



ANDHRA PRADESH STATE ROAD TRANSPORT CORPORATION
MECHANICAL ENGINEERING DEPARTMENT: BUS BHAVAN
HYDERABAD -500 020.

No: TL10/843(5)/AMED/2010-MED

Circular no. 28/2010-MED dt. 20-11-2010

SUBJECT : VEHICLES – Provision of 'CO₂ gas cylinders and pipe lines in buses to prevent burning during agitations – issue of instructions – Reg.

The corporation is operating buses to meet the requirements of commuters across the state even during the troubled times such as bundhs, agitations etc., But the corporation buses are being targeted by the agitators by resorting to stone pelting, breaking glasses, deflating tyres, damaging the seats and at times setting the buses on fire, causing interruptions for smooth operation of buses. In order to prevent such damages to the corporation buses certain measures were taken viz., provision of safety guards for glasses of buses etc., In line with this it is proposed to provide one CO₂ gas cylinder located at driver partition with pipe line connections running up to all tyres and HSD oil tank. This arrangement is provided with a gate valve in the reach of driver and nozzles to discharge the gas at desired locations. Whenever there is an impending danger of setting ablaze of tyres or HSD oil tank, the driver should open the gate valve of CO₂ cylinder so that the gas discharged through pipelines and nozzles extinguishes the fire preventing damages to the buses.

A detailed installation and lay-out sketch is enclosed herewith for reference. The required bill of material for providing 15 kg capacity

CO₂ gas cylinder with pipe lines in G.I. 25mm OD is also enclosed for reference.

Therefore, all the Depot Managers are advised to install the CO₂ gas cylinder with pipe lines arrangement as explained above in 10 % of buses held at city depots to ensure that the buses are operated without loss or damages to the corporation.

All the Dy.CME's/ RM's are also advised to review the installation of CO₂ gas cylinder with pipe lines arrangement regularly.

This has the approval of F.A.

Please acknowledge.

VICE CHAIRMAN AND MANAGING DIRECTOR

Encl: 1) Lay-out SKETCH1016 2) Bill of material

To

All the Depot Managers of the Corporation

Copy to: Director (V&S) for information,

Copy to: ED (A&P), ED (AM& HZ), ED(O&MIS), ED(GHZ) for Information

Copy to: FA, CAO, CFM for information,

Copy to: CME(C&B),CME(O),CTM for information and necessary action,

Copy to: The Regional Managers, HCR, SCR for information and necessary action,

Copy to: The Dy.CMEs / HCR, SCR for information and necessary action,

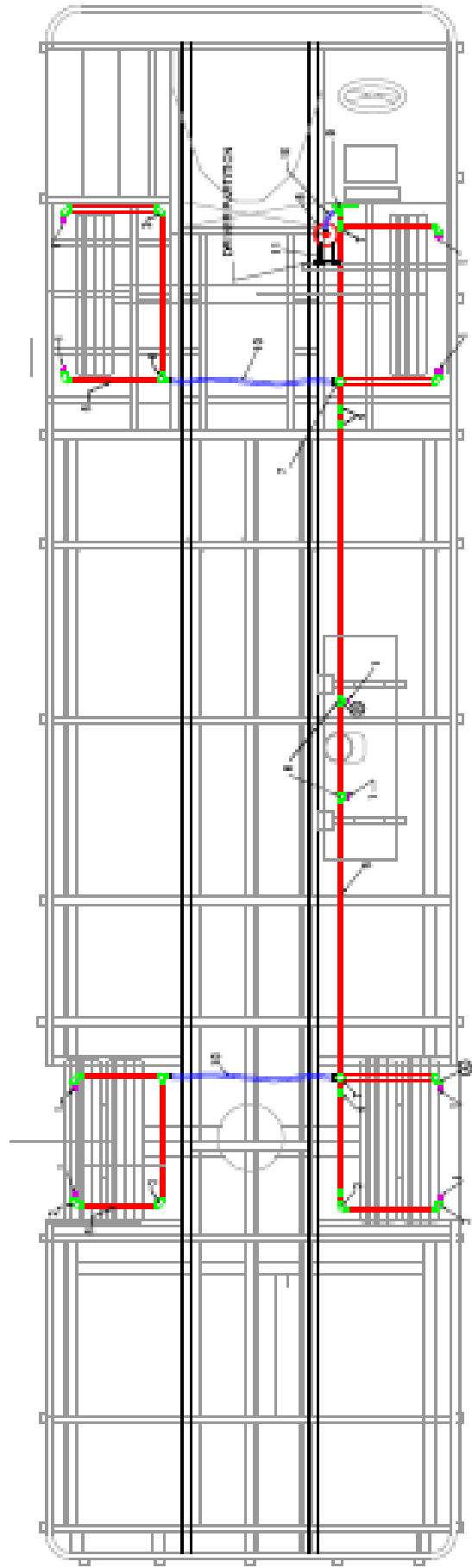
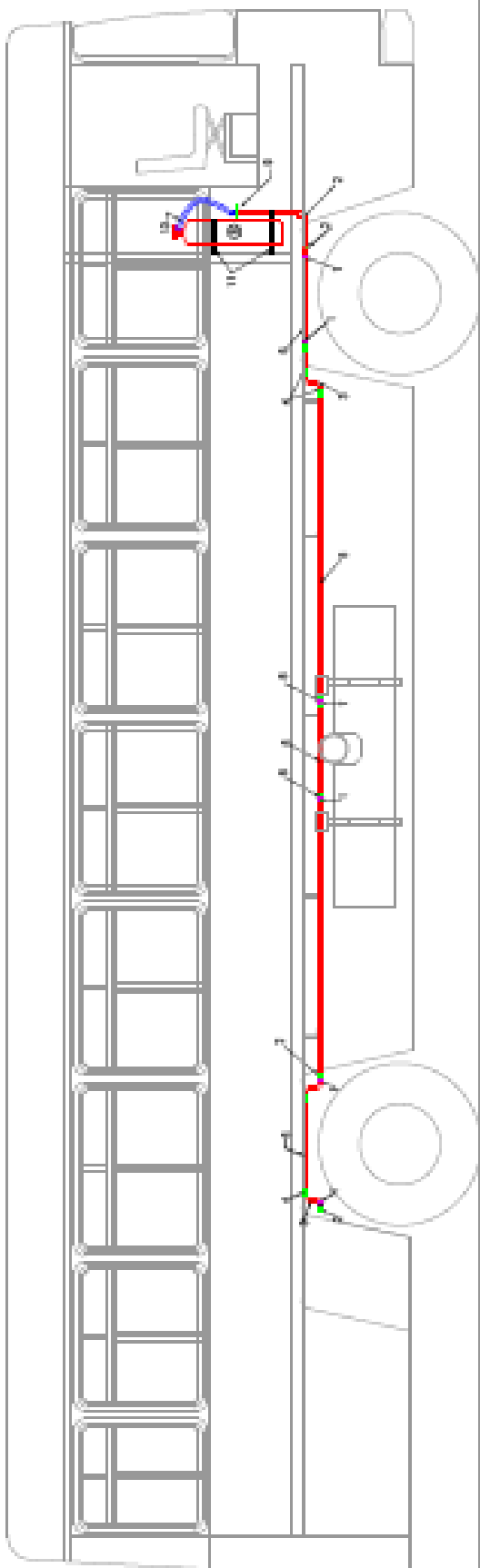
Copy to: All the Maintenance In-charges of GHZ for information and necessary action,

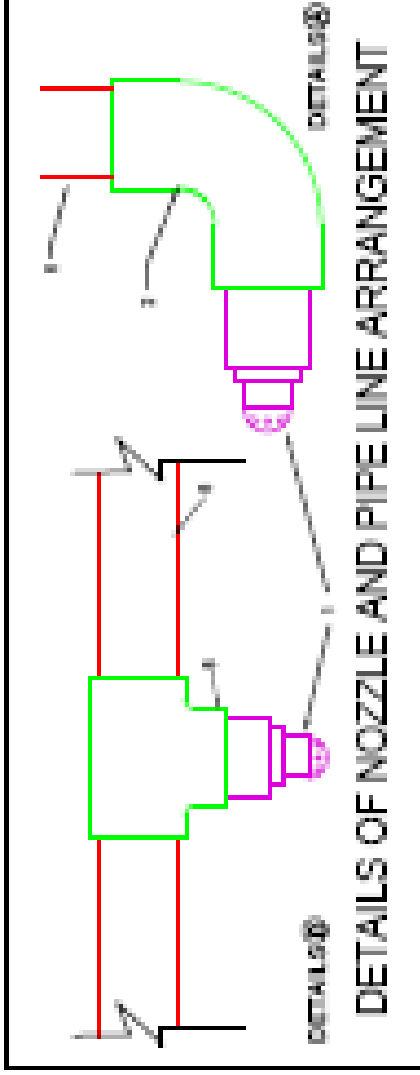
Copy to: Manual section

ANNEXURE TO CIRCULAR NO.28/2010-MED

BILL OF MATERIAL FOR INSTALLATION OF CO 2 GAS CYLINDER ARRANGEMENT IN BUSES

NO	DESCRIPTION OF MATERIAL	UT	QTY	RATE	AMOUNT
1	12 MM NOZZLE	NO	10.00	25.00	250.00
2	'L' BEND 12 MM	NO	12.00	15.00	180.00
3	'S' BEND 12 MM	NO	8.00	22.00	176.00
4	G.I COUPLING 12 MM	NO	8.00	20.00	160.00
5	G.I PIPE 12 MM ODX 2 MM	MT	12.00	110.00	1320.00
6	G.I 'T' COUPLING 12 MM	NO	4.00	22.00	88.00
7	G.I 4-WAY COUPLING 12 MM	NO	2.00	30.00	60.00
8	CO 2 CYLINDER 15KG CAPACITY WITH ADOPTER	NO	1.00	4800.00	4800.00
9	GATE VALVE ON /OFF	NO	1.00	380.00	380.00
10	HIGH PRESSURE RUBBER HOSE 16 MM OD	MT	4.00	30.00	120.00
11	M S FLAT 25X6 MM FOR CLAMPING	KG	2.39	38.00	90.82
12	M S FLAT 25X6 MM FOR PIPE LINE CLAMPING	KG	3.60	38.00	136.80
13	JUBLI CLIPS	NO	12.00	10.00	120.00
14	TOTAL MATERIAL COST				7115.62
15	HARDWARE AND CONSUMABLES				500.00
16	CONVERSION COST @ 25% ON MATERIAL				1778.91
17	TOTAL				9394.53
18	VAT @4%				284.62
19	TOTAL COST				9679.15





12	
11	CLAMPS IN M.S FLAT 25 X6 MM
10	HIGH PRESSURE RUBBER HOSE 16MM OD
9	GATE VALVE ON/OFF
8	CO 2 CYLINDER 15 KG CAPACITY
7	G.I. 4-WAY COUPLING 12MM
6	G.I. 'T' COUPLING 12MM ODX2 MM TH.
5	G.I.PIPE 12MM ODX2 MM TH.
4	G.I.COUPLING 12MM ODX2 MM TH.
3	'S' BEND 12 MM
2	'L' BEND 12 MM
1	NOZZLE 12 MM DIA.

NOTE:

1. CLAMP PIPE LINES TO THE BODY MEMBERS WITH M.S.FLAT 25X6 MM BRACKETS