

# **Memorandum of Understanding**

**Between**

**Shri Sharda Bhavan Education society's**

**Indira Gandhi (Sr.) College, CIDCO,**

**Nanded**

**&**

**Maharashtra Pollution Control Board,**

**Mumbai**

**2020-21**

## **MEMORANDUM OF UNDERSTANDING**

Central Pollution Control Board is executing a nationwide programme of ambient air quality monitoring known as National Air Quality Programme (NAMP). The Network consists of more than 800 operating stations covering most of the states & union territories of the country.

In India National Ambient Air Quality Monitoring Programme (NAMP) was started in 1984.

### **The Objectives of the NAMP are**

- To determine status and trends of ambient air quality;
- To ascertain whether the prescribed ambient air quality standards are violated;
- To obtain the knowledge and understanding necessary for developing preventive & Corrective measures
- To understand the natural cleaning process undergoing in the environment through pollution dilution, dispersion, wind-based movement, precipitation, and chemical transformation of pollutants generated.

Under the National Air Quality Programme Four Air Pollutants namely Sulphur dioxide (SO<sub>2</sub>), Oxides of Nitrogen (NO<sub>2</sub>) Respirable Suspended Particulate Matter (RSPM / PM<sub>10</sub>) and Fine Particulate Matter (PM<sub>2.5</sub>) have been identified for regular monitoring at all the locations.

The monitoring of pollutants is carried out for 24 hours i.e. (4-hourly sampling for gaseous pollutants and 8-hourly sampling for particulate matter) with a frequency of twice a week each sampling station.

The monitoring is being carried out with the help of Central Pollution Control Board, State Pollution Control Boards & National Environmental Engineering

Research Institute (NEERI), Nagpur. CPCB co-ordinates with these agencies to ensure the uniformity, consistency of air quality data and provides technical and financial support to them for operating the monitoring stations.

In various states & union territories of the country, N.A.M.P. is being operated through various monitoring agencies

Considering the industrial area located in Nanded city of Maharashtra state, Maharashtra Pollution Control Board has agreed to hand over the three ambient air quality monitoring stations to Indira Gandhi (Sr.) College under National Air Monitoring Program of CPCB

Under this program **three selected fixed locations** are identified for monitoring of air quality status

1. Ganesh Nagar (Residential Area)
2. MPCB Office (Commercial Area)
3. MIDC Office (Industrial Area)

**Parameters:**

- SO<sub>2</sub>, NO<sub>x</sub>- 4 Hours for 24 Hrs round the clock twice a week at each Locations
- SPM & RSPM -8 Hours for 24 Hrs round the clock twice a week at each Locations
- PM<sub>2.5</sub>-one sample for 24 Hourly basis twice a week at only one location i.e., MPSC Office (Commercial Area)

The Project was sanctioned in 2019 but the actual analysis and sending readings (month wise data) to MPCB started in November 2020 due to covid pandemic

From November 2020 to October 2021 i.e., one year duration, two days allotted for each area. for analysis three field assistants and one scientific assistant are recruited by publishing job advertisement in the local news paper

Every field assistant has the responsibility to collect the filter paper and absorbing solution bottle from sampling station to college laboratory for every 8 hours and 4 hours (for 24 hours) respectively on daily basis.

And scientific assistant has the responsibility to analyse the samples. Analysis



**UV -Spectrophotometer**

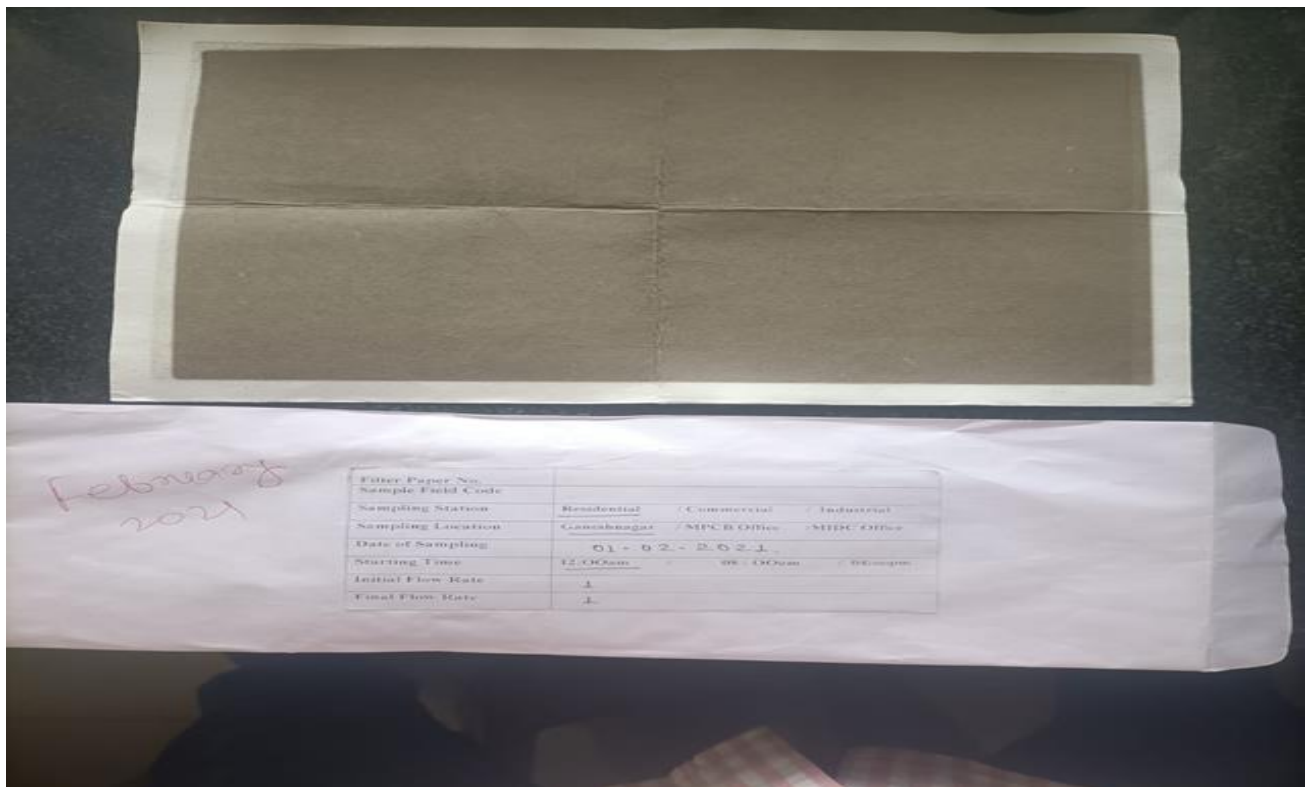


**Digital Balance**

of Gaseous sampling is performed with help of UV Spectrophotometer and Measurement of Glass Fiber filter is made with the help of Micro Balance (gravimetric Method)



**Field Assistant with RDS Machine Collecting the Filter Paper & Gas Absorbing Solution from Residential Area (Ganesh Nagar)**



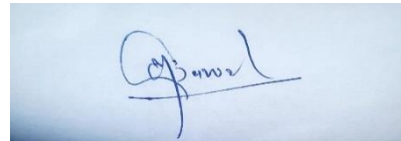
**Filter paper (after 8 Hours Sampling)**

NAMP is important to make decisions for the population's environment & Health. this program's efficient operation, overall sustainability and system performance are essential to maintain status of overall air quality.



Dr.K.R. Solunke

Principle Investigator



Dr.R.G. Pawale

Project Coordinator



**Principal**  
Indira Gandhi (Sr.) College,  
CIDCO, New Nanded. (M.S.)



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**2021-22**

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And scientific assistant has the responsibility to analyse that samples



**Junior Scientific Assistant Analysing Gaseous Samples in Laboratory**



**Field Assistant with RDS Machine Collecting the Filter Paper & Gas Absorbing Solution from Industrial Area (MIDC Office, Nanded)**



**Junior Scientific Assistant preparing Standard Graph for Analysing Gaseous Samples**

NAMP is important to make decisions for the population's environment & Health. this program's efficient operation, overall sustainability and system performance are essential to maintain status of overall air quality.



Dr.K.R. Solunke

Principle Investigator



Dr.R.G. Pawale

Project Coordinator



**Principal**  
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CIDCO, New Nanded. (M.S.)



Telephone No. Office (02462) 227426

Shri Sharda Bhavan Education Society'

## INDIRA GANDHI (SR.) COLLEGE,

CIDCO, NEW NANDED (Maharashtra) – 431603

Reg.No.:- N.G.C.2000/NMV/ (1/2000) M.S. 3 Dt.28 June 2000

(Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)

ISO 9001:2015 Certified

Best College Award by S.R.T.M. University, Nanded



ASHOKRAO SHANKARRAO CHAVAN  
B.Sc., M.B.A.  
PRESIDENT

D. P. SAVANT  
B.SC. (Hons)  
SECRETARY

DR.R. P. MALI  
M.Sc., Ph. D  
PRINCIPAL

### MOU Functional Report

Department of Environmental Science of our college and U.G. and P.G. Department of Environmental Science Dr. Khatri Mahavidyalaya Tukurn, Chandrapur (formerly named as Arts, Commerce and Science college, Tukum Chandrapur ) has MoU from **1<sup>st</sup> July 2021** for sharing of knowledge , but before that Head, dept. of Environmental Science of Arts, Commerce and Science college , Tukum Chandrapur **Dr. Mahendra Thakre** was invited as guest to deliver lecture on the theme of World Environment Day i.e. **“Need of Ecosystem Restoration”** the programme was held on **06-June-2021** which was online mode. **Dr. Mahendra Thakre** has also given his lecture on **‘Remote Sensing’** is partial part of B.Sc. third year syllabus the lecture was scheduled on 25<sup>th</sup> June 2021 in online mode.

Subsequently, Dr.Rajkumar Pawale , Head dept. of Environmental Science of our college was invited by Dr. Mahendra Thakre to delivered lecture on **“Degradation, Assessment and Prevention At Our Workplace”** on 26 June 2021 For B.Sc. and M.Sc. students the topic was partial part of their syllabus, this lecture was also delivered in online mode.

  
Dr. Mirza S.B.  
Director  
Internal Quality Assurance Cell  
Indira Gandhi (Sr.) College,  
CIDCO, New Nanded. (M.S.)

  
Principal  
Indira Gandhi (Sr.) College,  
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