

## RAJASTHAN STATE ROAD TRANSPORT CORPORATION

Parivahan Marg, Chomu House, Jaipur-302001 (Raj.), Telephone No. 0141-2374644

# CORRIGENDUM FOR BID FOR HIRING OF 2x1 (NON AC SLEEPER), 2x2 (STAR LINE) AND 3x2 (BLUE LINE) BS-VI BUSES

#### **REVISED DATES**

S.N	HEAD	NEW DATES
1	BID SUBMISSION STRAT	28-02-2023 (11.00 hrs)
2	BID SUBMISSION END DATE	09-03-2023(15.00 hrs)
3	OPENING OF TECHNICAL BID	10-03-2023 (11.00 hrs)

S. N.	Page / Section & Clause No.	Description of the Condition	Query raised by the Bidder	Clarification/ Comments by RSRTC
1	Pg. 46	Point No. 29 Payment Schedule:	Payment Schedule should be fixed for every month. Due to previous records, we are facing problem to get loans from the bankers, Escrow Accounts are must for that. Without A fixed payment schedule tender will be collapse. Please mention fixed payment dates as in agreement. fifty percent payment should be released immediately on submission of bills.	माह समाप्ति उपरान्त किराये की राशि का भुगतान अनुबंधित वाहन स्वामी द्वारा आगार में देयक उपलब्ध करने एवं आगार में देयकों का प्रमाणीकरण होने के उपरांत भुगतान हेतु आगार द्वारा मुख्यालय को निर्धारित प्रारूप में सूचना माह के अंतिम कार्य दिवस को प्रेषित की जावेगी। मुख्यालय द्वारा फण्ड की उपलब्धता के आधार पर

			Diesel Average should be reduced and minimum kilometers should be	S.No.	Bus Category	KM Description	
	Pg. 31 &	Pg. 31 – Point no. IX Pg. 41 – Point No. 7,	increased.	01 02	3x2 2x2	Min. assured KM 400     For 401 to 500 KM offered rate will	
_	41	8 8		02	2.8.2	reduced by 10%.	
				03	2x1	3. For 501 & above KM offered rate will reduced by 15%.	
3	Pg. 47	Point No. 30	Diesel & rent Should be given till every breakdown point. Corporation uses the vehicles and also make collection from the passengers. For example, sometimes vehicle got breakdown in the 2 <sup>nd</sup> day of rotation after cover more than five hundred kilometers then vehicle will be responsible for the penalty of more than nine thousand rupees. On one side vehicle gave the collection of five hundred kilometers to the corporation on the other hand vehicle owner bears penalty of nine thousand for those operated kilometers, which is the burden as equal to the three non-operational day of that vehicle. So rent and diesel should be granted	will reduced by 15%.  In case vehicle completed one day's schedule in two days rotation and got breakdown in 2 <sup>nd</sup> day than the diesel and per kilometer rate for first day's operation will be given to operator but the curtailment of schedule of 2 <sup>nd</sup> day will be penalize as per condition 16 of the agreement.			
4	Pg. 45	Point No. 22	In case of Diversions due to formation of road & cities and agitations, vehicle completes their rotations through another route and covers extra kilometers than actual rotation kilometers. Corporation should verify these kilometers on the behalf of conductor remarks, diesel and rent	In case of Diversions due to formation of road & cities agitations, vehicle completes their rotations thro another route and covers extra kilometers than a verification from conductor, only diesel will be provided RSRTC for actual operated kilometers. No extra paym will be made to operator.			

ĺ				should be given.	
	5	new		Leave Applications should be accept on email also. We can gave our intimation to depot. So Responsibility of Depot management should be fixed to arrange the vehicle instead on contract vehicle. Depot officer makes note sheets as absent even after our email or applications	Only, the leave application through e-mail will be accepted by the depot management which is delivered from 9 hrs. prior to the departure time of schedule.
	5	Pg. 45	Point no. 22	Late Penalty Should not be imposed. Because vehicle can be late due to road conditions, overload and late departures.	The late penalty due to road condition, traffic jam, diversion of routes by local administration etc. will be invoked, only after verification of conductor.
	7	Pg. 45	Point no. 41	Diesel and rent should be given to the OCV for the delivery of stationary and to get parts and tires from store.	If contractual vehicle is used for official use of RSRTC such as collect stationary, tyres etc. then diesel will given for these extra kilometers and will be treated as dead kilometer but no extra payment will be made for these kilometers.
	8	Pg. 4	Eligibility Criteria	Net Worth: 2 cr. Net worth mentioned for last 3 years on blacklisting part, But on Schedule. A form It is mentioned as 2 CR for last 2 Years. Please clarify the duration.	Net worth will be Rs. 25 Lakh per bus and maximum net worth will remains same i.e. Rs. 2.00 Cr.
	9	Pg. 30	Point no. VI	Time Period should be more than 120 days for body formation. Penalties should also be reduced.	For delay in delivery schedule, Late penalty will be Rs 2500/- per day per bus for first 10 days and then Rs. 5000/- per day per bus will be charged for each day of delay. The maximum limit of penalty will be Rs. 75,000/- per bus. The permissible maximum delay with penalty will be forty-five (45) days after that the bid will be treated cancelled and the EMD deposited by the vender will be forfeited.  In case delivery schedule suffered from any reason which is covered under Force Majeure Clause then on the written request

				from the vendor RSRTC reserves the right to extend the delivery schedule
10	Page no 16 Point no (g)	and asked to execute an agreement in the format given in the bidding documents on a non-judicial stamp of requisite value.	Need more clarity on the costs	The agreement will be done on non-judicial stamp paper of Rs. 1000/- only.
1:	Page no 36 Point no xxiii	With the compliance of RTPP Rule 2013, the repeat order for the buses, other than the ordered quantity can always be placed on the same rates, terms & conditions and broad specifications, during the period of three years from the date of signing of Agreement, if the Corporation so decides.  The Contractor shall be bound to accept the same or else shall have its EARNEST MONEY and SECURITY deposit forfeited	Three-year period is quite high and Capital costs cannot be predicted. Also cannot predict obsolescence and Government's policies.  One year would be okay.	The period for repeat order will be as per RTPP act i.e. contractual period.

12		For the purpose of reckoning the minimum guaranteed Km., the cancelled Km. on account of mechanical break downs, traffic congestion due to morchas, festivals, floods, accidents etc. being beyond the control of RSRTC shall be deducted. The guaranteed Km. will be proportionately reduced when the bus is not available on any day or part thereof.	Traffic Congestion due to Morchas, festivals, floods are also beyond the control of the Operator. Need relaxation on this please.	The late penalty due to road condition, traffic jam, diversion of routes by local administration etc. will be invoked, only after verification of conductor.
13	Page no 43 Point no 16	Revenue loss due to Non availability of buses for operation	Which defines the various performance parameters with allowable breakdowns, loss of kms, bus late, bus not turned out, etc. has not been included in the RFP.  In such a situation it would be unfair upon the authority to deduct revenue losses from the Operators' bills. Request to define with clarity on SLA parameters please	Provisions for rest, break down, bus late & accident etc. are already defined in condition no 13, 16, 18, 19, 20 & 22. Therefore no need to add further provisions.
14	Pg. 31 Point	Add blue in BS VI buses	As per your tender norms add blue has to be bear by the contractor, but	RSRTC will provide only Diesel.

	No. 9		as in technical point of view it is an consumable part of the vehicle as similar to HSD so It should also bear by the RSRTC, which will lead to contractor to give an competitive rate to RSRTC. As RSRTC can have add blue at very cheaper rates as compare to contractor because of bulk purchase.							
			As per tender contractor has to provide 12meter air suspension vehicle for 3x2 segment, as which is	S. No.	Category	Length	Wheel Base	Engine Power	Torque	Suspension System
15	Pg. 31 Point no. VIII	12 meter and Air suspension In 3x2	unpractical for the areas of Rajasthan. As 3x2 buses mostly run in rural areas and in these areas it Is difficult for long and suspension bus to survive. Which will also lead to many accidents and also Increase the daily maintains of the buses as compare to 10 meter weveller buses and ultimately it will Increase the rate, and will not able to provide you a competitive rate by the contractor.	01	3x2	9500mm to 10820mm		180 hp & Above	400 nm@1200 RPM to 2000 RPM	Shackle Type Multi leaf Suspension. Double acting telescopic type shock absorbers.
				02	2x2	10800mm to 12000mm	to 6000mm	Above	650 nm@1400 RPM to 2000 RPM	Front weveller & rear air
				03		11500mm to 12500mm	to	Above	650 nm@1400 RPM to 2000 RPM	suspension
16	Pg. 48	Point 40	BS-VI वाहन काफी Advance है तथा इसकी Maintenance हर जगह नहीं हो पाऐगी तथा आप द्वारा Break-Down व कई प्रकार की पेनल्टी लगाई जाती है। यह वाहन पूरा Computerized Sensor Base होने के कारण हर जगह मैकेनिक		के Break दुसार की		ने पर श	ास्ती की	गणना अनु	बन्ध के नियमों

			~ ` ` ` ` ` `	
			उपलब्ध नहीं होता है। हमें आप को	
			बेहतर सेवा देनी है, जिसके लिए रोडवेज	
			अनुबन्ध पर वाहन ले रही है, परन्तु	
			वाहन नया है और एडवान्स है। छोटा	
			सेन्सर नहीं काम करने पर वाहन नहीं	
			चलता व Start नहीं होगा, जिससे वाहन	
			Curtailment होगी तथा आप से निवेदन	
			है कि कम्पनियों द्वारा जो जानकारी में	
			आया है। उसको ध्यान में रखे और	
			पेनल्टी सेक्शन को बिलकुल हटा दिया	
			जावे। (Ashok Leylend, Tata & Eicher)	
			रोडवेज द्वारा हमें भुगतान काफी विलम्ब	
			से हो रहा है, जिसके कारण कई लोगों	
			की Civil खराब होना तथा Bankrupt	
			लोग हो गये क्योंकि रोडवेज ने अपनी	
			भुगतान शर्त को सही से पूरा नहीं किया	माह समाप्ति उपरान्त किराये की राशि का भुगतान अनुबंधित वाहन
				स्वामी द्वारा आगार में देयक उपलब्ध करने एवं आगार में देयकों का
				प्रमाणीकरण होने के उपरांत भुगतान हेतु आगार द्वारा मुख्यालय को
17	Pg 46	Point 29		निर्धारित प्रारूप में सूचना माह के अंतिम कार्य दिवस को प्रेषित की
			होते और अगर रोडवेज भुगतान समय	जावेगी। मुख्यालय द्वारा फण्ड की उपलब्धता के आधार पर
			पर ना कर पा रही है तो हमारे द्वारा	Corporation Internet Banking के माध्यम से भुगतान सुनिश्चित
			जो भी बैंक से लोन लिया गया है। उसे	कर दिया जावेगा।
			ही समय पर रोडवेज स्वयं ही भर देवे,	
			जिससे हमारी Civil ना तो खराब होवे	
			और ना ही कोई फर्म व पार्टी Bankrupt	
			होवें। भुगतान प्रक्रिया को Mandatory	

			करे, जिससे रोडवेज की छवी भी अच्छी हो इतना विलम्ब भुगतान से Fleet चलाना मुश्किल होता है।	
18			फर्म पार्टनरशिप है और 50-50 में दो पार्टनर की है तो नेटवर्थ दोनों पार्टनर की साथ में मान्य होगी या अलग-अलग की 2-2 करोड से ऊपर होनी जरुरी है।	The net worth of the partnership firm will be considered and remain condition will be the same as per Point no. 20.
19	Pg. No.12 point no. b(vi)	The Consortium should be statutory registered under Companies Act or Societies Act.		The Consortium should be statutory registered.
20		Bus Body Specifications		Schedule – "VII" is enclosed with this corrigendum for bus body specification for all categories & for colour scheme and other specification if any. Contractor will inspect RSRTC's latest model of buses in nearest depot. For camera & VTS, specifications will be provided at the time of LoI.

#### **BROAD SPECIFICATIONS**

OF

# FABRICATION OF 2x1 NON AC SLPEER PASSENGER BUS BODIES FOR THE YEAR 2022-23

#### 1. GENERAL DESIGN

Stream-lined and balanced bus body with single entrance cum – exit door in Front over hang with facing forward in 2x1 seating layout (Lower side 2x1 Seating and Upper side 2x1 Sleeper berth ) as per applicable bus body code.

#### 2. **REGULATION:**

The structure of the bus body, general appearance and seat layout etc. shall be as per latest bus body code Including AIS119 & latest CMVR.

#### 3. CHASSIS SELECTION:

Bus body shall be fabricated on chassis having wheel Base 5800mm to 6200 mm for 2x1 layout NON AC SLEEPER PASSENGER BUS.

4. BROAD SPECIFICATIONS FOR FABRICATION OF 2x1 NON A/C SLEEPER WITH PASSANGER BUS SEATS & BERTHS

(ALL DIMENSIONS IN MM)

Parameters	Dimensions

1.	Design of the 2x1 Non AC Sleeper	As per prevailing bus body code Including AIS 119		
2.	Type of chassis on which bus to be fabricated .	Chassis of wheel	base 5800-6200mm	
6	Pillar bay size (Minimum)	1820		
7	Clear width of driver door & Emergency door in structure	740		
8	clear width of saloon door in structure	840		
9	Over all Width, length & height of bus / passenger saloon	Conforming to A AIS 119 or latest Over all width	s per Bus body Code  2580 mm+/-05mm	
		Over all length	11500-12500mm +/-25mm	
		Saloon height(cross bearer to roof	2300 mm Minimum	

		stick in			
		structure )			
10	Type of structure	<ol> <li>Structure shall be duly MIG welded         , GI Tubular pipe of Minimum 2mm         thickness structure conforming to         the dimensions of bus body code.</li> <li>Additional rail of size 60x40x2 mm         shall be provided between cant rail         and window rail for support of         window section.</li> <li>Cross bearer height shall be         Minimum 200 mm for sufficient         luggage box as per bus body code.</li> </ol>			
11	Dickey/Luggage Boxes	Side dickeys and provided having a bus body code.  Rear dickey / side cover, gas spring lights for illumina provided.	Rear dickey shall be adequate space as per e dickeys with flap /shockers , locks and		

		be sealed for ingress of water and dust.
12	Type of front wind glasses screen (laminated )	Front wind screen glasses should be in one piece laminated of approx size (1350x2440), Thickness of the glass should be as per firm's own design preferably minimum 8.76 mm thick. The glass should be fixed with EPDM rubber glazing preferably
13	Rear wind screen glasses	Rear glass in one piece toughened of approx size 1690x1860x660 mm of 5.5mm thickness clear transparent fitted with EPDM rubber.
14	Window glasses	The window glasses should be of toughened & clear transparent fitted in <b>Mazda bend.</b> Separate window frame for upper berth and lower sittings shall be provided.

		Slider window bay width- centre to centre 1820 mm
		centre 1820 mm
15	Interior decoration	Interior roof top, driver cabin/compartment shall be of ABS/ACP having Minimum 3mm thickness in grey colour or finalized in prototype with proper beading at joints.
16	Passenger/ Saloon door	Manually operated swivel type door matching with the body design . Location of door to be at ahead of front axle at Left side. The opening system should be of heavy duty type for smooth , gap and rattle free operation of passenger gate .  The width of the gate shall be minimum 840 mm clear span in structure , as per bus body code
17	Emergency door	To be provided as per bus body code in the rear right side of the bus.
18	Provision of coach fans	Heavy duty fans of 8 " size without

		carbon brushes / maintenance free to be provided both side at each piller at lower side and each sleeper berth and 1 No. in driver cabin.
19	Driver cabin partition	Full partition with provision of gate to be provided between driver & passenger cabin with door closure.
20	Miscellaneous to fittings provided	(a)Conductor seat folding type and adjustable (b) First aid box (c) Suggestions box (d) FR grade Curtains shall be provided & Colour approved by RSRTC curtains (e) Fire extinguisher – as per CMVR (f) Fog lamps - 2 Nos . (g) Half seat covers
20	Safety Norms	As per bus body code AIS 052, AIS119 Fire Detection & Suppression System (FDSS) and short circuit protection / over temperature protection / lightening protection .

21	PASSENGER SEATS: As per AIS 023, to make standardization of seats in the same category of buses in the Fleet of RSRTC, these should be same as in		
	existing buses (Same category) in RSRTC fleet.		
I	No. & type of passenger  Minimum 27 reclining type high luxury adjustable seats shall be provided at lower side Seating arrangement should be as per 2x sitting layout.		
ii.	No. of seats	Minimum 27 sitting 2x1 layout at lower side.	
lii	Size of Seats	Overall width 1220 +/- 20mm for twin Overall width 610mm +/- 10mm for single seat Overall height 1100mm +/- 10 mm Inclination of seat back rest - 200mm to 250mm	
iv.	Standard accessories be provided with each seat.	i. Double grab handle at back rest ii. Coat hanger iii. Knitted magazine pouch iv. Bottle holder v. Adjustable foot rest.	

	vi. Plastic side covers vii. reclining knob viii. Head rest flap
22	During fabrication work , followings are taken care of
	➤ Mobile charger facility shall be provided in each row at both sides and upper side at each berth with inverter, if required.
	➤ LED Destination board of OEM Make shall be provided at front and rear side of size Minimum 900x200 mm shall be provided.
	➤ Passenger seat of reclining /push back type of M/S Uno Minda Harita make for 2x1sitting in Non AC Sleeper buses shall be provided as per AIS 023.
	➤ PU paint of OEM Make shall be used for colour . colour scheme shall be same as existing RSRTC buses and finalized at the time of prototype .
	➤ Original Equipment Manufacturer (OEM) means which is supplier parts / product to chassis manufacturer i.e. M/s Tata Motors Ltd., M/s Ashok Leyland, M/s VECV etc.
	➤ All Logos /Slogans/ Seat No. shall be written as directed by RSRTC.
	Curtain fitment brackets should be of heavy duty good quality.
	All door/ flaps locks shall be provided. Curtain pipes and brackets should be of heavy duty good quality.
	> FR grade Carpet shall properly fitted in rear/ Side dickeys.

- Fire extinguishers shall be provided as per bus body code and latest CMVR.
- ➤ Roof ventilations/ Escape hatches shall be provided as per bus body code.
- ➤ Provisions as per AIS 140 shall be provided.
- > Reading lamps with switches for each seat shall be provided.
- ➤ ETIM charging power socket shall be provided in driver cabin at suitable place.
- ➤ Materials used in fabrication of bus body shall be fire retardant grade (FR) as per prevailing bus body code.
- ➤ Shower test shall be carried out after completion of bus body.
- ➤ Provisions for differently abled / persons with disabilities (PWD) passengers shall be made as per bus body code.
- > Urea / Adblue tank flap opening provision shall be as suitable.
- > Top & side markers, indicators shall be as per AIS 052.
- Railway type locks shall be provided in all door, luggage box and battery box.
- Any changes / provisions may be made in bus body at any stage as per requirement of RSRTC.
- ➤ 15 Nos. sleeper berth of fire retardant skin moulded PU foam in 2x1 layout at upper side with shoe racks ,mobile charging facility, bottle stand, shall be provided.

➤ Sleeper berth –

Minimum Length 1800 mm , Minimum Width 600 mm , Minimum thickness of cushion 75 mm All dimensions shall be as per bus body code AIS 119

- ➤ There should be adequate head room; so that the passenger of sleeper berth may sit comfortably.
- Fabric of sleeper berths should be of best quality having sweat absorbing capacity and FR grade.
- ➤ Ladder shall be provided for easy reach to upper berth .the height of first step from floor shall be at a distance of 250mm to 350 mm and rest step shall be at distance less than or equal to 250 mm from first step.
- Non Ac sleeper bus shall be fitted with the Fire Detection and Suppression System (FDSS) meeting the requirements of AIS 135:2016 or latest amended.
- > The upholstery materials for sleeper buses shall be fire retardant.
- ➤ The pad materials shall be fire retardant polyurethane foam molded or plain.

LETTER WRITING AND LOGO & STICKERS

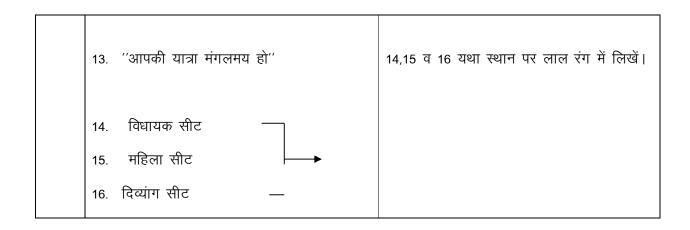
1	**राजस्थान परिवहन निगम*	* has to be	Tata Blue Fluorescent stickers
	written in HINDI on both side stretch		
	panels :-		
	main windows ii. On driver sid	or below the 2 s, e, 50mm before elow the 2 main ters shall be	
			m · Di Di · · · · · · · · · ·
li	"RSRTC" logo on both side panels, FES		Tata Blue Fluorescent stickers
	& RES has to be provide	•	
	drawings & specificatio	ns.	
lii	BS VI	BS VI in 8" dia circle has to be written, as case may be, on FES LH side	Dark Green Fluorescent sticker

lv	Name of the depot to be written on :-	- Red Fluorescent sticker with yellow
	On top of front wind screen	back ground putta 250 mm width.
	To On outer top rear dome of	
	letter size 125 mm height.	-Tata Blue Fluorescent stickers
		instead of Violet purple stickers.
V	"RSRTC" to be written on FES just	Red Fluorescent stickers
	below joint of front wind screen glasses	
	of letter size 75 mm height	
Vi	"RSRTC" logo on both side panels,	Tata Blue Fluorescent stickers
	FES & RES has to be provided as per	
	drawings & specifications.	
vii	Slogans	
	1. फर्स्ट एड बॉक्स, सुझाव पुस्तिका चालक केबिन में उपलब्ध है। —शिकायत एवं सुझाव के लिये टॉल फी न. 18002000103	1. टॉप <b>पार्टीशन</b> पर (लाल रंग में 40एमएम साईज)
	- दूरभाष नियन्त्रण कक्ष मुख्यालय, — जयपुर . फोन. 9549456745 - मुख्य प्रबन्धक न	— पार्टीशन पर स्लोगन न.1 के नीचे (काले रंग में 40एमएम साईज)

- प्रबन्धक(यातायात) न..... –
- 2. ध्रुम्रपान वर्जित है।(स्टीकर लाल रंग में)
- 3. संकट द्वार (लाल रंग में 40एमएम साईज)
- 4. ''यात्री किसी अनजान व्यक्ति से कोई वस्तु न लें''
- 5. "यात्री कोई संदिग्ध / लावारिस वस्तु को न छुये व उसकी सूचना तुरन्त चालक अथवा परिचालक को दें"
- 6. ई-टिकटिंग के माध्यम से टिकट प्राप्त करने हेतु निगम की website:
- www.rsrtconline.rajasthan.gov.in पर लोग ऑन करें।
- 8. यात्री यात्रा करने से पूर्व बुकिंग या परिचालक से उपयुक्त टिकट प्राप्त कर यात्रा करें। बिना टिकट यात्रा करने पर

- 2. चालक पार्टीशन पर ऊपर की तरफ मध्य में व ठीक इसके सामने पीछे डोम के मध्य में
- 3. संकट द्वार के गार्निश रेल के मध्य में
- 4. पार्टीशन पर सैलून में (लाल रंग में 40एमएम साईज)
- 5. पार्टीशन पर सैलून में (लाल रंग में 40एमएम साईज)
- 6. पार्टीशन पर सैलून में (लाल रंग में 40एमएम साईज)
- 7. पार्टीशन पर काले रंग में 40 एमएम साईज ।
- 8. अन्दर यात्री फाटक के ऊपर लिखें (काले रंग में 40 एमएम साईज )
- 9. अन्दर यात्री फाटक के ऊपर स्लोगन न.7 के नीचे लाल रंग में 40एमएम साईज में लिखें।

9. निगम की बसें राप्टीय धरोहर हैं। इनकी सुरक्षा करना हमारा कर्तव्य है।	10. ड्राइवर सीट के सामने टॉप डोम मध्य में अंकित करें। (लाल रंग में 40एमएम साईज)
10.''बस रूकने पर सावधानी से, आगे मुँह करके उतरें''।	
	11.In front of driver seat at front dome
11. ध्यान दें:— दुर्घटना रहित बस संचालन एवं डीजल बचत पर	
	12-
Name of the depot to be written on:-	- Red Fluorescent sticker with yellow back ground putta 250 mm width.
On top of front wind screen both the glasses of letter size 140 mm height	-Tata Blue Fluorescent stickers
On outer top rear dome of	
letter size 125 mm height.	
डिपो का नाम (उदाहरण के लिये –	
''जयपुर डिपो''	13. बाहर यात्री फाटक के ऊपर बोर्ड पर लाल
	रंग में 75एमएम साईज में लिखें।



Note 1:- RSRTC has given bus body Specifications / drawing along with this document only for references however the Bus body fabrication must be as per latest / prevailing bus body code and CMVR. If there is any discrepancy between the specifications given and bus body code, the bus body code shall prevail.

#### Note 2-

- 1. Regarding VTS & Panic button, cameras etc as per AIS 140, specification and comment would be appropriate to be taken from the IT section of RSRTC.
- 2. Buses with LED destination board or without LED Destination board decision may be taken at the level of traffic department
- 3. For the slogan to be written inside the buses, it would be appropriate to include the points mentioned in this Documents after checking and approval from the Traffic Section of RSRTC.
- 4. If fans required in passenger saloon, then decision may be taken.

5. Seat Nos for persons with disabilities (PWD) , Ladies seat with pink colour, MP/MLA , senior citizens etc shall be confirmed by traffic section of RSRTC.

General Manager (B/B)

#### **BROAD SPECIFICATIONS**

OF

### FABRICATION OF 2x2 NON AC STARLINE PASSENGER BUS BODIES

#### FOR THE YEAR 2022-23

#### 4. GENERAL DESIGN

Stream-lined and balanced bus body with single entrance cum – exit door in Front over hang of the chassis with facing forward in 2X2 seating layout as per latest applicable bus body code.

#### 4. REGULATION:

The structure of the bus body, general appearance and seat layout etc. shall be as per latest bus body code AIS052 or latest.

#### 5. CHASSIS SELECTION:

Bus body shall be fabricated on 2X2 NON AC STAR LINE (Wheel Base 5600mm to 6000 mm) PASSENGER BUSES.

4. **BROAD SPECIFICATIONS** FOR FABRICATION OF 2X2 Non AC STAR LINE WITH SEATS

RECLINING/PUSH BACK PASSANGER BUS

(ALL DIMENSIONS IN MM)

	Parameters	Dime	nsions
1.	Design of the 2x2 Non AC Starline	As per bus body code AIS 052 .	
2.	Type of chassis on which bus to be fabricated .	Chassis of wheel b	ase 5600-6000mm
۷.			
3.	Height window rail to cant rail (Window frame)	1100	
4.	Pillar bay size	1500	
5.	Clear width of driver door & Emergency door in structure	740	
6.	clear width of saloon door in structure	840	
7.	Gallery / gangway height	150	
8.	Width, length & height of bus	Conforming to As	per Bus body Code
		AIS 052 or latest	
		Over all width	2580 mm+/-
			05mm
		Over all length	10800-12000mm
			+/-25mm
		Saloon height	2000 mm

		(From Cross	Minimum
		bearer to roof	
		sticks)	
9.	Type of structure	cant rail and wi support of wind 3. Cross bearer he Minimum 200 r	oular pipe of thickness orming to the bus body code. of size 60x40x2 ovided between ndow rail for dow section.
10.	Dickey/Luggage Boxes	Side dickeys and R provided having ac per bus body code Rear dickey / side cover, gas spring /sand lights for illum	dequate space as . dickeys with flap shockers , locks

		All sides of luggage booth /dickey shall be sealed for ingress of water and dust.
11.	Type of front wind glasses screen (laminated )	Front wind screen glasses should be in one piece laminated of approx size (1350x2440), Thickness of the glass should be as per firm's own design preferably minimum 8.76 mm thick. The glass should be fixed with EPDM rubber glazing preferably
12.	Rear wind screen glasses	Rear glass in one piece toughened of approx size 1690x1860x660 mm of 5.5mm thickness clear transparent fitted with EPDM rubber.
13.	Window glasses	The window glasses should be of toughened & clear transparent.  Approx Size of glasses should be 550 H x750 W x4.8 mm thickness (Mazda

		bend).
		Slider window bay width- centre to
		centre 1500 mm
		Top fixed glass height – 460 mm.
		Separate window frame for upper
		fixed glass and lower sittings shall be
		provided.
14.	Interior decoration	Interior roof top, parcel rack, driver cabin/compartment shall be of composite penals ABS/ACP having Minimum 3mm thickness in grey colour or finalized in prototype with proper beading at joints.
15.	Passenger/ Saloon door	Manually operated swivel type door matching with the body design . Location of door to be at ahead of front axle at Left side. The opening system should be of heavy duty type for smooth , gap and rattle free operation of passenger gate .  The width of the gate shall be minimum 840 mm clear span in

		structure , as per bus body code
16.	Emergency door	To be provided as per bus body code
		in the rear right side of the bus.
<mark>17.</mark>	Provision of coach fans	Heavy duty fans of 8 " size without
		carbon brushes / maintenance free
		to be provided on both side at each
		piller in passenger saloon and 1 No.
		in driver cabin .
18.	Driver cabin partition	Full partition with provision of gate
		to be provided between driver &
		passenger cabin with door closure.
19	PASSENGER SEATS : As per AIS 023, to make standardization of seats in the	
	same category of buses in the Fleet of RSRTC, these should be sam existing buses (Same category) in RSRTC fleet.	
i.	Type of seats	High back reclining readymade
		passenger bus seats imported GAS
		Spring , Twin seater , ERW frame
		having solo bottom cushion and back
		rest for individual passengers with

		arm rest, suitable for fixing in 2x2 layout.
ii.	No. of seats	Minimum 41 (20 Nos 2 seater + 1 solo) + D
iii.	Size of Seats	Over all width for twin seat 1025mm +/- 25mm  Overall height of seat 1100mm +/- 10 mm  Inclination of seat back rest 200-250mm
iv.	Standard accessories be provided with each seat.	ix. Grab handle at back rest x. Coat hanger xi. Knitted magazine pouch xii. Bottle holder xiii. Foot rest. xiv. Plastic side covers xv.reclining knob xvi. Head rest flap
20.	Miscellaneous to fittings provided	(a)Conductor seat folding type and adjustable (b) First aid box (c)

	Su	uggestions box ( d)FR grade
	C	urtains shall be provided & colour
	aı	oproved by RSRTC (e) Fire
	ex	xtinguisher – as per CMVR (f) Fog
	la	mps - 2 Nos . (g) Half seat covers
21.	Safety Norms A	s per bus body code AIS 052 or
	pı	revailing.
22.	During fabrication work , followings are taken care of	
	Mobile charger facility shall be provided in each row at both sides with inverter, if required.	
	<ul> <li>LED Destination board of OEM Make shall be provided at front and rear side of size Minimum 900x200 mm shall be provided.</li> <li>Passenger seat of reclining /push back type of M/S Uno Minda Harit make for 2x2 Non AC Star line buses shall be provided as per AIS 023.</li> <li>PU paint of OEM Make shall be used for colour . colour scheme sha be same as existing RSRTC buses and finalized at the time of prototype .</li> <li>Original Equipment Manufacturer (OEM) means which is supplier parts / product to chassis manufacturer i.e. M/s Tata Motors Ltd., M/s Ashok Leyland, M/s VECV etc.</li> </ul>	

- ➤ All Logos /Slogans/ Seat No. shall be written as directed by RSRTC.
- Curtains fitting brackets should be of heavy duty good quality.
- ➤ All door/ flaps locks shall be provided. Curtain pipes and brackets should be of heavy duty good quality.
- > FR grade Carpet shall be fitted properly in rear/ side dickeys and parcel racks.
- Fire extinguishers shall be provided as per bus body code and latest CMVR.
- ➤ Roof ventilations/ Escape hatches shall be provided as per bus body code.
- > Provisions as per AIS 140 shall be provided.
- ➤ Reading lamps with switches for each seat shall be provided.
- ➤ ETIM charging power socket shall be provided in driver cabin at suitable place.
- ➤ Materials used in fabrication of bus body shall be fire retardant (FR) grade as per prevailing bus body code.
- > Shower test shall be carried out after completion of bus body.
- ➤ Provisions for differently abled / persons with disabilities (PWD) passengers shall be made as per bus body code.
- > Urea / Adblue tank flap opening provision shall be as suitable.
- > 2 reflectors to be fitted on the rear end.

	➤ Top & side markers, indicators shall be as per AIS 052.		
	<ul> <li>Railway type locks shall be provided in all doors ,luggage box and battery box.</li> <li>Any changes / provisions may be made in bus body at any stage as per requirement of RSRTC.</li> </ul>		
23	LETTER WRITING AND LOGO & STICKERS		
I	**राजस्थान परिवहन निगम** has to be	Tata Blue Fluorescent stickers	
	written in HINDI on both side stretch		
	panels :-		
	iii. On conductor side, ahead of passenger door below the 2 main windows,		
	iv. On driver side, 50mm before driver door below the 2 main windows.		
	iii. Size of the letters shall be		
	150 mm height x 1620		
	mm span.		

li	"RSRTC" logo on both side panels, FES	Tata Blue Fluorescent stickers
	& RES has to be provided as per	
	drawings & specifications.	
lii	BS VI in 8" dia circle has to be written, as case may be, on FES LH side	
Iv	Name of the depot to be written on:  On top of front wind screen  On outer top rear dome of letter size 125 mm height.	<ul> <li>Red Fluorescent sticker with yellow back ground putta 250 mm width.</li> <li>Tata Blue Fluorescent stickers instead of Violet purple stickers.</li> </ul>
V	"RSRTC" to be written on FES just below joint of front wind screen glasses of letter size 75 mm height	
Vi	"RSRTC" logo on both side panels, FES & RES has to be provided as per drawings & specifications.	
vii	Slogans 12.फर्स्ट एड बॉक्स, सुझाव पुस्तिका चालक केबिन में उपलब्ध है।	11. टॉप RH साइड <b>पार्टीशन</b> पर (लाल रंग में 40एमएम साईज)

—शिकायत एवं सुझाव के लिये टॉल फी न. 18002000103

- दूरभाष नियन्त्रण कक्ष मुख्यालय, जयपुर . फोन. 9549456745
- मुख्य प्रबन्धक न. .....
- प्रबन्धक(संचालन) न.....
- प्रबन्धक(यातायात) न.....
- 13.ध्रम्रपान वर्जित है।(स्टीकर लाल रंग में)
- 14. संकट द्वार (लाल रंग में 40एमएम साईज)
- 15.''यात्री किसी अनजान व्यक्ति से कोई वस्तु न लें''
- 16."यात्री कोई संदिग्ध /लावारिस वस्तु को न छुये व उसकी सूचना तुरन्त चालक अथवा परिचालक को दें"
- 17.ई-टिकटिंग के माध्यम से टिकट प्राप्त करने हेत् निगम की website:
- 18.www.rsrtconline.rajasthan.gov.in पर लोग ऑन करें।
- 19.यात्री यात्रा करने से पूर्व बुकिंग या परिचालक से उपयुक्त टिकट प्राप्त कर यात्रा करें। बिना टिकट यात्रा करने

टॉप RH साइड पार्टीशन पर स्लोगन न.1
 के नीचे (काले रंग में 40एमएम साईज)

- 12. चालक पार्टीशन पर ऊपर की तरफ मध्य में व ठीक इसके सामने पीछे डोम के मध्य में
- 13. संकट द्वार के गार्निश रेल के मध्य में
- 14. टॉप LH साइड पार्टीशन पर सैलून में (लाल रंग में 40एमएम साईज)
- 15. टॉप LH साइड पार्टीशन पर सैलून में (लाल रंग में 40एमएम साईज)
- 16. पार्टीशन पर सैलून में (लाल रंग में 40एमएम साईज)
- 17. टॉप LH साइड पार्टीशन पर काले रंग में 40 एमएम साईज ।
- 18. अन्दर यात्री फाटक के ऊपर लिखें (काले रंग में 40 एमएम साईज )

### पर.....

- 20.निगम की बसें राप्ट्रीय धरोहर हैं। इनकी सुरक्षा करना हमारा कर्तव्य है।
- 21.''बस रूकने पर सावधानी से, आगे मुँह करके उतरें''।
- 22. **ध्यान दें:** दुर्घटना रहित बस संचालन एवं डीजल बचत पर
- Name of the depot to be written on  $\cdot$ 
  - On top of front wind screen both the glasses of letter size 140 mm height
  - On outer top rear dome of letter size 125 mm height.

डिपो का नाम (उदाहरण के लिये – ''जयपुर डिपो''

- 13. ''आपकी यात्रा मंगलमय हो''
- 14. विधायक सीट

- 19. अन्दर यात्री फाटक के ऊपर स्लोगन न.7 के नीचे लाल रंग में 40एमएम साईज में लिखें।
- 20. ड्राइवर सीट के सामने टॉप डोम मध्य में अंकित करें। (लाल रंग में ४०एमएम साईज)
- 11. In front of driver seat at front dome

12-

- Red Fluorescent sticker with yellow back ground putta 250 mm width.
- -Tata Blue Fluorescent stickers
- 13. बाहर यात्री फाटक के ऊपर बोर्ड पर लाल रंग में 75एमएम साईज में लिखें।

15.	महिला सीट	<b>→</b>	
16.	दिव्यांग सीट	_	14,15 व 16 यथा स्थान पर लाल रंग में लिखें।

Note 1:- RSRTC has given bus body Specifications / drawing along with this document only for references however the Bus body fabrication must be as per latest / prevailing bus body code and CMVR. If there is any discrepancy between the specifications given and bus body code, the bus body code shall prevail.

#### Note 2-

- 1. Regarding VTS & Panic button, cameras etc as per AIS 140, specification and comment would be appropriate to be taken from the IT section of RSRTC.
- 2. Buses with LED destination board or without LED Destination board decision may be taken at the level of traffic department
- 3. For the slogan to be written inside the buses, it would be appropriate to include the points mentioned in this Documents after checking and approval from the Traffic Section of RSRTC.
- 4. If fans required in passenger saloon, then decision may be taken.
- 5. Seat Nos for persons with disabilities (PWD) , Ladies seat with pink colour, MP/MLA , senior citizens etc shall be confirmed by traffic section of RSRTC.

**General Manager (B/B)** 

#### **BROAD SPECIFICATIONS**

OF

# FABRICATION OF SUPER EXPRESS 3x2 BLUELINE PASSENGER BUS BODIES

**FOR THE YEAR** 

2022-23

#### 4. GENERAL DESIGN

Stream-lined and balanced bus body with single entrance cum – exit door within the wheel base of the chassis with facing forward in 3x2 seating layout as per latest applicable bus body code AIS 052 & Latest CMVR.

#### 6. REGULATION:

The structure of the bus body, general appearance and seat layout etc. shall be as per latest bus body code AIS052 & latest CMVR .

#### 7. CHASSIS SELECTION:

Bus body shall be fabricated on 3X2 BLUE LINE (Wheel Base 5100 mm to 5500 mm) PASSENGER BUSES.

4. BROAD SPECIFICATIONS FOR FABRICATION OF 3X2 LAYOUT BLUE LINE BUSES WITH PASSANGER BUS SEATS (ALL DIMENSIONS IN MM)

Parameters	Dimensions

1.	Design of the 3X2 BLUE LINE	As per bus body code AIS 052& latest CMVR latest amendments.		
2.	Type of chassis on which bus to be fabricated .	Chassis of wheel base 5100-5500		
3	Height from window rail to cant rail (Window section center to center)	965		
4	Pillar bay size 1100			
5	Clear width of driver door & Emergency door in Structure	740		
6	clear width of passenger /saloon door in structure	740		
7	Over all height ,width & length of bus	Conforming to As per Bus body Code AIS 052 or latest		
		Over all width	2560 mm+/-05mm	
		Over all length	9500-10800 mm +/-25mm	

		Saloon height (Cross bearer to roof stick)	1930 mm Minimum +/-05mm
8.	Type of structure	GI Tubular pipe thickness confor	oe duly MIG welded , of minimum 2mm rming to the revailing bus body
9	Emergency door	To be provided in the rear right	as per bus body code side of the bus.

10	GLASS	
	i.	i.
	> Front	"AA" laminated curved glass having thickness 6.3 +/- 0.4 mm
		(48X48) Two piece
		AS:296:69:July,05 and IS:2835:1987 & IS:2553:1992 or latest
	ii.	ii. "A" toughened 4.8 mm thick flat
	<ul> <li>Top fixed strip for main window</li> <li>Top fixed strip for door window</li> </ul>	glasses. Window and partition glasses shall be clear transparent
	and main door bay window  ➤ Shutter glass for main window	
	> Shutter glasses for main door bay window	
11	> Quarter window	Door wind careen glasses in one piece
	Rear wind screen glasses	Rear wind screen glasses in one piece toughened of approx size
		2190x2130x610 of 5.5 mm thickness
		clear transparent fitted with EPDM
		Rubber

12	Main window	Al. section BW 3653 HINDALCO	
		Tie bar section SP.4257	
		Joint Plate-Al.	
		Al.415 section (F-section)	
		Al. angle	
		Al. section 1752 INDAL	
		Shutter catchers (press metal)	
		Terrene felt	
		EPDM Sweep rubber 40mm	
	Window section shall be in <b>F &amp; H section</b> as above mention or equivalent as per AIS 068		
13	During fabrication work, followings are taken care of		
	➤ Parcel rack of ERW pipes shall be provided as per bus body code.  The complete parcel rack should be epoxy zinc phosphate coating and black painted. Minimum 9" clear gap should be maintained		

between the roof and parcel rack.

- > Passenger door shall be J&K type door.
- ➤ Mobile charger facility shall be provided in each row at both sides with inverter, if required.
- > Protection cum grab pipe, Horizontal grab pipe shall be provided.
- > Tool box with frame support and rexine shall be provided in driver cabin.
- ➤ Side dickey / luggage box shall be provided as finalized at the time of proto type .
- ➤ LED Destination board of OEM Make shall be provided at front and rear side of size Minimum 900x200 mm shall be provided.
- ➤ Passenger seats of OEM Make for 3x2 super express blue line buses shall be provided as per AIS 023.
- ➤ PU paint of OEM Make shall be used for colour . colour scheme shall be same as existing RSRTC buses of Model 2020 and finalized at the time of proto type .
- ➤ Original Equipment Manufacturer (OEM) means which is supplier parts / product to chassis manufacturer i.e. M/s Tata Motors Ltd., M/s Ashok Leyland, M/s VECV etc.
- ➤ Rub rail shall be fitted both sides of bus for standardization as old fleet of RSRTC.
- ➤ All Logos /Slogans/ Seat No. shall be written as directed by RSRTC.

- Fire extinguisher as per CMVR.
- > Provisions as per AIS 140 shall be provided.
- ➤ ETIM charging power socket shall be provided in driver cabin at suitable place.
- ➤ Shower test shall be carried out after completion of bus body.
- ➤ Materials used in fabrication of bus body shall be fire retardant grade as per prevailing bus body code.
- ➤ All fittings and provisions shall be made as per bus body code and CMVR latest amendments.
- > Provisions for differently abled / persons with disabilities (PWD) passengers shall be made as per bus body code.
- > Urea / Adblue tank flap opening provision shall be as suitable.
- ➤ Top & side markers, indicators shall be as per AIS 052.
- ➤ Railway type locks shall be provided in all doors ,luggage and battery box.
- > Drop forged toe hook shall be provided at rear end.
- ➤ Any changes / provisions may be made in bus body at any stage as per requirement of RSRTC.

## LETTER WRITING AND LOGO & STICKERS

14

i.	**राजस्थान परिवहन निगम	** has to be	Tata Blue Fluorescent stickers
	written in HINDI on bo	oth side stretch	
	panels :-		
	main window vi. On driver before driv the 2 main w	oor below the 2 ws, side, 50mm er door below vindows. tters shall be	
li	"RSRTC" logo on both	side panels,	Tata Blue Fluorescent stickers
	FES & RES has to be p	•	
	drawings & specifications.		
lii	BS VI	BS VI in 8" dia circle has to be written, as case may be, on FES LH side	Dark Green Fluorescent sticker

lv	Name of the depot to be written on:  On top of front wind screen  On outer top rear dome of letter size 125 mm height.	<ul> <li>Red Fluorescent sticker with yellow back ground putta 250 mm width.</li> <li>Tata Blue Fluorescent stickers instead</li> </ul>
	ietter size 125 mm neight.	of Violet purple stickers.
V	"RSRTC" to be written on FES just below joint of front wind screen glasses of letter size 75 mm height	Red Fluorescent stickers
Vi	"RSRTC" logo on both side panels, FES & RES has to be provided as per drawings & specifications.	Tata Blue Fluorescent stickers
vii	Slogans         23.फर्स्ट एड बॉक्स, सुझाव पुस्तिका चालक केबिन में उपलब्ध है।         —शिकायत एवं सुझाव के लिये टॉल फी न.         18002000103         — दूरभाष नियन्त्रण कक्ष मुख्यालय,         जयपुर . फोन. 9549456745         — मुख्य प्रबन्धक न	<ul> <li>21. टॉप RH साइड पार्टीशन पर (लाल रंग में 40एमएम साईज)</li> <li>— टॉप RH साइड पार्टीशन पर स्लोगन न.1 के नीचे (काले रंग में 40एमएम साईज)</li> <li>22. चालक पार्टीशन पर ऊपर की तरफ मध्य में व</li> </ul>

24.ध्रुम्रपान	वर्जित	है	।(स्टीकर	लाल	रंग	में)
3/	11 -1 41	_	1(		٠.	٠,

- 25. संकट द्वार (लाल रंग में 40एमएम साईज)
- 26."यात्री किसी अनजान व्यक्ति से कोई वस्तु न लें"
- 27."यात्री कोई संदिग्ध / लावारिस वस्तु को न छुये व उसकी सूचना तुरन्त चालक अथवा परिचालक को दें"
- 28.ई-टिकटिंग के माध्यम से टिकट प्राप्त करने हेतु निगम की website:

www.rsrtconline.rajasthan.gov.in पर लोग ऑन करें।

- 29.यात्री यात्रा करने से पूर्व बुकिंग या परिचालक से उपयुक्त टिकट प्राप्त कर यात्रा करें। बिना टिकट यात्रा करने पर
- 30.निगम की बसें राप्टीय धरोहर हैं। इनकी सुरक्षा करना हमारा कर्तव्य है।

ठीक इसके सामने पीछे डोम के मध्य में 23. संकट द्वार के गार्निश रेल के मध्य में

24. टॉप LH साइड पार्टीशन पर सैलून में (लाल रंग में 40एमएम साईज)

- 25. टॉप LH साइड पार्टीशन पर सैलून में (लाल रंग में 40एमएम साईज)
- 26. टॉप LH साइड पार्टीशन पर सैलून में (लाल रंग में 40एमएम साईज)

27. टॉप LH साइड पार्टीशन पर काले रंग में 40 एमएम साईज ।

- 28. अन्दर यात्री फाटक के ऊपर लिखें (काले रंग में 40 एमएम साईज )
- 29. अन्दर यात्री फाटक के ऊपर के नीचे लाल रंग

31.''बस रूकने पर सावधानी से, आगे मुॅह करके उतरें''।	में 40एमएम साईज में लिखें। 30. ड्राइवर सीट के सामने टॉप डोम मध्य में अंकित
32. <b>ध्यान दें:</b> —	करें। (लाल रंग में 40एमएम साईज)
दुर्घटना रहित बस संचालन एवं	
डीजल बचत पर	11.
11. Name of the depot to be written	
on:-  On top of front wind screen both the glasses of letter	Red Fluorescent sticker with yellow back ground putta 250 mm width.
size 140 mm height  The original of the size 125 mm height.  अपने का नाम (उदाहरण के लिये –	-Tata Blue Fluorescent stickers
′′जयपुर डिपो′′	12. बाहर यात्री फाटक के ऊपर बोर्ड पर लाल
12. ''आपकी यात्रा मंगलमय हो''	रंग में 75एमएम साईज में लिखें।
13. विधायक सीट 14. महिला सीट	13,14 व 15 यथा स्थान पर लाल रंग में लिखें।
15. दिव्यांग सीट —	

Note:-RSRTC has given bus body Specifications / drawing along with this document only for references however the Bus body fabrication must be as per latest / prevailing bus body code and CMVR. If there is any discrepancy between the specifications given and bus body code, the bus body code shall prevail.

#### Note 2-

- 1. Regarding VTS & Panic button, cameras etc as per AIS 140, specification and comment would be appropriate to be taken from the IT section of RSRTC.
- 2. Buses with LED destination board or without LED Destination board decision may be taken at the level of traffic department
- 3. For the slogan to be written inside the buses, it would be appropriate to include the points mentioned in this Documents after checking and approval from the Traffic Section of RSRTC.
- 4. Seat Nos for persons with disabilities (PWD) , Ladies seat with pink colour, MP/MLA , senior citizens etc shall be confirmed by traffic section of RSRTC.

General Manager (B/B)