

IN THE NAME OF GOD

**Malé Declaration Joint Training
on Regional Refresher Training Workshop
CPCB, India from 18 - 21 November 2010**



**IRAN Report
New Station at East of Iran (Hamoun)**

By:

Reza Mirshekar

Introduction:

Hamoun station has been established for monitoring transboundary air pollution in east Islamic Republic of IRAN. Site selection was performed based on *Malé Declaration on Control and Prevention of Air Pollution and Its Likely Transboundary Effects for South Asia*. Monitoring of transboundary air pollution was begun in Hamoun station in Aug 2010. The monitoring site has a building and other equipments for measuring and analyzing of the samples.

Climatic conditions of Hamoun:

Hamoun is located in the north of sistan & baloochestan province 1065 km far from Tehran enjoying an arid and semi-arid climate. The annual mean of temperature is 26.5°C and air temperature in the summer exceeds to 50°C. The rate of mean precipitation is 59 mm and the average of wind speed is 10.5 m/s and maximum wind speed is 18.6 m/s.

Hamoun monitoring station:

Hamoun monitoring station has been established in Aug 2010 based on criteria of Malé Declaration. This station is located in 52 km far from east of Zabol city and 4.2 km to common boundary Iran – Afghanistan near to Ghorghori village.

Station name	Hamoun
Geographic position	31° 15' of north latitude 61° 42' of east longitude
Altitude	465 m above sea level

Also we established another completely regional station near the Hamoun station. This station prepared analyzers such as PM10, NO_x, SO₂, O₃, CO.

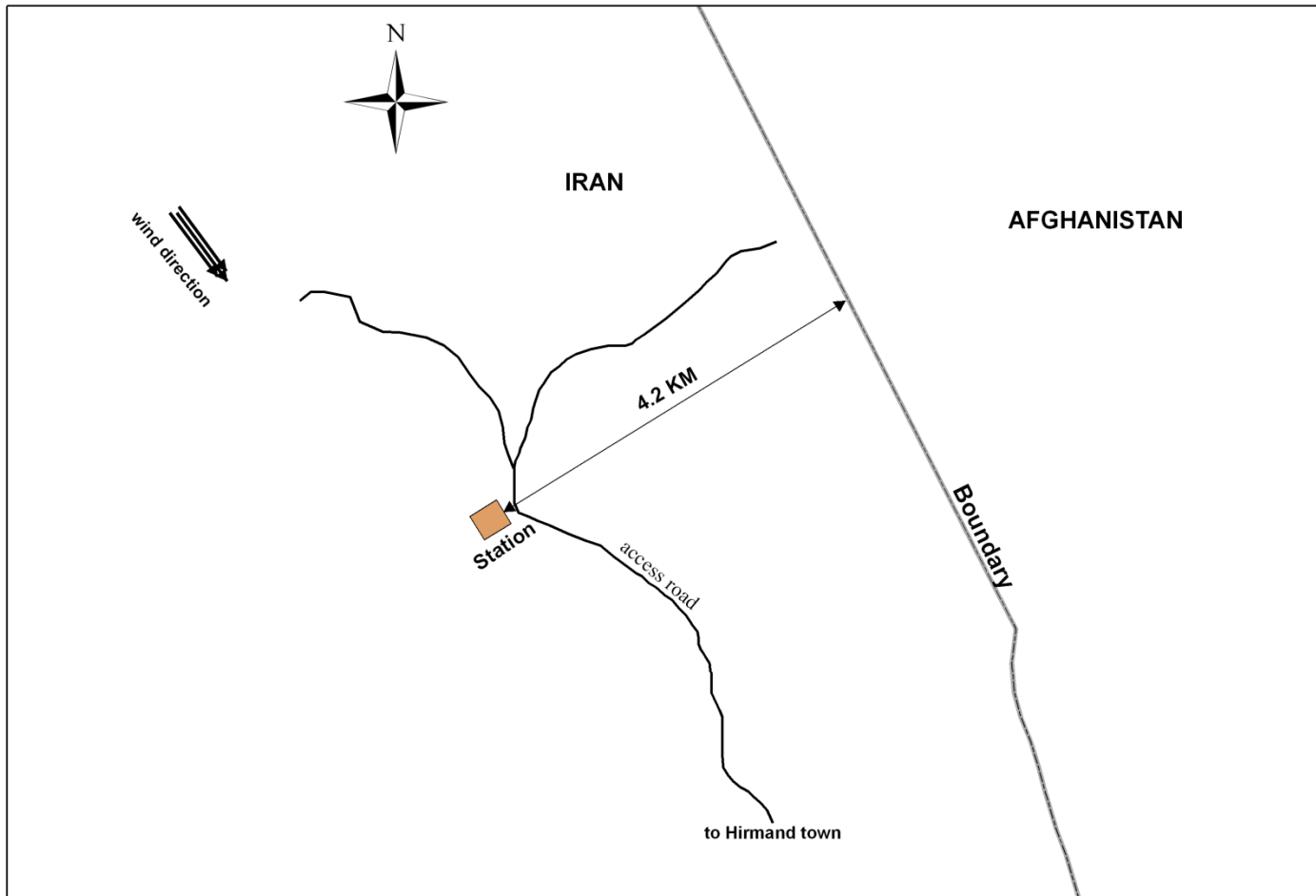
citabile from date we start, we don't have rain. Because we have drought more of 10 years.

Site activities and facilities:

The station contains a laboratory and other equipments such as Bulk Collector and Passive Samplers. Electricity power has been transferred to station. Sample preparing and simple tests (such as pH, EC, DO, Turbidity, TDS, ...) and other tests (such as NO_3 , NO_2 , NH_4 , SO_4 , PO_4 , Cl, ...) are done by an expert in the site laboratory.

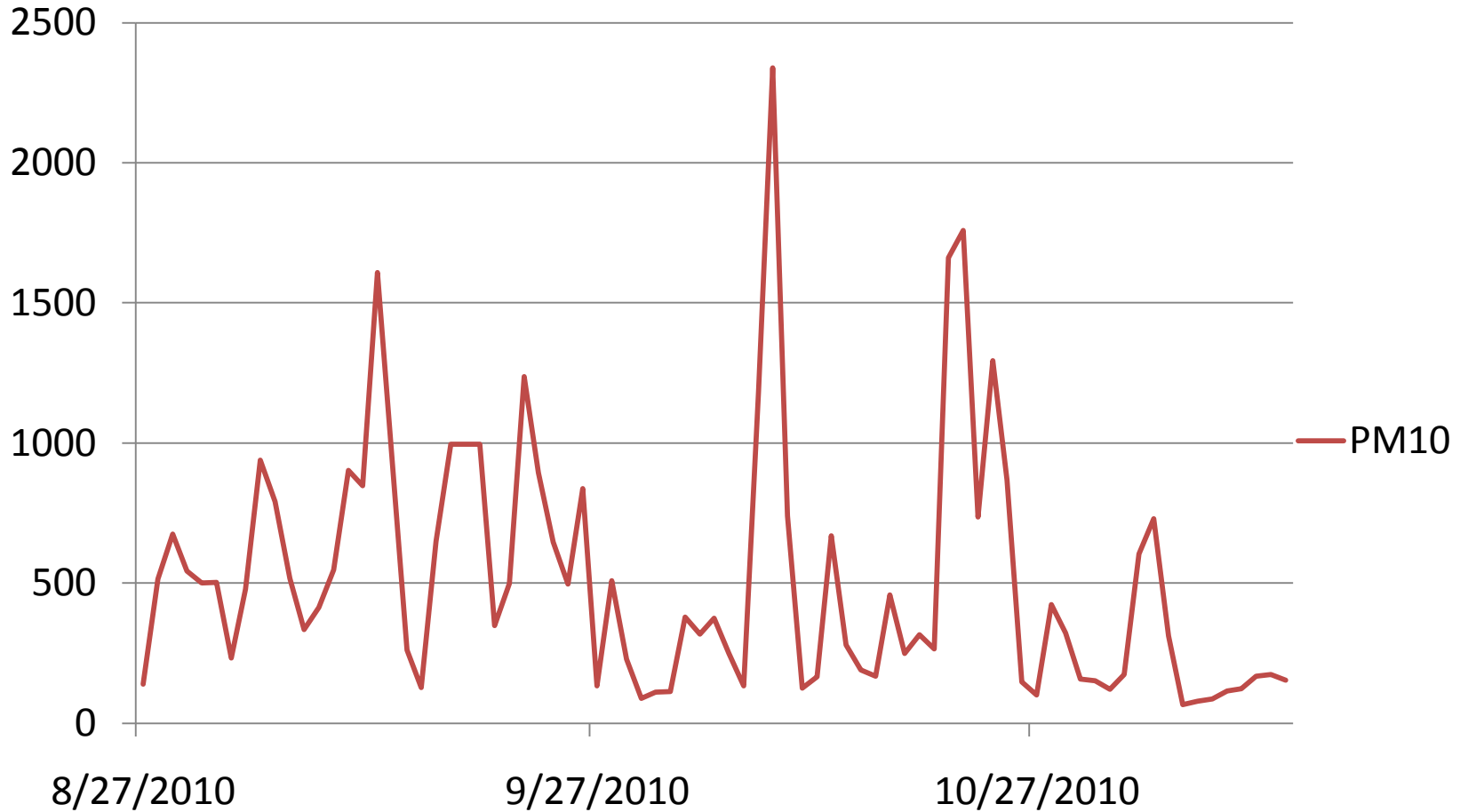
Laboratory area	30 m²
Bulk Collectors	Around the station
Passive Samplers	Around the station

Hamoun Transboundary Station



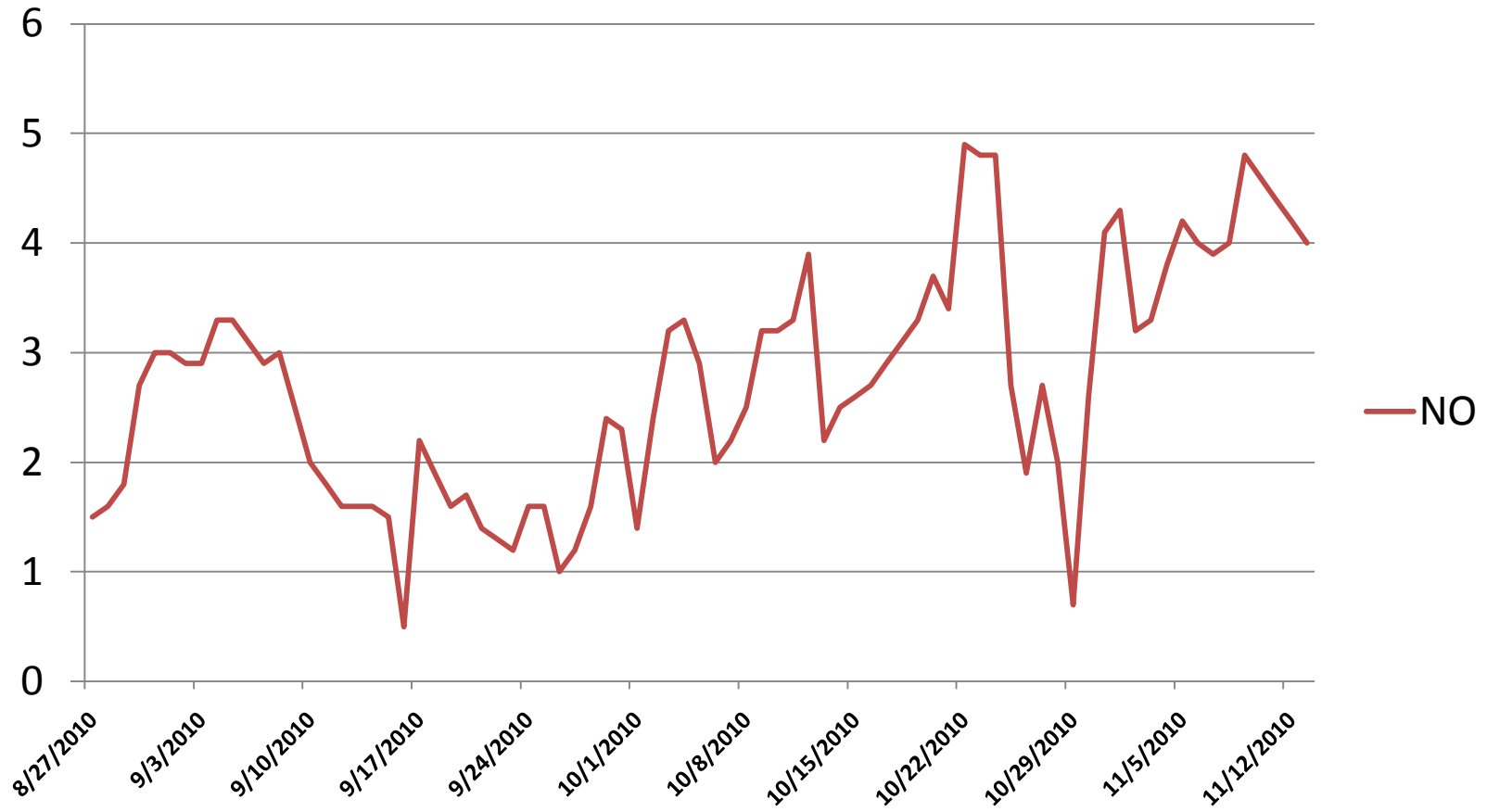
Data Report

PM10



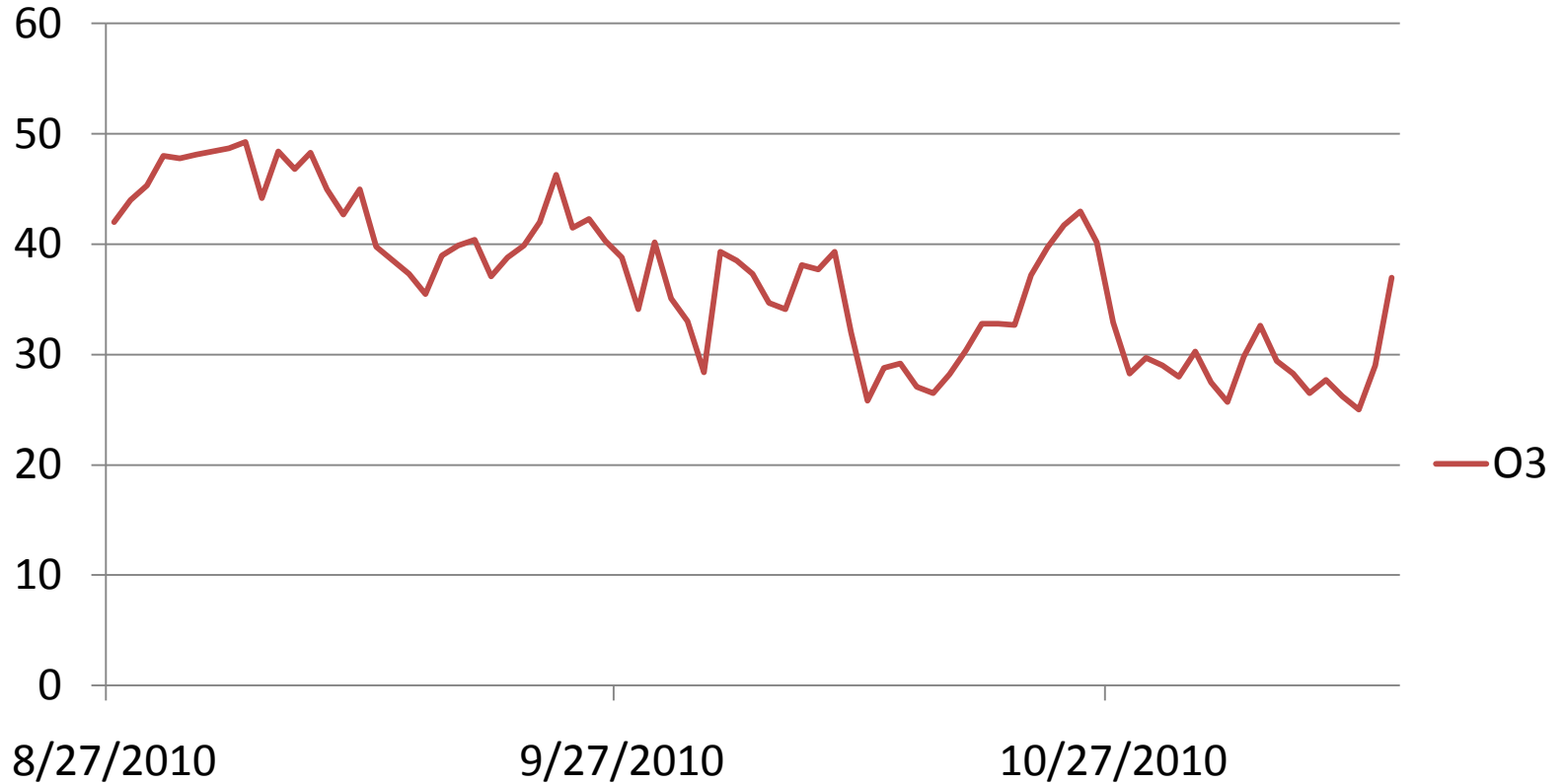
Data Report

NO



Data Report

03













Technical problems:

- High temperature has undesirable effects in the summer on plastic materials used in Bulk Collectors Funnel.
- Some birds use Bulk Collector Funnel for sitting and this action might contaminate the samples.
- Hamoun has very low precipitation at year.
- Hamoun has very strong wind.

Station Requirements

We need some equipments for new station of Hamoun such as Wet only , Bulk collectors and High volume sampler. we request you to sign MOU contract on establishing the monitoring station of transboundary air pollution of Hamoun. Also we need to budget for maintenance of the station and your financial support.

Plans For Next 3 years

- Establishment of a monitoring network for air pollution control in the country by setting the stations of air quality control.
- Constitution of committee for air quality control with cooperation of governmental and non-governmental organizations.
- Administration of air quality standards for cars and their companies.
- Invitation of public partnership to air pollution reduction.
- Installation of the station for air quality control in Zabol city.

Recommendations:

- Using of advanced equipments in monitoring stations for acceleration in measuring. Hamoun station is suitable for this aim.
- Using of online system for data report to the environmental laboratory in Hamoun continuously.
- Servicing and repairing of site equipments by maker companies.
- Providing the meteorological equipments in the site place with UNEP cooperation.

Acknowledgment:

I appreciate those who manage this conference, specially Government of India, UNEP, (UNEP RRC.AP), technical financial supporters of Male declaration.



Thank you