



## ANDHRA PRADESH STATE ROAD TRANSPORT CORPORATION

No. TL10/Gen(1)/2014-MED

Office of the VC & MD  
Musheerabad, Bus Bhavan,  
Hyderabad, Dt. 12.05.2014

### **CIRCULAR No. 09/2014-MED, Dt. 12.05.2014**

Sub: EMERGENCY DOOR: Provision of emergency door on all the buses  
Operating to Karnataka state – Reg.

Ref: 1. VC&MD Lr.No. T2/480(5)/2014-OPD-T, dt. 03.05.2014 to  
Transport Commissioner of Karnataka state.

2. U.O. Note No. T2/480(5)/2014-OPD-T, dt. 06.05.2014

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The Corporation is operating about 1500 buses to the neighboring states like Karnataka, Tamilnadu, Maharashtra, Orissa etc., on mutually agreed permit basis. Hitherto all the buses are fabricated as per bus body code AIS:052 and fulfilling the Central Motor Vehicle Rules, 1989 and as amended from time to time.

The bus body code AIS:052 envisages, at least 1 emergency exit in all the buses shall be situated on the opposite side of the service door and in case of Midi and Mini buses the emergency exit shall be situated either on the opposite side of the service door or at the rear side of the vehicle with a minimum dimension of 1250 mm X 550 mm for emergency door exit or 4000 cm<sup>2</sup> for emergency window exit. Till now, the window glasses of different sizes like 1680 mm x 1000 etc., (Volvo, Indra, MB, Isuzu) were provided to operate them as emergency exit and to break open with hammer in case of emergency. E2 window glasses of 680 mm x 820 mm size are being provided in each bay of Super Luxury buses and 540 mm X 600 mm size in each bay of Deluxe, Express and Pallevelugu buses to operate them as emergency exits in case of emergency.

:: 2 ::

Now Karnataka state passed a G.O. to provide a separate emergency door in all the buses operating in Karnataka state to safeguard the passengers whenever the ghastly accidents are occurred and started enforcing the provision of emergency door in all the buses w.e.f. 01.05.2014. Accordingly while checking the vehicles by Transport Officials of Karnataka, the APSRTC buses not having Emergency Door are being challaned and in some cases seized.

On receipt of Reports from the Regional Managers on seizure of our buses operated in Karnataka, Transport Commissioner/STA/Karnataka state through the letter 1<sup>st</sup> cited was requested to provide 30 days time for APSRTC to complete the task of provision of emergency door to the buses operating towards Karnataka state.

As the safety of the passengers is our prime concern, it is decided to provide Emergency Door even for our buses. However in the 1<sup>st</sup> phase all the buses being operated to Karnataka shall be taken up on priority for providing emergency door.

In this regard, fitment of Emergency Door for one AC Garuda bus and one Super Luxury bus has been taken up at BBW/Miyapur. Demo cum hands on training was organized to all WMs and their team of coach builders on 06.05.2014 on provision of emergency door for Super Luxury bus. They have also been given necessary inputs on the adhoc requirement of material and man hours for providing emergency door.

For completing the task of provision of emergency door in all the buses touching Karnataka state within a time bound schedule i.e. by end of May, 2014, the following instructions are issued.

- As AC buses are the prime segment of APSRTC meeting the transport needs of high paying clientele, there is a need to carry out the required modifications for providing emergency door without affecting the aesthetics. Hence, all the AC buses shall be taken up under the direct supervision of C&B section for providing emergency door.

:: 3 ::

- As the repair of GI/MS bodies are being taken up extensively at Zonal Workshops in terms of Circular No. 26/2012-MED,Dt:31-12-2012, provision of emergency door shall be taken up at respective zonal workshops only as per the drawings at Annexure-A.
- Provision of emergency door for Deluxe, Express, Pallevelugu and Sapthagiri Express/Deluxe buses shall be taken up either at Zonal Workshop level or at Regional level as per the drawings enclosed at Annexure-B, C, D and E respectively.
- As this activity shall be completed within a time bound frame and the numbers of buses in this category are more, it can be taken up in the following ways.
  - a) To carry out modifications as a part of production at Zonal Workshops by allowing adhoc Man-Hours of 80 Hrs per bus. (as estimated at BBW/MYP).
  - b) To take up modifications through out-sourcing employees in the ZWS premises by supplying the required material. In this regard not exceeding Rs. 5,000/- (as estimated at BBW/MYP) can be allowed towards labour cost.
  - c) Provision of emergency door can be totally outsourced including material and labour as per the estimates enclosed along with the drawing at Annexure-A, B, C, D & E.

All the Controller of Stores are advised to take immediate action to procure the required material based on the indents from the concerned Dy.CMEs and WMs to complete the given task within targeted time.

Dy.CME's of the Regions shall coordinate with the Zonal Workshops besides identifying the sources for providing emergency doors so as to complete this task with in time.

Works Manager shall make all out efforts to complete the provision of emergency door for all the buses of their zones identified in the first phase either through our employees or through outsourcing in coordination with the Dy.CME's of the Region.

:: 4 ::

The Regional Managers will be the nodal officers for ensuing complete of the task of providing emergency door to all the vehicles touching Karnataka state.

Executive Directors: Zones shall closely monitor the work of provision of emergency door under their jurisdiction and should ensure completion of this task of provision of emergency door within the time frame.

The compliance report shall be submitted to ED(E&IT) on weekly basis in the proforma enclosed for review.

This has the approval of FA & CAO.



VICE CHAIRMAN AND  
MANAGING DIRECTOR.

Copy to Director (V&S)/FA/CAO/All EDs/All HODs for information.

Copy to All EDs (Zones)/all RMs/Dy.CMEs/Dy.CAOs for nec.action.

Copy to All WMs/COSs for nec.action

Copy to Concerned DMs/AE(Mech) for nec.action.

Proforma

STATUS OF THE FITMENT OF EMERGENCY DOOR FOR BUSES TOUCHING KARNATAKA

STATE:

SL. NO	REGION	DEPOT	TYPE OF BUS	NO. OF BUSES IDENTIFIED	NO. OF BUSES COMPLETED	NO. OF BUSES WORK IN PROGRESS	REMARKS

**ANNEXURE-A**

1	2	3	4	5	6																																								
<p><b>DETAILS OF EMERGENCY DOOR LOCATION &amp; CONSTRUCTION</b></p>																																													
<p><b>FRAME STRUCTURE FOR GI TUBULAR DOOR</b></p>																																													
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Emergency door Bill Of Material for super luxury bus						
PART-A	DESCRIPTION OF MATERIAL	UT	QTY	QTY 3%	RATE	MAT-COST
NO						
1	Structure material	MT	2.45	2.52	156.00	393.67
1	60x40x 2 tube	MT	2.12	2.18	81.12	177.13
2	40x20x2 tube	NO	2.00	2.00	88.00	176.00
3	FORGED STEEL HINGES	MT	11.00	11.33	24.00	271.92
4	FLOCK CHANNEL.	NO	1.00	1.00	100.00	100.00
5	TOWER BOLT	KG	1.20	1.24	171.62	212.12
6	HINDALCO 6482	KG	9.00	9.27	53.00	491.31
7	Panelling Material	SM	9.00			
8	GI 0.91 FINISHERS	SM				
9	Door Material	MT	8.00	8.24	81.12	668.43
10	40x20x2 tube	NO	1.00	1.00	375.00	375.00
11	DOOR LOCKS HEAVY DUTY	NO	1.00	1.00	200.00	200.00
12	RUBBER PROFILE EPDM VALENCE	SM	1.09	1.09	750.00	817.50
13	TOU. GLASS 5.0 MM LIGHT GREY CURVED	NO	2.00	2.00	260.26	520.52
14	P.U.SEALENT 600 ML SACHETS	KG	0.65	0.67	95.00	63.60
15	RUBBER PROFILE FOR WINDOW SEALING	KG				
		TOTAL			4467.20	
PART-B						
1	40x20x2 tube	MT	2.12	2.18	81.12	177.13
2	G.I SHEET 0.91 MM SKINPASS	KG	4.46	4.59	53.00	243.47
3	SYN.VINYL .FLOOR MAT 2 MM	SM	0.55	0.57	269.77	152.82
4	PLYWOOD	SM	0.20	0.21	231.02	47.59
5	ALU.SHEET 1.22 MM Z SECTION AT WAIST.RAIL	KG	0.42	0.43	159.42	68.97
6	HINDALCO 6482	KG	3.88	4.00	171.62	685.86
		TOTAL			1375.85	
					GRAND TOTAL(A+B)	5843.05

NOTE: THE MATERIAL MENTIONED AT PART-B ,EXTRACTED WHILE OPENING THE BAY FOR EMERGENCY DOOR  
FITMENT,IF FOUND SERVISABLE SHALL BE REUSED.

**ANNEXURE -B**

1	2	3	4	5	6
<b>DETAILS OF EMERGENCY DOOR LOCATION &amp; CONSTRUCTION</b>					
A					
<b>FRAME STRUCTURE FOR ALU.Door</b>					
B					
C					
D					
<b>FRAME STRUCTURE FOR GI TUBULAR DOOR</b>					
A					
B					
C					
<b>ANDHRA PRADESH STATE ROAD TRANSPORT CORPORATION</b>					
TITLE NOTES: UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MILLIMETRES DO NOT SCALE DRAWING, DEUR AND BREAK ALL SHARP EDGES					
DRAWN	CHEKED	APPROVED	SUB TITLE	EMERGENCY DOOR	
DESIGN.	SUPDT(M) NAME(D)	Dy.CME (C&TYPE OF BODY)		DELUXE BUSES	
SIGN.				CHASSIS & ROH	
		DATE		SEATING	
		MATERIAL:		DWG NO.	
		AS PER SPEC			
REV/ISION	DATE				
1	2	3	4	WEIGHT:	5 SCALE: 6 SHEET 1 OF 1

**ANNEXURE - C**

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1	2	3	4	WEIGHT:	SCALE: 0 SHEET 1 OF 1																																										

Emergency door Bill Of Material with Aluminum material						
NO	DESCRIPTION OF MATERIAL	UT	QTY	QTY 3%	RATE	MAT-COST
1	ALU SHEET 1.22 MM	KG	1.85	1.90	133.90	254.87
2	HINDAL NO.6482	KG	2.70	2.78	150.00	416.53
3	HINDAL NO.2691	KG	0.83	0.85	147.00	125.52
4	INDAL 2613	KG	2.50	2.58	153.29	394.72
5	INDAL 2613	KG	0.95	0.97	153.29	149.36
6	INDAL 2684	KG	1.18	1.21	153.29	185.99
7	INDAL 3402	KG	2.17	2.24	153.29	342.62
8	INDAL 3402	KG	1.17	1.20	153.29	184.10
9	MS FLAT 25X3 mm	KG	0.09	0.09	38.00	3.56
10	MS FLAT 30X6MM	KG	0.70	0.72	38.00	27.40
11	ALU HANDLE 100 MM LONG	NO	1.00	1.00	10.00	10.00
12	COMMODE HANDLE 280 mm	NO	1.00	1.00	51.00	51.00
13	DOOR LOCK LORRY	NO	1.00	1.00	375.00	375.00
14	Railway Latch	NO	1.00	1.00	100.00	100.00
15	Flock channel	MT	11.00	11.33	24.00	264.00
15	DOVE TAIL CATCH	NO	1.00	1.00	21.00	21.00
17	STEEL FORGED HINGE 75MM	NO	2.00	2.00	88.00	176.00
18	STRIKING PLATE	NO	1.00	1.00	18.00	18.00
19	TOU. GLASS 5.0 MM LIGHT GREY	SM	1.09	1.09	480.00	523.20
20	INDAL 2654	KG	3.74	3.85	153.29	572.84
21	G.I.Sheet 2mm	SM	0.09	0.09	51.50	4.64
					<b>TOTAL</b>	<b>4200.36</b>

  
 Asst. Mechanical Engineer (A)  
 A. P. S. R. T. C.  
 OMRON ENGINEERING WORKS  
 OMRON ENGINEERING WORKS

**Emergency door Bill Of Material with M.S. material**

NO	DESCRIPTION OF MATERIAL	UT	QTY	QTY 3%	RATE	MAT-COST
	Structure material					
1	60x40x 2 tube	MT	0.69	0.71	156.00	110.87
2	40x20x2 tube	MT	2.08	2.14	81.12	173.79
3	FORGED STEEL HINGES	NO	2.00	2.00	88.00	176.00
4	FLOCK CHANNEL.	MT	11.00	11.33	24.00	271.92
5	Railway Latch	NO	1.00	1.00	100.00	100.00
8	GI 0.91 FINISHERS	SM	1.91	1.97	53.00	104.27
11	DOOR LOCKS HEAVY DUTY	NO	1.00	1.00	375.00	375.00
12	Sealing Rubber	MT	4.09	1.00	200.00	200.00
13	TOU. GLASS 5.0 MM	SM	1.09	1.09	480.00	523.20
15	RUBBER PROFILE FOR WINDOW SEALING	KG	0.65	0.67	95.00	63.60
1	40x20x2 tube	MT	5.40	5.56	81.12	451.19
5	ALU SHEET 1.12 MM Z SECTION AT WAIST.RAIL	KG	0.42	0.43	159.42	68.97
6	HINDALCO 6482	KG	2.69	2.77	150.00	415.61
7	INDAL 2654	KG	3.74	3.85	153.29	572.84
8	GI.Sheet 2mm	SM	0.09	0.09	51.50	4.64
					<b>TOTAL</b>	<b>3611.89</b>


  
 A. P. S. J. T. C.  
 Muthaibet, Hyderabad 500 020.

ANNEXURE-E

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## FABRICATION OF EMERGENCY DOOR ON AC BUSES

The emergency door shall be provided on right side on rear of rear wheels duly adjusting the position of seat to avoid fouling, from intermediate rail to cabin floor level. The profile of the door shall suit to the profile of the pillar. Door frame should be provided with valence rubber in suitable alu. Section fitted to the door frame on entire periphery on exterior side. Similar valence rubber shall be provided to door aperture from inside to avoid AC leakage. The Hinges provided shall be of heavy duty bend type to facilitate easy opening of the door and there shall not be any damage to the valence rubbers. The lock shall be of heavy duty of MSL make. One heavy duty stainless steel railway type latch shall be provided on interior top side of the door. The interior finishing of the door shall match the interior finishing of the bus in respect of material and colour. Thermocole (of 40 mm thick) filling shall be provided in between the exterior and interior panel of the door.

## **ESTIMATION FOR PROVISION OF EMERGENCY DOOR FOR GARUDA, GARUDA PLUS, VENNLA & INDRA BUSES**