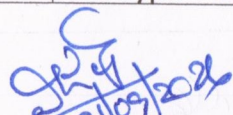
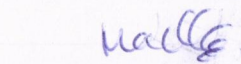
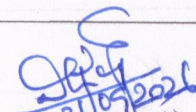


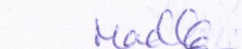
Fully built bus (AC CNG) Type-I, II & III Specifications		
Sr. No.	Parameters	APSRTC
	Bus Products Type	Type -I - AC City Buses – 145, Type – II – AC Express – 50 & AC Ultra Pallevelugu – 265, Type – III – AC Ultra Deluxe - 40
1	Overall Dimensions	
I	Length	As per OEMs ladder frame, minimum 11 Meters chassis
II	a. Height	As per Bus Body Code/CMVR
	b. Height of the chassis	Should be 900-1100 +/- 50 mm in unladen condition
III	Width	2600 mm
IV	Wheel base	5639 mm (222") WB to 5845 mm (230") WB
V	Front Over Hang	<= 43 % of WB
VI	Rear Over Hang	< = 60% of WB
VII	Internal Height	Min 1900 mm
2	Bus Body Structure Homologated Design as per AIS 052 & AIS 153	GI tubes shall be minimum YST 310 and above grade for structural members like pillars, intermediate rails, cant rail, waist rail, crib rail, skirt rail & roof sticks. Base tubes like Main pillars, Cant rails & Crib Rails shall be of minimum 3mm thickness. Other support members like diagonals, side support structure can be as per OEMs homologation certificate. Cross bearers can be of ISMC 100 (100x50x6) or GI Tubes/GI Formed section (Box type) or as per OEMs homologation certificate.
3	Exterior Panelling	
I	Front	For Type I & II - GI/AL sheet of 1.2mm is preferred. However, if homologation is with FRP, the same is allowed as per Homologation in min. 3mm with proper strength. For Type – III - FRP with 4 mm thickness. OEMs are requested to supply moulds of various FRPs being used for future use in case of damages/accidents.
II	Rear	For Type I & II - GI/AL sheet of 1.2mm is preferred. However, if homologation is with FRP, the same is allowed as per Homologation in min. 3mm with proper strength. For Type – III - FRP with 4 mm thickness.


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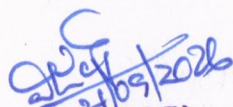

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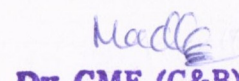
		OEMs are requested to supply moulds of various FRPs being used for future use in case of damages/accidents.
III	Roof	Min.0.91 mm GPSP/18 Gauge Aluminium or as approved by APSRTC
IV	Flap Doors /Modular Panels	Modular Panels:1.22 mm, All Flap doors :2.00 mm Aluminium sheets with Air vent lovers. Air vents at suitable location based on cylinders location shall be provided.
V	Stretch Panel	0.91 mm GPSP
4	Interior Panelling	
I	Roof	ACP sheet of 3mm thickness with FR grade. APSRTC will decide colour of ACP.
II	Side	ACP sheet of 3mm thickness with FR grade; Pillar trim - PVC coated 0.8mm thick GI sheet (0.6mm GI + 0.2mm PVC Coated sheet). APSRTC will decide colour of ACP and PVC Coated GI panels.
III	All Interior Finishers	0.8mm PVC sheet (0.6mm GI + 0.2mm PVC Coated sheet) can be provided. Colour is APSRTC's choice.
5	Flooring (Plywood & Vinyl type / Shade /Code)	Type-III - Chequered Plywood of 12mm thickness with 2 mm Vinyl mat (BWR, FR grade). Type-I & II - Densified Plywood 12mm thickness clad with 2 mm Aluminium chequered sheet.
6	Body Insulation	
I	Roof	PU Foam to be filled between the panels.
II	Side	PU Foam to be filled between the panels.
7	Dashboard	Single Piece FRP or as per OE design. Minimum 3 mm thickness and the Colour is APSRTC's choice.
8	Engine Hood	Engine Bonnet of preferably min 3mm thick in FRP and it should be hinge type with lifting provision towards dash board with proper heat shield like FR Grade glass wool/Nitrile rubber or as per OEM Design
9	Passenger door	
I	Number of Doors	Type III- Ultra Deluxe & Type-II-Express bus with Front entrance door with clear aperture of 780 mm as per AIS:052. Type-II- Ultra Pallevelugu bus with wider middle door within wheel base with minimum clear aperture 1300 mm as per AIS:052. Type-I City - Shall have entrances at front of Front axle & Rear of Rear axle; clear aperture as per AIS:052.
II	Type of door	JK door
III	Passenger door glass tint	Clear glass or as per AIS:052
IV	Door operation type	Pneumatically operated
10	Driver door	Hinged type half-length door
I	Driver door window	Sliding window with clear glass or as per AIS:052.
11	Passenger seats & Luggage Boot Space	


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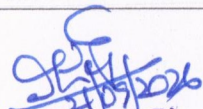

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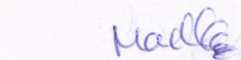
		Sno	Product Type	Seating Pattern	Seating Capacity	Luggage Boot space in Cu.M
I	Number of seats	1	Type I – City AC	2x2	45	--
		2	Type II - Ultra Pallevelugu AC	2x3	55	2.84
		3	Type II – Express AC	2x3	50	3.59
		4	Type III - Ultra Deluxe AC	2x2	40	3.70
II	Type of seats (High back seats, Reclining luxury, Fixed Seats)	Ultra Deluxe (Type III) - DLX passenger seats with 125 mm reclining mechanism & USB wiring harness for charging of mobile phones to be provided in between the seats with suitable connectors or on the side wall, fasteners shall be M 10 X 1.0 H.T. Approved makes are Crystal model seats of M/s UNO Minda Ltd and similar seats of Kaizen or any other approved by APSRTC; Seats dimensions shall be as per AIS:052.				
		Express (Type II) - High back seats with individual bottom & backrest with powder coated seat frames and Seats shall be of Uno Minda or Kaizen or any other make approved by APSRTC. Type of seats shall be as approved by APSRTC. Seat dimensions as per AIS:052.				
		Ultra Pallevelugu (Type II) – High back seats with Continuous bottom & individual back rest with powder coated seat frames; shall be of UNO Minda or Kaizen or any other make and type of seats approved by APSRTC. Seat dimensions as per AIS:052.				
		City (Type I) – Seats with Continuous bottom and continuous back rest with powder coated seat frames; however seats of Uno Minda or Kaizen or any other make approved by APSRTC. Type of seats shall be as approved by APSRTC. Seat dimensions as per AIS:052.				
IV	Width of seats	Prior approval of APSRTC is required for all types of seats.				
		Ultra Deluxe – Two seater width: 1020 mm. Last row with five seats.				
		Express - Conductor / Single Seat width: 500 mm, Two seater width: 840 mm, Three seater width :1240 mm. Last row continuous six seats.				
		Ultra Pallevelugu – Single seater width: 406 mm. Conductor / Single Seat width: 500 mm. Two seater width: 813 mm. Three seater width:1200 mm. Last row continuous six seats.				
		City - Single seat width: 420 mm, Conductor single seat width: 500 mm, Two seater width: 813 mm, Five Seater width : 1990 mm, Six Seater width : 2440 mm. Last row continuous six seats.				


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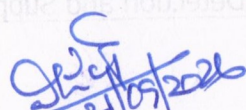

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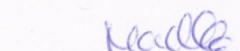
V	Seat Pitch/span	As per AIS:052.
VI	Seat leg space	Min 280 mm.
VII	Gangway (Excluding Arm rest)	Min 350 mm.
VIII	Seat Upholstery - (Fire retardant), Colour, shade, code no. if any	Ultra Deluxe – Jacquard. Prior approval of fabric sample to be obtained from APSRTC. For other products - Seat Rexine shall be as per RDSO specifications. Rexine colour will be approved by APSRTC. Seat assembly sample to be submitted to APSRTC for approval before fabrication.
IX	Arm Rests	Wherever required as per seat layout
X	Seat Belts (Type of belt)	As per CMVR
XI	Any other specific requirements of Seats	As per CMVR
12	Emergency Exits	One Emergency door to be provided on RH side rear of rear wheel as per Bus body code AIS:153.
13	Roof Hatch Passenger saloon qty. and type	2 roof hatches as per AIS:153.
14	Front Windshield	Single wind shield laminated glass of OEM sizes. As front wind screen glass requirement is more, OEMs have to furnish the sources of supply.
15	Rear Windshield	Rear wind screen glass shall be toughened glass. Size agreed as per OEM design. OEM have to furnish the sources of supply.
16	Side Window Glasses	
I	Type	Horizontal fixed window glasses and sizes as per OEMs Homologation Certificate.
II	Glass tint	5.0 mm thick toughened float quality, safety bronze tinted glasses as per IS: 2553 - 1990 & IS: 2835 - 1987. % of tint as per CMVR ; OEMs shall furnish sizes of fixed glasses & other glasses and their sources. Curtains with curtain pipes & brackets shall be provided. Two sets of curtains (Colour as approved by APSRTC) (fire retardant) shall be supplied along with each bus.
III	Any other specific requirements of window	As per CMVR/ Bus body code.
17	Sun visor	Roller type to be provided.
18	Rear view Mirrors	Bigger Rear-View Mirror to be provided as per CMVR and sample shall be approved by APSRTC.
19	Passenger Saloon area mirror	To be provided.
20	Wipers	One electrical radial type wiper machine of 120W capacity with twin blades of 815mm length, of approved make shall be provided for front windshield glass below the front


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		waist rail on left side.
21	Driver's partition & Guard rail	Half partition to be provided in SS sq. tubes. Engine guard rail to be provided at bonnet area 25 mm diaX1.6 mm of SS pipes with grade of 304.
22	Step partition	SS pipe 25 mm dia X 1.6 mm thick with grade of 304.
23	Steps	As per AIS: 052 specifications.
24	Front bumper	Ultra Deluxe - FRP with minimum 3.0 mm thickness or GI 2.0 mm thickness. Other Products - MS formed readymade / FRP. The bumper shall be fabricated in GI sheet 2 mm thick of size 40x300x40 mm to suite the body width. In case of FRP, the same is allowed as per Homologation of min. 3mm with proper strength.
25	Rear bumper	Ultra Deluxe - FRP with minimum 3.0 mm thickness or GI 2.0 mm thick Other Products - GI formed section with 2.00 mm thickness. The rear bumper shall be in GI sheet of 2.0 mm thick-formed channel section of size 50x175x50 mm in single piece with brackets in MSL40x40x6mm and to be fitted to the chassis long members or FRP, the same is allowed as per Homologation of min. 3mm with proper strength.
26	Towing hook	As per homologation.
27	Battery box	Sliding type battery case with proper locking shall be provided on LH side for ease of maintenance. Fixed type battery case is also permitted, subject to providing sufficient space for maintenance and change of batteries.
28	Tool box	Tool Kit as per CMVR, However, the tool kit shall be useful for removal and fitment of tyres. Tommy bar shall have proper strength and it must be minimum EN19 steel.
29	First Aid box	As per CMVR Rules and as per approved by APSRTC.
30	Roof Lamps	LED lamp/tube light assemblies (size 390x130 mm) in passenger saloon & driver cabin to be provided in which 2 assemblies shall have in-built night lamps in blue colour and 01 no. LED light assembly in driver cabin. Total: 08 or as per OEM design. Separate light to be provided at conductor seat.
31	Step well lamp	To be provided with aesthetic appearance.
32	External Lamps	
I	Headlamps	Halogen in round type with suitable relay as per OEM Design and CMVR requirements.
II	Front direction Indicator	Front direction Indicators to be provided.
III	Side direction Indicator	As per OEM Design & AIS 052.
IV	Side marker lamp	As per OEM Design & AIS 052.
V	Tail Lamps	As per OEM Design & AIS 052.
VI	Height Marker lamp	As per OEM Design & AIS 052.
VII	Fog Lamp (Front and Rear)	As per OEM Design & AIS 052.


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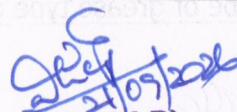

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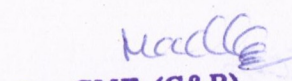
33	Fire extinguisher	E2 of totalling 10 Kgs Fire extinguishers to be provided as per AIS 052.
34	Reverse horn	To be provided reverse buzzer.
35	Hatrack & AC Duct	As per OEM/AC manufacturer design/requirement meeting the CMVR & AIS norms
I	Parcel Courier Box: One Parcel Courier box to be provided at left side of parcel rack in 2nd pillar bay with suitable locking system	Dimensions provided in the drawing.
36	Stanchions	Shall be provided for Type-I & Type-II buses. Four stainless steel tube stanchions in 304 grade of 38 mm OD x 1.6mm thickness as per IS: 6913-1992 should be provided in between the saloon continuous beam and saloon floor as per seat layout plan.
37	Roof grab rail	SS Tube of 25 dia X 1.6 mm, 304 GR in 2 rows with E 24 arm slings for Type-I City & Type-II Ultra Pallevelugu. SS Tube of 25 dia X 1.6 mm, 304 GR in single row with E 18 arm slings for Type-II Express & Type-III Ultra Deluxe.
38	Driver seat	Adjustable type HDPE Knitted Driver Seat Assembly of M/s UNO Minda or any brand as approved by APSRTC with ELR safety belt (in loose also) driver seat confirming to CMVR requirements.
39	Driver Seat Belt	
40	Driver Fan	
41	Bell switch	As per OEM Design.
42	Battery cut off switch	As per OEM Design.
43	Destination Boards/Indicators (Qty, Location, size, Make)	2 Nos LED digital Destination boards to be provided with proper rigid clamping at top and both sides to display in Telugu & English fonts in Amber colour. Size of board at front 1800x220 mm & 900x 200 mm at rear with inbuilt controller. Microcraft / Sumeet or any other source approved by APSRTC or as per OEM design but size of boards and colour of LED shall be as per APSRTC specs
44	Speakers & PA System	6 Nos Speakers to be provided. PA system & speakers shall be provided.
45	AIS -140 Compliance	As per AIS 140 compliance. VLTD Certification with activation for 2 years shall be supplied. Subsequent renewals are in the scope of APSRTC with charges payable at actuals. In case of device replacement after warranty period, it shall be in the scope of APSRTC.
46	USB Charger for driver and conductor	TIM charger & USB for cell charging to be provided at both areas.
47	Retro reflective tape	As per CMVR; Red reflective tape to be provided over the full body at rear.
48	Colour Scheme	PU paints as per APSRTC approved colour scheme.
49	AIS 0153 Features – Fire	Fire Detection Alarm system (FDAS) and Fire Detection and Suppression System (FDSS) to be provided

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	Safety	as per AIS : 135 . For Type III – FPS has to be provided.
50	Emergency Lighting system	Emergency Lighting system to be provided as per AIS: 0153.
51	Warranty	Chassis - 2 years or 3 lakh KM (whichever is later) Body - 2 years or 3 lakh KM (whichever is later)
52	Front centre outside mirror	Front bumper view mirror/proximity mirror as per CMVR to be provided
53	Chassis type approval certification issued by GoI	Required
54	Hydraulic jack/Mechanical Jack	>8 Ton Hydraulic jack with self-locking provision/ Mechanical screw jack with min. total height of 480 mm in open condition and 295 mm max. in closed condition. Minimum/Maximum height as per OEM design shall serve the purpose i.e., shall lift the vehicle for removal of tyre with any type of approved tyre sizes in open/closed condition.
55	Air intake system	Air filter shall be above the Engine level/under driver seat to intake fresh Air into the engine or OEMs shall ensure that in case vehicle is operated in water during rainy season no water shall enter the manifold.
56	Air tanks	Should be provided in between rear wheels or in such a way not to cause any obstruction for maintenance of suspension system.
57	CNG cylinders capacity	800 Ltrs to 960 Ltrs WLC for the chassis for front door. Middle door buses minimum 720 lts. Chassis shall be supplied with minimum of 50kgs of CNG.
58	Engine with suitable mountings on the chassis frame	a) The Engine shall be 6 - cylinder, vertical, in line, water-cooled with Turbo Charger and Inter Cooler confirming to BS-VI emission norms. TATA Chassis shall be with TATA/Cummins Engine. AL chassis shall be with H-Series Engine. Eicher chassis shall be with Eicher Engine. b) Engine Output: Minimum 180 HP. c).Torque: Min 700 Nm @1000-2000 rpm d) Air compressor maximum duty cycle shall be 30% or as per OE design. Shall be gear driven for all models. Air compressor minimum capacity shall be 230CC water cooled.
59	Cooling system	a) The System shall include Aluminium Radiator with transparent/Translucent De-aeration Tank, Water pump and Viscous Fan of adequate capacity with thermostat of failsafe type to control the coolant temperature in between 85°C to 95°C. The water pump supplied shall be of self-lubricating system type only. The position of the fuse box/electric panel shall not be beside the radiator cap/Coolant top up point. Viscotronic Fan is allowed as per OE design.


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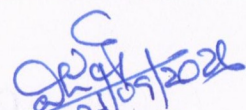

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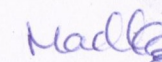
		Approved radiator makes: Halgona, TATA Toyo, Alkraft, Banco & Modine.
60	Pollution & Exhaust Gas (OBD-II NORMS)	The Engine shall meet Bharat Stage-VI OBD-II emission norms applicable at the time of delivery of chassis. The Tenderers shall give a certificate based on their Engine Dynamo Meter Test, the exhaust gas analysis of CO, HC, NOX and PM (Particulate matter) in gms/KWh. A Photo Copy of the test certificate issued under CMVR rules by the Competent Authority shall be submitted along with the tender or latest by 15.10.2026.
61	Transmission & clutch	a) Single plate dry type, Air assisted Hydraulic actuated. b) ZF WABCO make of clutch booster (With fork & pin type and push on clutch operating lever) or any other make approved by APSRTC. c) PP shaft of Spicer India / RSB makes, (only self-lubricated).
62	Gear box	Shall have synchromesh gear box with minimum 5 forward gears (over drive optional) and one reverse gear.
63	Front Axle	a) The Front Axle shall be of I-beam type made of alloy steel forging with a minimum load carrying capacity of 6,000 Kgs., with Reverse Eliot design. b) Approved makes of AAL/TVSAI/VE or OE make.
64	Rear Axle	a) Fully floating type with Hypoid Gears, with a minimum carrying capacity 9700 kgs. and the Crown Wheel Pinion ratio shall be • Maximum 5.29 :1 for the chassis with wheel base ranging from 222" to 230". b) Approved makes of AIL(Dhana)/Meritor (AAL)/OE make.
65	Tyres	a) Tyres – 6 nos + 1 Spare tyre shall be provided in a cage type carrier/OEM design carrier. b) Shall be with 295/80R 22.5 size tubeless tyres only. APSRTC approved Brands: MRF-S1F4R16TLRIB, CEAT- WINMILE-R, JK- JUM/JUM XM & Michelin- Multi Z 2. c) Tyres must be less than six months old as on the date of delivery of chassis. d) Wheel disc make - Wheels India/Kalyani make as per OE design. Tyres shall meet GSR 479(E) of MoRTH for new design tyres with Rolling resistance, wet and tyres with rolling sound. OEMs shall submit certification regarding tyres provided are meeting AIS:142 norms for rolling resistance and wet grip.
66	Steering	a) The Steering position shall be on the right-hand side of the bus. The steering system shall be power assisted gear driven pump and sufficiently rugged in design to withstand peak road shocks without risk of component failure or inadvertent alteration of steering geometry. b) Approved makes: ZF or Rane preferably in equal numbers or any other make approved by APSRTC. c) Drag link/ Tie rod (Steering ball joints) shall be of grease type only.

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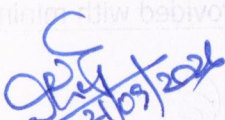
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67	Suspension	Ultra Deluxe - Double acting Telescopic Type Shock absorbers shall be provided at front & rear. Chassis shall be with Front weveller suspension & rear air suspension. Approved make of air suspension is Wheels India Ltd. Other Products - Double acting Telescopic Type Shock absorbers shall be provided at front and Rear. Chassis shall be supplied with Front & rear weveller suspension.
68	Brakes	a) Brake system either with disc brake or drum brake or combination of both will be accepted. b) Dual line Full Air Brake system shall be provided on all four wheels with Auto Slack Adjusters of approved make MEI/Haldex/WABCO/Knorr Bremse c) Air shall be drawn by compressor from after filter and before turbo charger. d) The Quick release valve/relay valve at front and relay valve at rear. e) Graduated type hand control valve shall be provided for Hand Brake system with actuators operating on rear wheels. The control valve shall be provided on the right-hand side of the driver/on the Dash Board only and must be easily accessible to the driver. f) APDI is not recommended and may provide ASP /APU as per requirement. g) Auxiliary air tank shall be provided for utilizing air for Auxiliaries. h) Polyamide brake pipes/sleeves with identification colours at ends from SP Valve shall be provided for front, rear and hand brake connections. i) Brake system must be of fully Wabco or fully Knorr Bremse, or WABCO & KB combination is accepted. j) ABS has to be provided with 4S/3M or 4S/4M configuration. k) All the Chassis shall be with Electronic Vehicle Stability Control (EVSC) except for Type-1 City buses.
69	Gradeability	16% to 27% or as per homologation.
70	Electrical System	a) The system shall be of 24 Volt DC. Battery-isolator switch (main cable cut off switch) shall be provided, besides providing the remote cut off switch on the dashboard. b) Batteries shall be of 2x12 Volts, minimum 180 AH of approved make. c) Electric wires shall be clamped in a neat form and must not be left haphazardly. The electric units and the electrical system fitted shall not be prone to short circuit problems. d) ECU should be placed in such a location easily accessible to the technicians and away from the dash board to avoid damages in case of accidents. e) Battery cable shall meet the requirement as per IS 2465. f) Approved Battery makes: Exide, Amco, Amaron. g) Batteries must be less than six months old as on the date of delivery of chassis.
71	Alternator & Self Starter	Dynamically balanced Alternator with built in regulator shall be provided with minimum of <u>75 Amps</u>

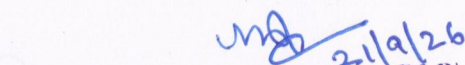

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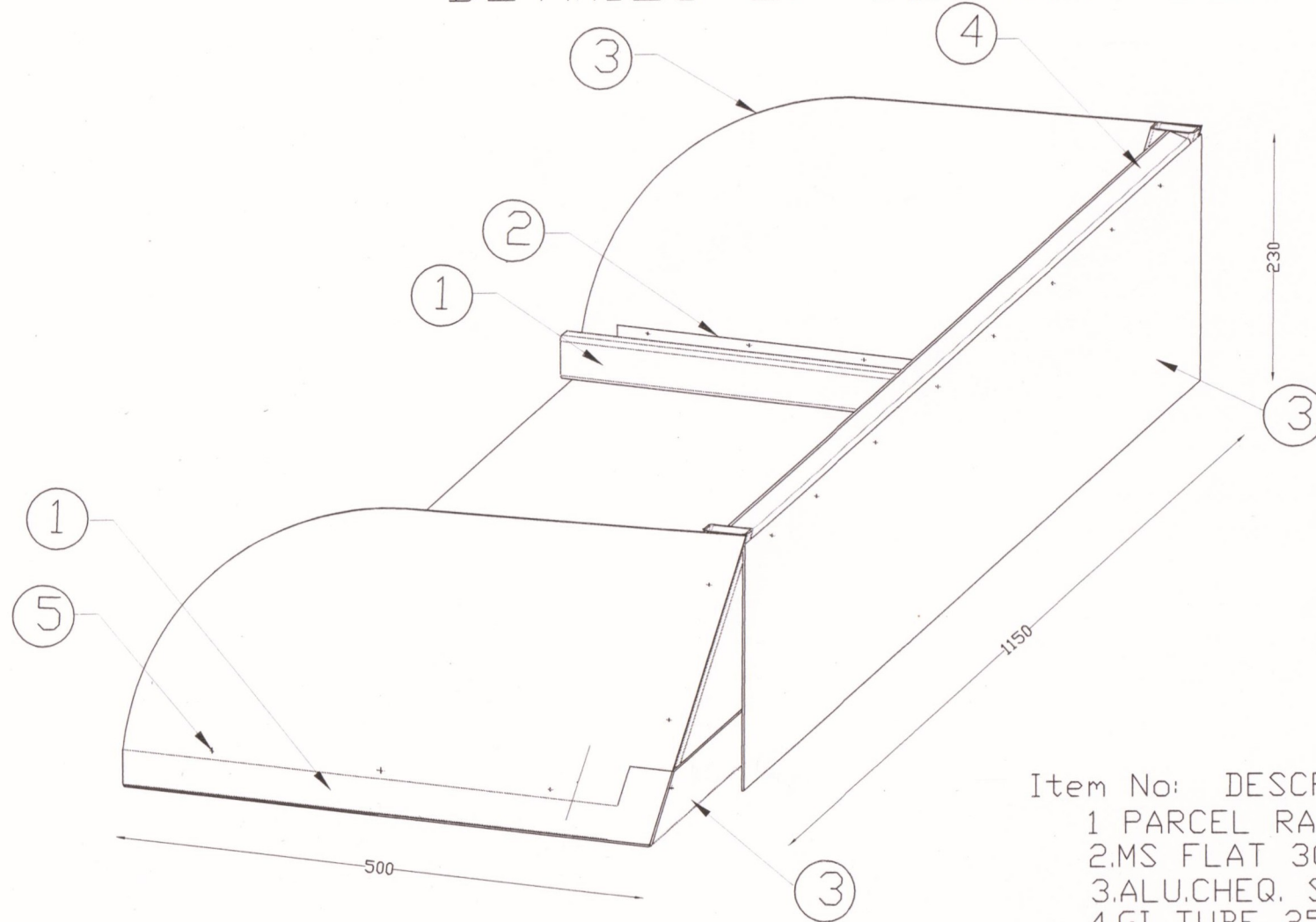
		output. AC Alternator shall be 150 Amps.
		b) The Starter Motor shall be with 4 step relay pre-engaged type, flange mounted with minimum rating of 4.0 KW.
		c) Both these units shall be so located as to prevent ingress of oil or rainwater into them.
		d) Self-Starter & alternator shall be of make Lucas-TVS, Bosch & SEG
72	Instrument panel	Aesthetically designed Instrument panel with backlit light. It should be as per OBD-II norms and all parameters like speed, air pressure, range, fuel, etc should be displayed in digital form or As per OEM Design. The instrument panel should be properly covered at bottom side to avoid ingress of dust and water.
73	Noise Level	Shall meet the MOEF notified limit of 82 db tested as per IS:3028 of 1998 for noise reduction system for the noise made by components of the chassis particularly engine, exhaust system etc.
74	Diagnostic tool	2 nos per depot or 1 no for 10 chassis whichever is higher. <u>The same shall be for life time and there shall not be any renewal fee for continuation of the software. The software update also shall be at FoC basis.</u>
75	Vinyl Stickering	Slogans inside and outside the bus to be provided in vinyl stickering as approved by APSRTC.
76	Air conditioning system	The roof mounted A/C unit shall be fitted on the vehicle as per the guide lines of AC manufacturer. The capacity of AC unit shall be 40 KW for Ultra Deluxe & Express. The capacity of AC unit for Ultra Pallevelugu & City busses shall be 45 KW with 5 condenser fans and 8 blower motors. Approved make of AC are Eberspacher, JTAC or any other brand as approved by APSRTC. The air flow rate at any vent shall not be less than 4.5 m/sec. AC Cab Command Control panel shall be located on the dash board panel as per the manufacturer's guidelines. The routing of compressor hose pipes, condensate drain pipes shall be made concealed and ensure dust/water proof. The compressor mounting area in cabin shall be provided with flap doors on sides and at top to have access to compressor and belts/pulleys. AC compressor mounting bracket shall be fitted to chassis long member as per OEM design. A.C. ducting shall be provided in 0.91 mm G.I. sheet with 6 mm Nitrile foam insulation with strip type clamps. The approximate cross-sectional area of duct shall be 100 square inches. The duct ends on both sides shall be inter-connected at rear end. Technical support of the AC manufacturer may be taken at the time of fabrication.


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 Chief Mechanical Engineer (C&B)
 A.P.S.R.T.C., RTC House
 VIJAYAWADA-520 013.

DETAILS OF COURIER BOX



Item No:	DESCRIPTION
1	PARCEL RACK BRACKET
2	MS FLAT 30X3 mm
3	ALU.CHEQ. SHEET 2 mm
4	GI TUBE 25X25X2 mm
5	M6 BOLTS

NOTE: a. TO BE PROVIDED IN LH SIDE PARCEL RACK (1st BAY)
 b. FLAP DOOR IS TO BE FITTED WITH PIANO HINGE
 AND LOCKING ARRANGEMENT

DR.NO:CB23CRB140

AME (C&B)
 VAPSRTC

Dy. Chief Mech. Engineer (C&B)
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 VIJAYAWADA-520 013.

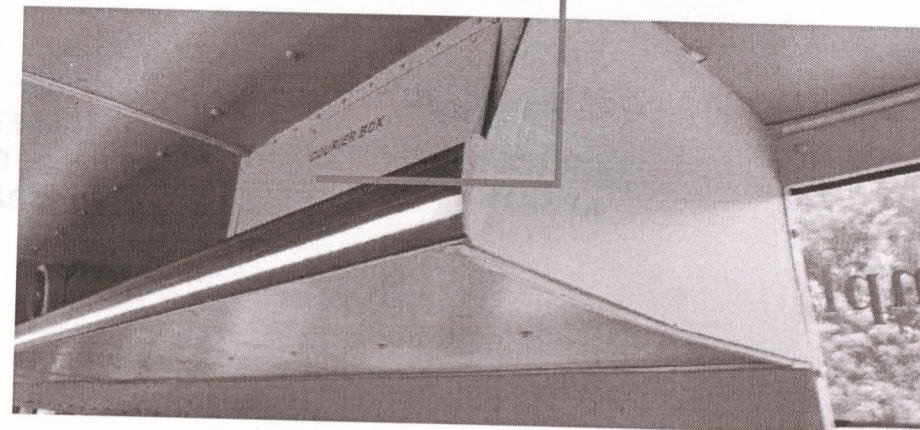
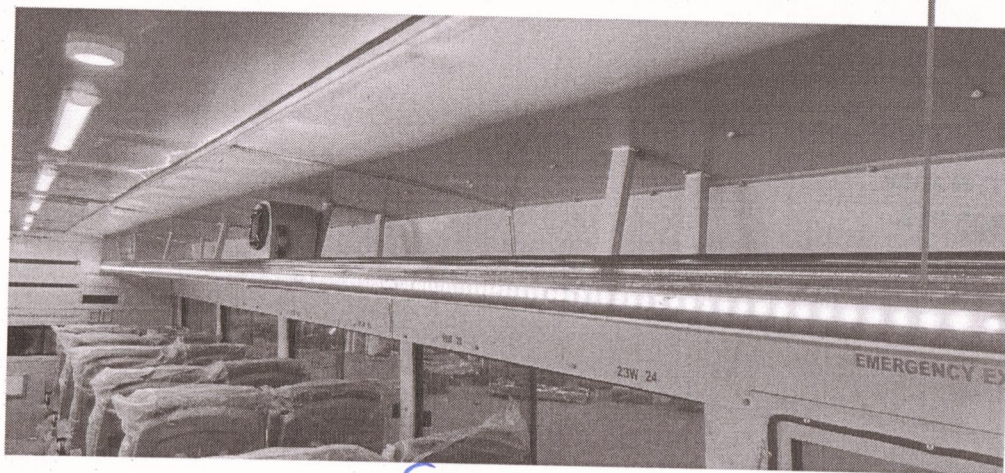


HAT
RACK



HAT RACK

COURIER BOX



21/02/2024
AME (C&B)
APSRTC

14/02/2024
Dy. Chief Mech. Engineer (C&B)
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VIJAYAWADA-520 013.

HAT RACK SPECIFICATIONS:

- The hat rack with brackets in GI rectangle tube 40x20x2 mm and GI formed 'Z' in 2 mm thick shall be provided. The interior width shall not be less than 460mm. Roof ceiling to hat rack clear opening shall be 240 mm
- The exterior of hat rack bottom shall be pasted with 0.7 mm PVC laminated GI sheet of approved shade. The interior of hat rack shall be provided with reinforcement of formed 'U' section of 1.6mm GI sheet with 20mm Thermocole insulation of FR grade and covered with 0.91 mm GI sheet and over laid by PVC coated GI sheet 0.7 mm thick.
- Hat rack edges are to be provided on both sides with Mercedes Benz type profile beading having LED strip and grab support at top area through out the length. Hat rack ends are to be closed and to be made soft duly providing with foam and fabric covering.

[Signature]
21/09/2026
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