the Authorized Person

(Seal of the Tenderer)

Validity unknown

Digitally signed by DAVID A  
Date: 2021.09.07 18:43:16 ST

# അനുബന്ധം - II

SCODE	DATE	SUPPLIER	INV_NO	INV_DATE	PO_NO	PO_DATE	ITEMCODE	NAME	UNIT	QTY	VALUE
GR0500106	12-12-2022	1554	PMIE/22-23/1364	04-10-2022	SRB5/3034	29-09-2022	EVE1900	MUFFLER FILTER ELE.B	NOS	25	175552.00
GR0500106	12-12-2022	1554	PMIE/22-23/1364	04-10-2022	SRB5/3034	29-09-2022	EVE1600	AIR FILTER ELE.BUS S	NOS	25	88928.00
GR0600027	29-10-2022	1554	PMIE/22-23/1365	04-10-2022	SRA5/2006	01-10-2022	EVF5606	FRONT GREASE PACKING	KIT	50	38528.00
GR0600027	29-10-2022	1554	PMIE/22-23/1365	04-10-2022	SRA5/2006	01-10-2022	EVR5605	REAR GREASE PACKING	KIT	49	45785.60
GR0600039	12-12-2022	1554	PMIE/22-23/1362	04-10-2022	SRB5/3032	28-09-2022	EVF3700	FRONT BRAKE FRICTION	UNT	10	291993.60
GR0600038	26-12-2022	1554	PMIE/22-23/1365	04-10-2022	SRA5/2006	01-10-2022	EVR5605	REAR GREASE PACKING	KIT	1	934.40
GR0600039	30-12-2022	1554	PMIE/22-23/1363	04-10-2022	SRB5/3033	29-09-2022	EVR3701	REAR FRICTION PLATE	UNT	10	241049.60
GR0800082	19-11-2022	1554	PMIE/22-23/1418	19-10-2022	SRA3/2024	06-10-2022	EVO0901	HALOGEN BULB H-1 24V	NOS	20	1156.40
GR0800082	19-11-2022	1554	PMIE/22-23/1418	19-10-2022	SRA3/2024	06-10-2022	EVO0902	HALOGEN BULB H-11 24	NOS	40	8260.00
GR0800082	19-11-2022	1554	PMIE/22-23/1418	19-10-2022	SRA3/2024	06-10-2022	EVO0501	HEAD LIGHT ROUND MAR	NOS	20	72688.00
GR0800084	25-11-2022	1554	PMIE/22-23/1515	12-11-2022	SRA3/2024	06-10-2022	EVO0901	HALOGEN BULB H-1 24V	NOS	30	1734.60
GR0800084	25-11-2022	1554	PMIE/22-23/1515	12-11-2022	SRA3/2024	06-10-2022	EVO0902	HALOGEN BULB H-11 24	NOS	10	2065.00
GR1300036	29-12-2022	1571	SGL/633	26-12-2022	SRA1/2022	12-12-2022	ALEV608	BATTERY AND TRACTION	LTR	416	67741.44
GR1300036	29-12-2022	1571	SGL/633	26-12-2022	SRA1/2022	12-12-2022	ALEV720	STEERING OIL ATF DEX	LTR	420	98128.80
GR1300036	29-12-2022	196	761918291	28-12-2022	SRA1/2022	12-12-2022	ALEV701	HUB GREASING- HIGH T	LTR	182	80965.00
GR1300018	02-09-2022	1547	B 595	01-09-2022	SRA1/2022	27-08-2022	AL01506	REAR AXLE OIL FOR EL	LTR	420	113398.24
GR1300034	16-12-2022	1571	SGL/597	14-12-2022	SRA1/2022	12-12-2022	AL01506	REAR AXLE OIL FOR EL	LTR	420	116466.00
GR1200053	27-12-2022	717	9640269352	26-12-2022	SRA1/2021	26-11-2022	AT02504	TUBELESS RADIAL TYRE	NOS	50	767680.00
GR1300001	12-04-2023	1554	PMIE/23-24/00002	04-04-2023	SRA3/2024	03-10-2022	AGEV602	FRONT WIND SHIELD GL	NOS	5	129500
GR1300056	28-12-2023	1554	PMIE/23-24/01080	18-12-2023	SRA3/4107	01-11-2023	AGEV602	FRONT WIND SHIELD GL	NOS	8	311341
GR1300001	12-04-2023	1554	PMIE/23-24/00004	04-04-2023	SRA3/2029	17-12-2022	AGEV900	REAR GLASS 9M ELECTR	NOS	10	26231
GR0500009	14-04-2023	1554	PMIE/23-24/0007	04-04-2023	SRB5/911/	06-03-2023	EVE1600	AIR FILTER ELE.BUS S	NOS	40	142285
GR0500009	14-04-2023	1554	PMIE/23-24/0005	04-04-2023	SRB5/912/	06-03-2023	EVE1900	MUFFLER FILTER ELE.B	NOS	40	280883
GR0600002	14-04-2023	1554	PMIE/23-24/00006	04-04-2023	SRB5/3032	28-09-2022	EVF3700	FRONT BRAKE FRICTION	UNT	15	437990
GR0600001	11-04-2023	1554	PMIE/23-24/00008	04-04-2023	SRA5/2006	01-10-2022	EVF5606	FRONT GREASE PACKING	KIT	15	11558.4
GR0600039	05-10-2023	1554	PMIE/23-24/00701	11-09-2023	SRA5/2429	22-06-2023	EVF5606	FRONT GREASE PACKING	NOS	150	57792
GR0800003	13-04-2023	1554	PMIE/23-24/00003	04-04-2023	SRA3/2540	15-03-2023	EVO0901	HALOGEN BULB H-1 24V	NOS	10	578.2
GR0800073	06-10-2023	1554	PMIE/23-24/00700	11-09-2023	SRA3/2540	15-03-2023	EVO0901	HALOGEN BULB H-1 24V	NOS	70	5038.6
GR0800003	13-04-2023	1554	PMIE/23-24/00003	04-04-2023	SRA3/2540	15-03-2023	EVO0902	HALOGEN BULB H-11 24	NOS	10	2065
GR0800073	06-10-2023	1554	PMIE/23-24/00700	11-09-2023	SRA3/2540	15-03-2023	EVO0902	HALOGEN BULB H-11 24	NOS	70	14455
GR0600034	04-10-2023	1554	PMIE/23-24/00699	11-09-2023	SRB5/3033	29-09-2022	EVR3701	REAR FRICTION PLATE	UNT	15	366762
GR0600034	05-10-2023	1554	PMIE/23-24/00702	11-09-2023	SRA5/2414	08-03-2023	EVR5603	GREASE PACKING ASSY	NOS	120	11059
GR0600001	11-04-2023	1554	PMIE/23-24/00008	04-04-2023	SRA5/2006	01-10-2022	EVR5605	REAR GREASE PACKING	KIT	25	23360
GR0600039	05-10-2023	1554	PMIE/23-24/00701	11-09-2023	SRA5/2429	22-06-2023	EVR5605	REAR GREASE PACKING	NOS	200	93440
GR1300001	12-04-2023	1554	PMIE/23-24/00009	04-04-2023	SRA4/2021	06-10-2022	GDEV372	FRONT GLASS BEEDING	KGS	100	36108
GR1300043	09-11-2023	1571	SGL/639	07-11-2023	SRA1/1184	25-10-2023	ALEV608	BATTERY AND TRACTION	LTR	416	67741.44



അനുബന്ധം - III

ക്രമ നം.	പേര്	തസ്തിക	യോഗ്യത	ശമ്പളം
1	ആർ.ചന്ദ്രബാബു (GM Tech i/c KSRTC)	ജനറൽ മാനേജർ (അധിക ചുമതല മാത്രം നൽകിയിരിക്കുന്നു)	മെക്കാനിക്കൽ എഞ്ചി. ബിരുദം	KSRTC നൽകുന്നു
2	ഉല്ലാസ് ബാബു	ഡെപ്യൂട്ടി ജനറൽ മാനേജർ (ടെക്നിക്കൽ)  (കരാർ)	മെക്കാനിക്കൽ എഞ്ചി. ബിരുദം	1.10 ലക്ഷം
3	ഷിബുകുമാർ ഡി.	ഡെപ്യൂട്ടി ജനറൽ മാനേജർ (ഓപ്പറേഷൻ)  (കരാർ)	ബിരുദാനന്തര ബിരുദം	71,510/-
4	ബീനാ ബീഗം വി.കെ. (GM Finance KSRTC)	അസിസ്റ്റന്റ് ജനറൽ മാനേജർ (ഫിനാൻസ്) (അധിക ചുമതല)	FCA, MBA, M.Com	25,000/-
5	രജിത ആർ.	കമ്പനി സെക്രട്ടറി	Company Secretary	25,000/-
6	നിസ്സാർ എൻ. (ADE KSRTC)	എൻജിനീയർ (Cordination)	മെക്കാനിക്കൽ എഞ്ചി. ബിരുദം	58,716/-
7	അതുല്യ രവി	ഡെപ്യൂട്ടി മാനേജർ (അക്കൗണ്ടസ്)  (കരാർ KSRTC)	CMA (Inter)	44,000/-
8	സുമേഷ് കെ.	അസിസ്റ്റന്റ് ട്രാൻസ്പോർട്ട് ഓഫീസർ  KSRTC	MTECH	58,760/-
9	സഞ്ജയ് എൻ.എസ്.	അസിസ്റ്റന്റ് ട്രാൻസ്പോർട്ട് ഓഫീസർ  KSRTC	MTECH	58,760/-
10	ദേവി പ്രിയ	സെലക്ഷൻ ഗ്രേഡ് അസി. KSRTC	ബിരുദം	43,992/-

11	വിനോദ് ആർ.ആർ.	സ്വേഷൽ അസി. KSRTC	SSLC	61,672/-
12	കമലം എം.	ജൂനിയർ അസി. (ബദലി KSRTC)	ബിരുദം	17,160/- (715 ദിവസത്തേക്ക്)
13	ഷഫീക് എസ്.	മെക്കാനിക്സ് (KSRTC)	ITI	36,138/-
14	അജി ഡി.	മെക്കാനിക്സ് (KSRTC)	ITI	37,960/-
15	രാഹില ബീവി	എക്സിക്യൂട്ടീവ് അസിസ്റ്റന്റ് (outsourced)	SSLC	30,000/-
16	സാം വർഗീസ്	സർവീസ് എഞ്ചിനീയർ (outsourced)	മെക്കാനിക്കൽ എഞ്ചി. ബിരുദം	37,000/-
17	അരുൺ അശോക്	സർവീസ് എഞ്ചിനീയർ (outsourced)	മെക്കാനിക്കൽ എഞ്ചി. ബിരുദം	37,000/-
18	ബാലസുബ്രമണ്യം	സർവീസ് എഞ്ചിനീയർ (outsourced)	മെക്കാനിക്കൽ എഞ്ചി. ബിരുദം	37,000/-
19	രഞ്ജിത്ത് ആർ.	മെക്കാനിക്സ് (outsourced)	ITI	20,000/-
20	മുഹമ്മദ് ഷഫീക്	മെക്കാനിക്സ് (outsourced)	ITI	20,000/-
21	രഞ്ജിത്ത് ആർ.എസ്.	മെക്കാനിക്സ് (outsourced)	ITI	20,000/-
22	മണിക്കുട്ടൻ	മെക്കാനിക്സ് (outsourced)	ITI	20,000/-
23	സൈമ എ.എസ്.	Accounts (Trainee) (കരാർ KSRTC)	ബിരുദാനന്തര ബിരുദം	21,000/-



**PROFITABILITY STATEMENT OF KSRTC SWIFT ELECTRIC BUSES**

ANNEXURE I

Parameters	2022-23 (From Aug 2022)	2023-24 (Upto Dec 2023)	TOTAL
No. Of Electric Buses	50	110	
Total Km Operated (in Lakhs)	12.60	35.19	47.79
Earnings per KM	36.88	36.66	36.77
Operating Cost Per KM	26.60	27.06	26.83
<b>Operating Profit Per KM</b>	<b>10.28</b>	<b>9.60</b>	<b>9.94</b>
Non Operating Cost Per KM	3.45	1.39	2.42
Total Cost Per Km (Operating + Non Operating)	30.05	28.45	29.25
<b>Profit (Before Depreciation) Per KM</b>	<b>6.83</b>	<b>8.21</b>	<b>7.52</b>
Depreciation (Including Battery Cost) Per Km	14.27	14.27	14.27
Profit/Loss after Depreciation Per Km	-7.44	-6.06	-6.75

Total Collection (Rs in Lakhs)	464.49	1290.25	1754.75
Total Operating Cost (Rs in Lakhs)	335.05	952.37	1287.41
<b>Total Operating Profit (Rs in Lakhs)</b>	<b>129.39</b>	<b>337.89</b>	<b>467.28</b>
Total Non Operating Cost (Rs in Lakhs)	43.43	48.98	92.41
Total Cost (Rs in Lakhs) (Operating + Non Operating)	378.48	1001.35	1379.82
<b>Profit Before Depreciation (Rs in Lakhs)</b>	<b>85.96</b>	<b>288.91</b>	<b>374.87</b>
Depreciation (Including Battery Cost) (in Lakhs)	179.74	502.19	681.94
Profit/Loss after Depreciation (in Lakhs)	-93.78	-213.28	-307.06

**Details of Operating Cost (in Lakhs)**

Energy Cost	52.64	151.76	204.41
Crew Cost	232.50	662.26	894.76
Repair and Maintenance Cost	37.03	103.46	140.50
Insurance Cost	12.87	34.88	47.75
	<b>335.05</b>	<b>952.37</b>	<b>1,287.41</b>

HA  
DMS  
21/1/24

**PROFITABILITY STATEMENT OF KSRTC SWIFT ELECTRIC BUSES**

**2023-2024**

Parameters	Apr. 23	May 23	Jun 23	Jul 23	Aug 23	Sep 23	Oct 23	Nov 23	Dec 23	TOTAL
No: Of Electric Buses	50	50	50	50	107	107	110	110	110	110
Total Km. Operated (in Lakhs)	2.53	2.63	2.66	2.70	3.05	5.31	5.61	5.12	5.59	35.19
Earnings per KM.	34.65	39.71	41.05	41.26	40.86	32.82	33.71	37.29	35.60	36.66
Operating Cost Per KM	26.37	26.89	26.98	26.66	28.40	26.48	26.42	28.44	26.89	27.06
<b>Operating Profit Per KM</b>	<b>8.28</b>	<b>12.82</b>	<b>14.07</b>	<b>14.60</b>	<b>12.46</b>	<b>6.34</b>	<b>7.29</b>	<b>8.84</b>	<b>8.71</b>	<b>9.60</b>
Non Operating Cost Per KM	1.19	1.42	1.57	1.13	3.36	0.84	1.05	1.47	1.23	1.39
Total Cost Per Km (Operating + Non Operating)	27.56	28.32	28.55	27.79	31.76	27.32	27.47	29.91	28.12	28.45
<b>Profit (Before Depreciation) Per KM</b>	<b>7.09</b>	<b>11.40</b>	<b>12.51</b>	<b>13.46</b>	<b>9.10</b>	<b>5.50</b>	<b>6.23</b>	<b>7.38</b>	<b>7.47</b>	<b>8.21</b>
Depreciation (Including Battery Cost) Per Km	14.27	14.27	14.27	14.27	14.27	14.27	14.27	14.27	14.27	14.27
Profit/Loss after Depreciation Per Km	-7.18	-2.87	-1.76	-0.81	-5.17	-8.77	-8.04	-6.89	-6.80	-6.06

Total Collection (Rs in Lakhs)	87.56	104.27	109.05	111.22	124.73	174.30	189.18	191.07	198.86	1290.25
Total Operating Cost (Rs in Lakhs)	66.64	70.61	71.67	71.87	86.69	140.62	148.29	145.75	150.23	952.37
<b>Total Operating Profit (Rs in Lakhs)</b>	<b>20.92</b>	<b>33.66</b>	<b>37.38</b>	<b>39.35</b>	<b>38.04</b>	<b>33.68</b>	<b>40.89</b>	<b>45.32</b>	<b>48.64</b>	<b>337.89</b>
Total Non Operating Cost (Rs in Lakhs)	3.01	3.74	4.16	3.06	10.27	4.46	5.90	7.52	6.88	48.98
Total Cost (Rs in Lakhs) (Operating + Non Operating)	69.64	74.35	75.83	74.93	96.96	145.08	154.19	153.26	157.11	1001.35
<b>Profit Before Depreciation (Rs in Lakhs)</b>	<b>17.91</b>	<b>29.92</b>	<b>33.22</b>	<b>36.30</b>	<b>27.77</b>	<b>29.22</b>	<b>34.99</b>	<b>37.80</b>	<b>41.76</b>	<b>288.91</b>
Depreciation (Including Battery Cost) (in Lakhs)	36.06	37.47	37.91	38.47	43.56	75.79	80.09	73.12	79.72	502.19
Profit/Loss after Depreciation (in Lakhs)	-18.15	-7.54	-4.68	-2.18	-15.78	-46.57	-45.10	-35.32	-37.96	-213.28

**Details of Operating Cost (in Lakhs)**

Energy Cost	9.44	10.39	11.80	12.20	13.21	21.15	24.15	22.88	26.55	151.76
Crew Cost	47.36	50.10	49.65	49.34	59.45	98.80	102.60	102.75	102.20	662.26
Repair and Maintenance Cost	7.43	7.72	7.81	7.93	8.97	15.62	16.50	15.07	16.42	103.46
Insurance Cost	2.41	2.41	2.41	2.41	5.05	5.05	5.05	5.05	5.05	34.88
	<b>66.64</b>	<b>70.61</b>	<b>71.67</b>	<b>71.87</b>	<b>86.69</b>	<b>140.62</b>	<b>148.29</b>	<b>145.75</b>	<b>150.23</b>	<b>952.37</b>

**PROFITABILITY STATEMENT OF KSRTC SWIFT ELECTRIC BUSES**

**2022-2023**

Parameters	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	TOTAL
No: Of Electric Buses	25	25	25	30	40	40	40	50	50
Total Km Operated (in Lakhs)	0.90	0.93	1.07	1.40	1.82	2.02	1.91	2.55	12.60
Earnings per KM.	29.86	33.83	34.66	38.09	38.60	37.80	38.27	37.72	36.88
Operating Cost Per KM	26.58	27.65	27.04	28.77	27.79	25.07	25.51	26.02	26.60
<b>Operating Profit Per KM</b>	<b>3.29</b>	<b>6.18</b>	<b>7.62</b>	<b>9.32</b>	<b>10.81</b>	<b>12.73</b>	<b>12.77</b>	<b>11.70</b>	<b>10.28</b>
Non Operating Cost Per KM	9.01	4.09	9.07	2.59	1.81	1.71	1.91	3.05	3.45
Total Cost Per Km (Operating + Non Operating)	35.59	31.74	36.10	31.36	29.61	26.78	27.42	29.08	30.05
<b>Profit (Before Depreciation) Per KM</b>	<b>-5.73</b>	<b>2.09</b>	<b>-1.45</b>	<b>6.73</b>	<b>9.00</b>	<b>11.02</b>	<b>10.85</b>	<b>8.65</b>	<b>6.83</b>
Depreciation (Including Battery Cost) Per Km	14.27	14.27	14.27	14.27	14.27	14.27	14.27	14.27	14.27
Profit/Loss after Depreciation Per Km	-20.00	-12.18	-15.72	-7.54	-5.27	-3.25	-3.42	-5.62	-7.44

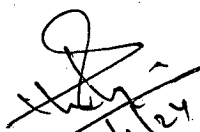
Total Collection (Rs in Lakhs)	26.95	31.60	36.94	53.37	70.13	76.19	73.01	96.31	464.49
Total Operating Cost (Rs in Lakhs)	23.98	25.83	28.81	40.31	50.50	50.52	48.65	66.44	335.05
<b>Total Operating Profit (Rs in Lakhs)</b>	<b>2.97</b>	<b>5.77</b>	<b>8.12</b>	<b>13.06</b>	<b>19.64</b>	<b>25.66</b>	<b>24.35</b>	<b>29.87</b>	<b>129.39</b>
Total Non Operating Cost (Rs in Lakhs)	8.13	3.82	9.66	3.63	3.30	3.45	3.65	7.79	43.43
Total Cost (Rs in Lakhs) (Operating + Non Operating)	32.12	29.65	38.48	43.94	53.79	53.97	52.30	74.23	378.48
<b>Profit Before Depreciation (Rs in Lakhs)</b>	<b>-5.17</b>	<b>1.96</b>	<b>-1.54</b>	<b>9.43</b>	<b>16.34</b>	<b>22.22</b>	<b>20.70</b>	<b>22.08</b>	<b>85.96</b>
Depreciation (Including Battery Cost) (in Lakhs)	12.88	13.33	15.21	19.99	25.93	28.76	27.22	36.43	179.74
Profit/Loss after Depreciation (in Lakhs)	-18.04	-11.37	-16.75	-10.56	-9.58	-6.54	-6.52	-14.36	-93.78

**Details of Operating Cost (in Lakhs)**

Energy Cost	3.90	4.25	4.58	6.16	7.69	7.65	7.61	10.81	52.64
Crew Cost	16.25	17.65	19.92	28.84	35.55	35.04	33.53	45.72	232.50
Repair and Maintenance Cost	2.65	2.75	3.13	4.12	5.34	5.93	5.61	7.51	37.03
Insurance Cost	1.18	1.18	1.18	1.18	1.91	1.91	1.91	2.41	12.87
	<b>23.98</b>	<b>25.83</b>	<b>28.81</b>	<b>40.31</b>	<b>50.50</b>	<b>50.52</b>	<b>48.65</b>	<b>66.44</b>	<b>335.05</b>

## ANNEXURE 4

Details of Amount paid and payable for Bus purchase (Electric)		
Particulars	Amount paid	Amount Payable
PMI from KIFB Fund (50 Bus)	462,199,300	0
EICHER from Smart City Fund (60 Bus)	336,590,100	224,393,400
PMI from Smart City Fund (20 Bus)	36,755,936	147,023,744
	<b>835,545,336</b>	<b>371,417,144</b>

  
31/1/24  
DMA