Government of India
Ministry of Railways
INDIAN RAILWAYS ORGANIZATION FOR ALTERNATE FUELS
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IROAF/Solar/Workshop/G/01

Date: 16th December, 2015

CMEs
All Zonal Railways & Production units

Sub: Use of CNG for metal cutting in Railway Workshops/PUs

A trial demonstration for metal cutting by CNG was organised on 02.12.2015 at Jhansi Workshop. Some of the Railways made use of this opportunity by participating in this trial by deputing their staff at Jhansi.

During trial, it was established that the quality of metal cutting with CNG was matching with that achieved with Acetylene Gas. During trial, the timings of gas cutting with CNG & Acetylene were compared. The timings of cutting of MS sheets by CNG were same as those with Acetylene.

The cutting of scrap wheels and axles was also successfully demonstrated. A few photographs are enclosed for ready reference.

The cities where CNG supply is currently available is enclosed. CME's may like to commence use of CNG in Railway Workshop at these places. For other workshop, Railways may commence use of CNG as and when the CNG becomes available in those cities/nearby cities.

16.12.15

(G. K. Gupta)
CME (G)

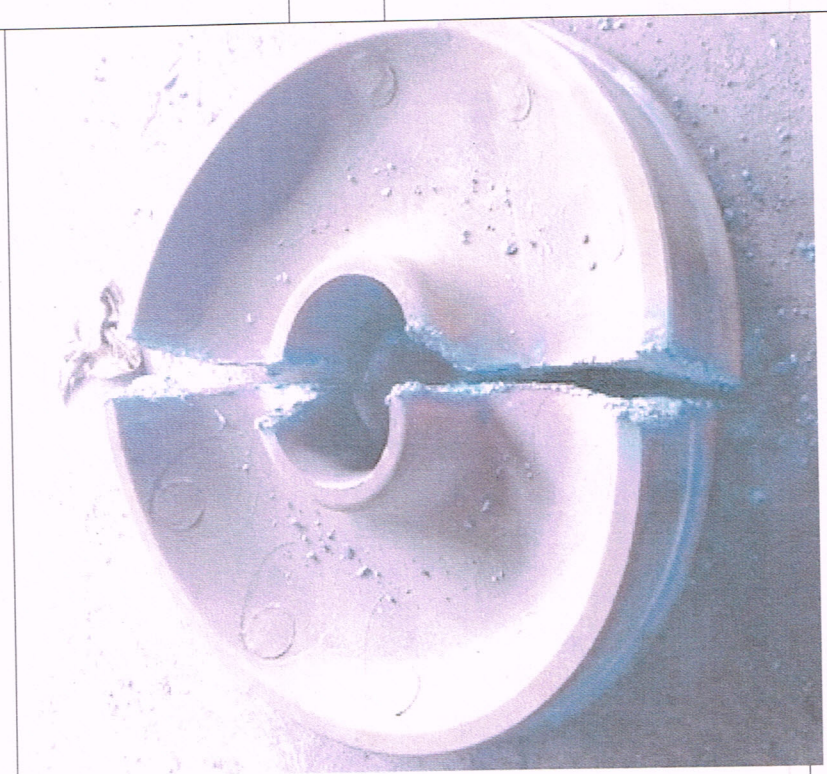
Demonstration Trial for use of CNG for metal cutting at Jhansi Workshop.



Cutting of Wheel disc by CNG.

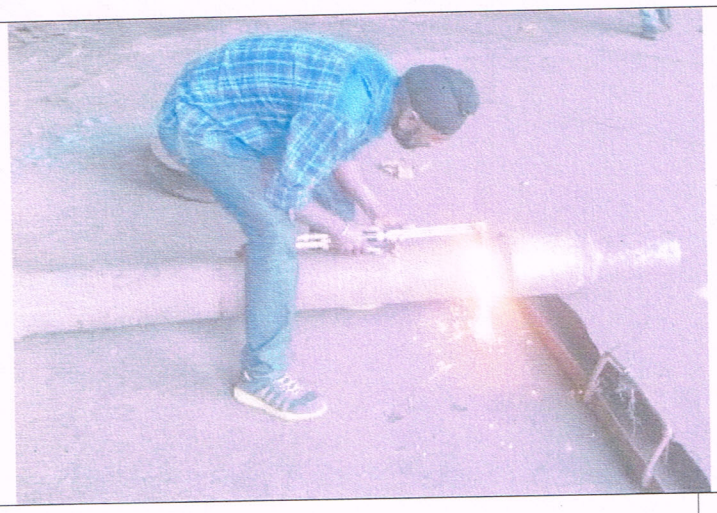


Half Wheel disc cut by CNG.

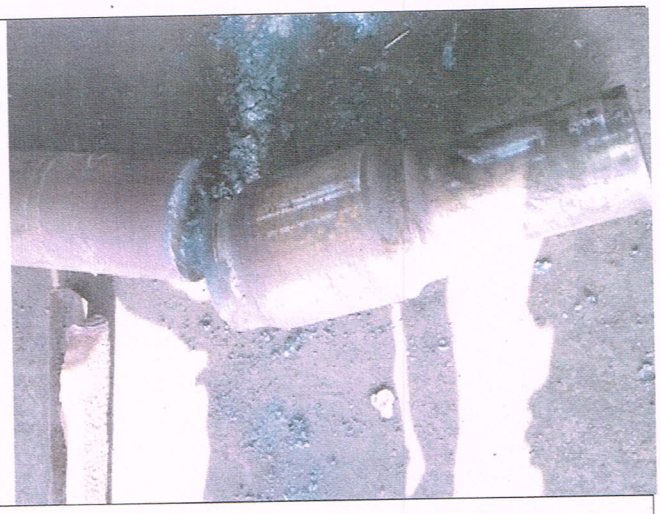


Full Wheel disc cut by CNG.

Demonstration Trial for use of CNG for metal cutting at Jhansi Workshop.



Cutting of Axle by CNG.



Axle cut by CNG.



Cutting of 8 mm MS floor by CNG.



Cutting of 8 mm MS floor by CNG.

Annexure – I

LIST OF WORKSHOPS WHERE CNG CAN BE INTRODUCED FOR METAL CUTTING/HEATING			
Sl. No.	NAME OF JVC	CITES & STATES COVERED	WORKSHOP TO BE COVERED
1.	Avantika Gas Ltd.	Gwalior	Rail Spring Karkhana, Sitholi
2.	Bhagyanagar Gas Ltd.	Vijayawada	Wagon Workshop, Rayanapadu
3.	Central UP Gas Ltd.	Baraily	Izatnagar Workshop
4.	Green Gas Ltd.	Lucnkow	Alambagh Workshop
			Charbagh Workshop
5.	Mahanagar Gas Ltd.	Mumbai	Matunga Workshop
			Parel Workshop
			Lower Parel Workshop
			Mahalaxmi Workshop
6.	GAIL Gas Ltd.	Sonipat	Jagadhri Workshop
		Kota	Kota Workshop
		Vadodra	Dahod Workshop
		Bangalore	RWF, Bangalore