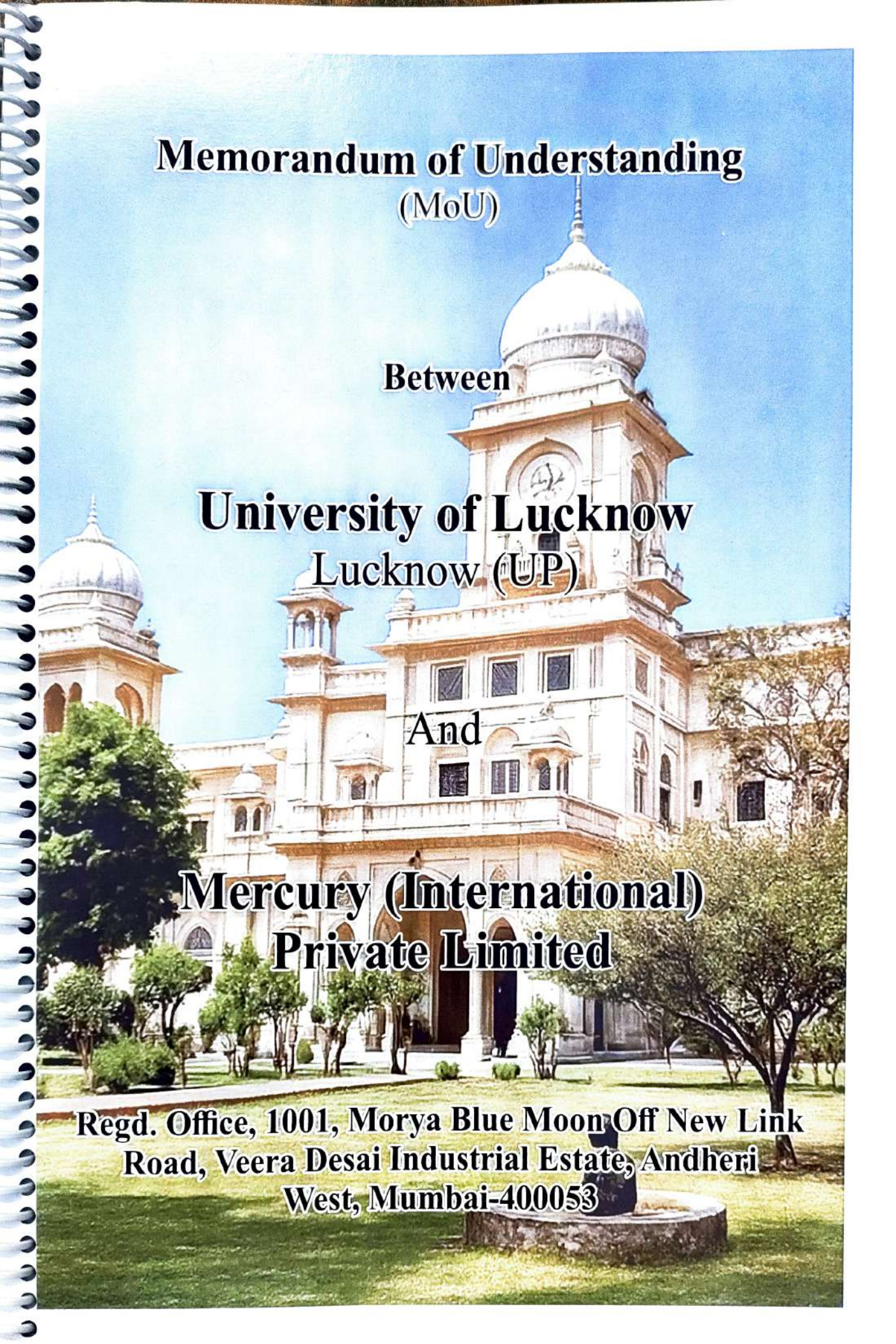


The background of the document is a photograph of the University of Lucknow's main building. It is a large, ornate, light-colored structure with multiple domes and arches, set against a clear blue sky. The building is surrounded by green lawns and trees. In the foreground, there is a small, circular stone structure, possibly a well or a fountain base.

Memorandum of Understanding (MoU)

Between

**University of Lucknow
Lucknow (UP)**

And

**Mercury (International)
Private Limited**

**Regd. Office, 1001, Morya Blue Moon Off New Link
Road, Veera Desai Industrial Estate, Andheri
West, Mumbai-400053**

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Profile of the Company

At a Glance

Name of the Company	: Mercury (International) Pvt Ltd.
Register office Address	: 1001, Morya Blue Moon, CTS-655, PLOT-B-57, Dalia Ind. Layout Off New Link Road, Oshiwara, Andheri West, Mumbai- 400053 (Maharashtra)
GST Number	: 09AACCM4853A1ZP
MSME Number	: UDYAM-UP-43-0056260
CIN Number	: U61200MH1994PTC390051
Registration No.	: 11-76716 (1994)
Date of Incorporation	: 21.02.1994
Business Activity	: Water Treatment Technology
Field of Specializations	: (A) Drinking Water Treatment (B) Waste Water Treatment (C) Industrial Water Treatment

Valued Customer of the Company -

1. Central Electronics Engineering Institute, an undertaking of the Council of Scientific & Industrial Research, Ministry of Science and Technology, Govt. of India.
2. Central Public Works Department, Ministry of Urban Development, Govt. of India

3. Ministry of Railways, Govt. of India
4. Bharat Heavy Electricals Ltd.
5. Indian Ordnance Factories, Ministry of Defence, Govt. of India
6. Indian Navy, Ministry of Defence, Govt. of India
7. Bharat Sanchar Nigam Ltd. Ministry of Communication, Govt. of India
8. National Chemical Laboratory, an undertaking of the Council of Scientific & Industrial Research, Govt. of India
9. Coal India Limited, Ministry of Coal and Mines, Govt. of India
10. Jawahar Lal Nehru Port Trust, Ministry of Shipping, Govt. of India
11. Steel Authority of India, Ministry of Steel, Govt. of India
12. Government of Uttar Pradesh
13. Government of Uttarakhand
14. Government of Maharashtra
15. Government of Goa
16. Government of Madhya Pradesh
17. Government of Karnataka

Certificate of Appreciation, Ministry of Finance, Govt. of India

- Ministry of finance, govt. of India issues a certificate of appreciation every year with regards to our integrity and prosperous.



सत्यमेव जयते



Government of India Ministry of Finance



*The Central Board of Indirect Taxes and Customs conveys its appreciation to **MERCURY (INTERNATIONAL) P LTD** having GST registration number **09AACCM4853A1ZP** for their prompt filing of returns and payment of Goods and Services Tax during the financial year 2022-23, thereby substantially contributing to building a strong and resilient nation.*



Vivek Johri
Chairman



Government of India Ministry of Finance

**CERTIFICATE
OF APPRECIATION**

The Central Board of Indirect Taxes and Customs conveys its appreciation to M/S MERCURY (INTERNATIONAL) PVT. LTD.

having GST registration number 09AACCM4853A1ZP for their prompt filing of returns and payment of Goods and Services Tax during the financial year 2023-24, thereby substantially contributing to building a strong and resilient nation.

Sanjay Kumar Agarwal
Chairman

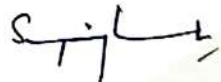


Government of India Ministry of Finance

**CERTIFICATE
OF APPRECIATION**

*The Central Board of Indirect Taxes and Customs conveys its appreciation to **MERCURY (INTERNATIONAL) P LTD** having GST registration number **27AACCM4853A1ZR** for their prompt filing of returns and payment of Goods and Services Tax during the financial year 2024-25, thereby substantially contributing to building a strong and resilient nation.*

75
आज़ादी का
अमृत महोत्सव


Sanjay Kumar Agarwal
Chairman



Government of India

Form GST REG-06

[See Rule 10(1)]

Registration Certificate

Registration Number :09AACCM4853A1ZP

1.	Legal Name	MERCURY (INTERNATIONAL) P LTD			
2.	Trade Name, if any	MERCURY (INTERNATIONAL) P LTD			
3.	Additional trade names, if any				
4.	Constitution of Business	Private Limited Company			
5.	Address of Principal Place of Business	2A/244-4A, Azad Nagar Road, Kanpur, Kanpur Nagar, Uttar Pradesh, 208002			
6.	Date of Liability	01/07/2017			
7.	Date of Validity	From	01/07/2017	To	Not Applicable
8.	Type of Registration	Regular 			
9.	Particulars of Approving	Uttar Pradesh Goods and Services Tax Act, 2017			
Signature		Signature Not Verified Digitally signed by DS GOODS AND SERVICES TAX NETWORK 07 Date: 2023 04 15 14:45:36 IST			
Name		ABHISHEK KUMAR MISHRA			
Designation		Assistant Commissioner			
Jurisdictional Office		Kanpur Sector-17			
Date of issue of Certificate		15/04/2023			
Note: The registration certificate is required to be prominently displayed at all places of Business/Office(s) in the State.					

This is a system generated digitally signed Registration Certificate issued based on the approval of application granted on 15/04/2023 by the jurisdictional authority.



Goods and Services Tax Identification Number: 09AACCM4853A1ZP

Details of Additional Place of Business(s)

Legal Name MERCURY (INTERNATIONAL) P LTD

Trade Name, if any MERCURY (INTERNATIONAL) P LTD

Additional trade names, if any

Total Number of Additional Places of Business(s) in the State 1

1 PLOT NO. 179, MANDHANA, BAHLOLPUR, Bithoor, Kanpur Nagar, Uttar Pradesh, 209217



Goods and Services Tax Identification Number: 09AACCM4853A1ZP

Legal Name MERCURY (INTERNATIONAL) P LTD

Trade Name, if any MERCURY (INTERNATIONAL) P LTD

Additional trade names, if any

Details of Managing / Whole-time Directors and Key Managerial Persons

1		Name	DURGESH RAI
		Designation/Status	DIRECTOR
		Resident of State	Uttar Pradesh
2		Name	HEMANSHU RAI
		Designation/Status	DIRECTOR
		Resident of State	Uttar Pradesh



भारत सरकार
Government of India
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises



UDYAM REGISTRATION CERTIFICATE

UDYAM REGISTRATION NUMBER

UDYAM-UP-43-0056260

NAME OF ENTERPRISE

MERCURY (INTERNATIONAL) P.LTD.

TYPE OF ENTERPRISE *

S.No.	Classification Year	Enterprise Type	Classification Date
1	2022-23	Small	18/03/2023

MAJOR ACTIVITY

MANUFACTURING

SOCIAL CATEGORY OF
ENTREPRENEUR

GENERAL

NAME OF UNIT(S)

S.No.	Name of Unit(s)
1	MERCURY (INTERNATIONAL) P.LTD.

OFFICIAL ADDRESS OF ENTERPRISE

Flat/Door/Block No.	2A/244-4A	Name of Premises/ Building	GYAN KUNJ
Village/Town	AZAD NAGAR	Block	NAWAGGANJ
Road/Street/Lane	ZOO ROAD	City	KANPUR
State	UTTAR PRADESH	District	KANPUR NAGAR , Pin 208002
Mobile	9415100300	Email:	mer21021994@gmail.com

DATE OF INCORPORATION /
REGISTRATION OF ENTERPRISE

21/02/1994

DATE OF COMMENCEMENT OF
PRODUCTION/BUSINESS

21/02/1994

NATIONAL INDUSTRY
CLASSIFICATION CODE(S)

S.No.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity
1	20 - Manufacture of chemicals and chemical products	2011 - Manufacture of basic chemicals	20119 - Manufacture of organic and inorganic chemical compounds n.e.c.	Manufacturing
2	25 - Manufacture of fabricated metal products, except machinery and equipment	2512 - Manufacture of tanks, reservoirs and containers of metal	25122 - Manufacture of metal reservoirs, tanks and similar containers	Manufacturing
3	26 - Manufacture of computer, electronic and optical products	2610 - Manufacture of electronic components	26109 - Manufacture of other electronic components n.e.c.	Manufacturing
4	28 - Manufacture of machinery and equipment n.e.c.	2829 - Manufacture of other special-purpose machinery	28299 - Manufacture of other special-purpose machinery n.e.c.	Manufacturing
5	33 - Repair and installation of machinery and equipment	3312 - Repair of machinery	33122 - Repair and maintenance of pumps and related equipment, fluid power equipment, valves	Manufacturing
6	33 - Repair and installation of machinery and equipment	3320 - Installation of industrial machinery and equipment	33200 - Installation of industrial machinery and equipment	Manufacturing
7	36 - Water collection, treatment and supply	3600 - Water collection, treatment and supply	36000 - Water collection, treatment and supply	Manufacturing
8	37 - Sewerage	3700 - Sewerage	37003 - Treatment of waste water or sewer by means of physical, chemical or biological processes	Manufacturing
9	41 - Construction of building	4100 - Construction of buildings	41001 - Construction of buildings carried out on own-account basis or on a fee or contract basis	Manufacturing
10	62 - Computer programming, consultancy and related activities	6202 - Computer consultancy and computer facilities management activities	62020 - Computer consultancy and computer facilities management activities	Services
11	74 - Other professional, scientific and technical activities	7490 - Other professional, scientific and technical activities n.e.c.	74909 - Other professional, scientific and technical activities n.e.c.	Services

DATE OF UDYAM REGISTRATION

18/03/2023

* In case of graduation (upward/reverse) of status of an enterprise, the benefit of the Government Schemes will be availed as per the provisions of Notification No. S.O. 2119(E) dated 26.06.2020 issued by the M/o MSME.

Disclaimer: This is computer generated statement, no signature required. Printed from <https://udyamregistration.gov.in> & Date of printing:- 18/03/2023

For any assistance, you may contact:

1. District Industries Centre: KANPUR NAGAR (UTTAR PRADESH)

2. MSME-DFO: KANPUR (UTTAR PRADESH)

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Objective

Water is the most precious gift of nature and access to safe drinking water is essential for sustaining human life and good health. It is a well-established fact that a significant proportion of waterborne diseases are caused by harmful bacteria, viruses and other pathogenic microorganisms present in contaminated water. Therefore, it is imperative that drinking water be rendered free from disease-causing pathogens to ensure public health and well-being.

According to the manual of the ministry of Urban Development, Government of India, it is mandatory that residual chlorine be in the range of 0.2-0.5 ppm at the consumer-end in the community water supply for the disinfection of drinking water. Disinfection is a critical process for achieving complete bacteriological purification. Among various methods of disinfection, chlorination has been universally accepted as one of the most effective, economical and scientifically proven techniques for elimination of harmful microorganisms from drinking water.

Traditionally, bleaching powder and gas has been used for chlorination purposes. However, due to several operational, safety and handling challenges associated with these methods, they are increasingly being replaced by Sodium Hypochlorite, a disinfecting chemical approved under relevant Bureau of India Standards (IS:10500-2012) specifications and widely adopted for effective elimination of harmful bacteria and viruses.

To achieve efficient and controlled chlorination through the use of Sodium Hypochlorite, advanced automated treatment systems have been developed. These systems utilize Programmable Logic Controller (PLC) based and AI-Powered technology for fully automated operation and monitoring. The technology is capable of regulating the treatment process in conjunction with key water quality parameters such as Flow Rate, Total Dissolved Solids (TDS) and pH Levels, thereby ensuring reliable and complete bacteriological purification of drinking water.

Mercury (International) Private Limited has the distinction of being the first company to develop and introduce an AI-Powered Automatic Bacteriological Water Treatment Plant, i.e. Chloroplant, equipped with PLC Technology. The system is designed to provide efficient, reliable and customized water disinfection solutions based on the specific requirements of the user.

With the objective of promoting public health and ensuring the availability of hygienically safe drinking water, Mercury (International) Private Limited proposes to install, commission, operate and maintain an Automatic AI-Powered Bacteriological Water Treatment Plant, i.e. Chloroplant, based on cutting-edge technology at the New Campus of the University of Lucknow under its Corporate Social Responsibility (CSR) initiative. This initiative is intended to benefit students, faculty members, staff of their families by ensuring the continuous supply of safe drinking water conforming to applicable Bureau of India Standards (IS:10500-2012).

Technology Features

1. India's first AI-Powered Bacteriological Water Treatment Plant, i.e. Chloroplant
2. Offers treatment of water in conjunction with Flow Rate, pH, and TDS of water.
3. Designed to configure the operation of plant, i.e. Chloroplant, as per the user's need and requirement.
4. Based on the use of chemical called Calfix Grade-A (Technical), conforming to Bureau of Indian Standards (IS:10500-2012), Government of India.
5. Compact and efficient design, occupying less floor area for installation.
6. Provided with all safety features to enhance the service life at optimal operational efficiency.
7. Works automatically without any operator attention on a day-to-day basis for efficient operation.
8. Rugged in design, capable of withstanding harsh Indian environment conditions.
9. Low energy consumption of 100 watts and a long service life of 10 years assuming proper maintenance.

Technological Accreditation

1. Central Electronics Engineering Institute, an undertaking of the Council of Scientific & Industrial Research, Ministry of Science and Technology, Govt. of India.
2. Central Public Works Department, Ministry of Urban Development, Govt. of India
3. Ministry of Railways, Govt. of India
4. Bharat Heavy Electricals Ltd.
5. Indian ordinance Factories, Ministry of Defence, Govt. of India
6. Indian Navy, Ministry of Defence, Govt. of India
7. Bharat Sanchar Nigam Ltd. Ministry of Communication, Govt. of India
8. National Chemical Laboratory, an undertaking of the Council of Scientific & Industrial Research, Govt. of India
9. Coal India Limited, Ministry of Coal and Mines, Govt. of India
10. Jawahar Lal Nehru Port of Trust, Ministry of Shipping, Govt. of India
11. Steel Authority of India, Ministry of Steel, Govt. of India
12. Government of Uttar Pradesh

13. Government of Uttarakhand
14. Government of Maharashtra
15. Government of Goa
16. Government of Madhya Pradesh
17. Government of Karnataka
18. And many more

Scope of Work

Installation, commissioning, operation and maintenance of an automatic AI-Powered Bacteriological Water Treatment Plant, i.e. Chloroplant, and digital online chlorine analyzer for supply of hygienically safe drinking water as per Bureau of Indian Standards (IS:10500-2012) for the welfare of students, staff and their family members at the New University Campus under the Corporate Social Responsibility (CSR) scheme, inclusive of one year of operation and maintenance.

Cost of the Project

The project includes installation, commissioning, operation and maintenance of the automatic AI-Powered plant, i.e. Chloroplant, and digital online chlorine analyzer with essential spares and accessories including the cost of chemical consumption for one year, and deployment of skilled manpower for periodical testing of treated water quality, will be completed at a total cost of Rs. 21,96,000 (Twenty-One Lakh Ninety-Six Thousand Rupees)

Responsibilities of University

1. The University will provide a suitable location for Mercury (International) Private Limited to install an AI-Powered Bacteriological Water Treatment Plant, i.e. Chloroplant and digital chlorine analyzer.
2. The university will provide free electricity for the installation of Water Treatment Plant, i.e. Chloroplant, and digital chlorine analyzer at the designated site.
3. The university will provide free electricity for the installation of Water Treatment Plant, i.e. Chloroplant, and digital chlorine analyzer. The plant electricity consumption is approximately 100 Watt.
4. The University will provide adequate safety and security for the plant, i.e. Chloroplant and digital chlorine analyzer during pre-installation, post-installation, operation and maintenance.
5. Upon observing the satisfactory performance of the plant, i.e. Chloroplant and digital chlorine analyzer, the university may purchase additional plants, i.e. Chloroplant and digital chlorine analyzers from the company at a manually agreed upon price for other locations, in order to provide hygienically safe drinking water for the welfare of additional students and staff members.
6. The university will provide all administrative support necessary to successful execution of the project.

Responsibilities of Company

1. The company will supply, installation and commission of the plant, i.e. Chloroplant and digital online chlorine analyzer satisfactorily for the hygienic treatment of drinking water in accordance with the Bureau of Indian Standards (BIS), Government of India, without any charge to the University.
2. The company will look after the operation and maintenance of the plant, i.e. Chloroplant and digital online chlorine analyzer for the duration of one year, without any charge to the University.
3. The company will supply all essential spare parts and accessories required for the satisfactory operation of the plant, i.e. Chloroplant and digital online chlorine analyzer for the duration of one year, without any charge to the University.
4. The company will supply the required chemicals, conforming to Bureau of Indian Standards (IS:10500-2012) for the satisfactory operation of the plant, I.e. Chloroplant, for the duration of one year, without any charge to the University.
5. The company will deploy skilled manpower to ensure the satisfactory and efficient operation of the plant, i.e. Chloroplant and digital chlorine analyzer for the duration of one year, without any charge to the University.

6. The company will arrange periodic testing of treated water quality to ensure the effective operation of the plant, i.e. Chloroplant for the duration of one year, without any charge to the University.
7. The company will provide free maintenance for the plant, i.e. Chloroplant and digital online chlorine analyzer throughout its 10-year Service life, covering the supply of essential spares and accessories as well as periodic technical supervision.
8. After one year, the operational cost of the automatic water treatment plant, i.e. Chloroplant will be charged to the University at a rate of Rs 850 per million liters, which is subjected to a 5.5% escalation per annum which includes the cost of chemical, packaging, handling, forwarding, transportation and periodical testing of water. The cost also includes the maintenance of the digital chlorine analyzer.
9. To ensure hygienically safe drinking water at other locations in the University premises, the company will provide water treatment plants, i.e. Chloroplant and digital online Chlorine analyzer on payment basis following University rules and regulations. The company will provide the special package along with the supply of additional plants that includes exemption from maintenance charges throughout the plants service life of 10 years while the operation costs will be payable at a rate of Rs 850 per million liters from the date of satisfactory commissioning of the plants which is subject to a 5.5% escalation per annum.

CSR Provisions

1. The installation, commissioning, operation and maintenance of the AI-Powered Automatic Bacteriological Treatment Plant, i.e. Chloroplant, shall be undertaken by Mercury (International) Private Limited under its Corporate Social Responsibility (CSR) initiative with the objective of providing hygienically safe drinking water to the students, faculty members, staff and visitors of the University of Lucknow.
2. The project shall be implanted on a non- commercial and welfare-oriented basis for the benefit of the University Community and shall not be construed as a profit-making activity.
3. Mercury (International) Private Limited shall bear the costs toward supply, installation, commissioning, operation and maintenance, essential spares, accessories, chemical, water quality testing and skill manpower deployment for the period specified under this MoU as a part of its CSR Initiative.
4. The University of Lucknow shall provide suitable space, access to water and electricity, and all necessary administrative support required for installation and operation of the plant, i.e. Chloroplant.
5. Both parties shall cooperate in ensuring the successful implementation and sustainability of the project for achieving the intended public health objectives.

6. Mercury (International) Private Limited shall be entitled to acknowledge the project as a CSR initiative in its statutory reports, annual reports, corporate publications, website and other communication materials, subject to maintaining the dignity and reputation of the University.
7. The University of Lucknow may display suitable signage at the project site acknowledging the contribution of Mercury (International) Private Limited under its CSR Program.
8. The parties shall agree that this CSR initiative is intended to promote public health and access to safe drinking water and shall be implemented in accordance with applicable laws, rules and regulation of India.
9. Any expansion, modification or continuation of the project beyond the scope of this MoU shall be subjected to mutual agreement between the parties through a written addendum.
10. Upon installation, the plant i.e. Chloroplant and digital online chlorine analyzer shall be remained under the ownership of Mercury (International) Private Limited during the CSR period unless otherwise mutual agreed in writing. Any transfer of ownership, if contemplated shall be governed by a separate written agreement between the parties.
11. The Memorandum of Understanding shall come into effect from the date of execution and shall remain valid indefinitely unless terminated earlier by mutual consent of the parties. The operation and maintenance obligations undertaken free of cost by the company shall be governed by the specific provisions contained herein. Any extension, renewal or modification shall be made only through a written agreement signed by the parties.

12. Neither party shall be liable for any delay or failure in performance arising from events beyond its reasonable control, including but not limited to natural disasters, floods, earthquakes, fire, war, riots, governmental restrictions, strikes, pandemics or any other force majeure event.

Confidentiality

1. The parties agree that all information, documents, data, records, reports, technical know-how, designs, drawings, specifications, methodologies, business plans, financial information, CSR proposals, beneficiary details, project reports, monitoring reports, and any other information exchanged or made available by one party to the other in connection with this Memorandum of Understanding ("Confidential Information") shall be treated as strictly confidential between both parties.
2. Neither party shall disclose, publish, circulate, reproduce, distribute, or otherwise make available any confidential information to any third party without the prior written consent of the disclosing party, except where such disclosure is required by law, statutory authority, court order, government regulations, audit requirements, or CSR compliance obligation under applicable laws.
3. The receiving party shall use the confidential information solely for the purpose of implementing, monitoring, evaluating, operating and reporting activities related to the CSR project and shall taken all reasonable measures to safeguard such information from unauthorized access, disclosure, misuse or loss.

4. The confidential obligations under this agreement shall not apply to information which:

- (A) Is or becomes publicly available through no breach of this agreement;
- (B) Was lawfully known to the receiving party prior to disclosure;
- (C) Is independently developed without reference to the confidential information;
- (D) Is received from a third party without any confidentiality restriction.

5. Any breach of this confidentiality clause shall entitle the affected party to seek appropriate legal remedies, including injunctive relief, damages and any other relief available under law.

Signatures

IN WITNESS WHEREOF, the parties hereto have executed this Memorandum of Undertaking on this 20th day of July, 2026 at Lucknow University, through their duly authorized representative.

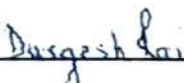
For and on behalf of University of Lucknow

Name: Prof. J.P. Saini **Designation:** Vice Chancellor

Signature:  **Date:** 20th July-2026

For and on behalf of Mercury (International) Private Limited

Name: Durgesh Rai **Designation:** Director

Signature:  **Date:** 20th July-2026

Witnesses

Witness 1

Name: Dr. Bhavana Mishra

Contact No: 7991200503

Signature: *Bhavana*

Date: 20th July-2026

Witness 2

Name: Shafiq Ahmad

Contact No: 7068880477

Signature: *Shafiq*

Date: 20th July-2026



सीएसआईआर - केन्द्रीय इलेक्ट्रॉनिकी अभियांत्रिकी अनुसंधान संस्थान

CSIR - CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE

(विज्ञान तथा प्रौद्योगिकी मंत्रालय / MINISTRY OF SCIENCE & TECHNOLOGY)

भारत सरकार / GOVT. OF INDIA

पिनानी, राजस्थान (भारत)/Pinani, Rajasthan - 333031 (INDIA)

DO Letter No. ERI-3(12)/2025/11/28-TR(M)-01.

दिनांक / Date: 28/11/2025

TEST REPORT

The Programmable Logic Controller (PLC) technology and Cloud-Based Remote Monitoring-based Automatic Bacteriological Treatment Plant installed at the CSIR-CEERI, Jaipur Campus by M/s Mercury (International) Pvt Ltd, Regd. Office 1001, Morya Blue Moon, B-57, Dalia Ind. Layout, Off New Link Road, Andheri(W), Mumbai-400053, has been tested for the automatic dosing of chemicals. The installed PLC-based system comprises the following assemblies/ elements/ components, as listed in Table 1 below

S. No	Particulars	Quantity
1	Chemical Measuring Tank (CMT) with chemical filling cap, visible level indication	01
2	A Programmable Logic Controller (PLC) powered by a microprocessor	01
3	Electronic Chemical Infusing Device (ECID)	01
4	Water Flow Sensor	01
5	Adopter of the Water Flow Sensor	01
6	pH Measuring System (for Online Comprehensive Water Analyser) with necessary fittings	01
7	TDS Metering System (for Online Comprehensive Water Analyser) with necessary fittings	01
8	Transducer for TDS & pH Metering System	01
9	Wooden Panel Board	01
10	Circuit Breaker Installed on Mounting Box	01
11	Stand for Chemical Measuring Tank	01
12	Voltage Stabilizer	01
13	Sodium Hypochlorite drinking water treatment chemical (Non-hazardous, non-explosive, packed in sealed HDPE containers)	01
14	GSM Module (for remote monitoring)	01
15	Digital Online Chlorine Analyzer	01

Table 1: Details of Components/accessories

The inspection of the PLC-based, CBR-MMS integrated automatic bacterial treatment system/plant, developed in accordance with BIS code IS:10500-2012, has been conducted to test its dosing operation, as well as the system's and cloud-based monitoring capabilities from remote locations. The system is operating at decent capacity.

Thanks & Best Regards,

Signature
Sri Krishna Vaddadi
Scientist in Charge,
CSIR-CEERI, Jaipur Campus

Disclaimer: The content of the above report is purely technical and scientific in nature, and non-legal, in nature and based on the information/facts disclosed by the client. The test report is based on his/her expertise in an area of research and not the views of CSIR-CEERI. The testing characteristics can vary significantly based on environmental and operational factors; therefore, results should be interpreted accordingly.



CPWD



भारतसरकार
केन्द्रीय लोकनिर्माणविभाग
तकनीकीअनुप्रयोग एवंमानक एकाई
कमरा सं० 418 ए-विंग, निर्माणभवन
नईदिल्ली

टेलीफोन-011-23062339 ईमेल-delsetascsq.cpwd@nic.in

F.No: JS/SE (TAS)/New Product /2018-19/ 105-HEO

Dated: 11/03/2019

CIRCULAR

Sub: Installation of PLC based centralized automatic bacteriological treatment plant with online comprehensive water analyzer for supply of bacteria free drinking water as per BIS standards vide IS: 10500-2012.

Please find enclosed herewith a proposal from M/s EXION and Mercury International Pvt. Ltd., of PLC based centralized automatic bacteriological treatment plant with online comprehensive water analyzer for supply of bacteria free drinking water as per BIS standards vide IS: 10500-2012 for information please.

Encl: As above

(P. Goyal)
Executive Engineer (TAD),
CSQ, CPWD, Nirmam Bhawan,
New Delhi- 110011

Copy to:

✓ All SDGs for necessary action please.
(Through CPWD website)

Executive Engineer (TAD).

**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
RAIL BHAWAN**

No. 00/LMB/8/7.

New Delhi, Dated: 13.6.00

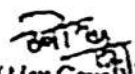
General Managers,
N.F. Railway/Guwahati,
Southern Railway/Chennai,
S.C. Railway/Secunderabad,
S.E. Railway/Calcutta,
Western Railway/Mumbai.

All Production units except DLW.

Sub:-Micro-processor controlled Automatic Bacteriological treatment Plant for supply of hygienically safe drinking water at Railway Station and residential colonies.

Micro-processor controlled Automatic Bacteriological Treatment Plant developed by M/s Mercury (International) Pvt. Ltd. New Delhi, has been in use on Central, Eastern, Northern, North East Railway and DLW. Performance report, given by various units show that system is useful.

Railway may consider using the plant on merits.


(Jay Goyal)
Director/Lead Management
Railway Board



GOA STATE URBAN DEVELOPMENT AGENCY

(A Government of Goa Undertaking)
6th Floor, Shramashakti-Bhavan, Pato-Plaza,
Panaji, Goa. Ph. No. 2437210, Tele-Fax: 2437094
www.gsuda.org Email: membersecretary@gsuda.org

No.420/3-18/GSUDA/AMRUT2.0/PROJECT PROPOSALS/2306 Dated:-31/01/2024

TO WHOM-SO-EVER IT MAY CONCERN

Based on the recommendation of the Project Consultant it is to certify that M/s Mercury (International) Pvt. Ltd., having Regd. Office at No.929, IJMIMA Complex, Mindspace, Off Link Road, Malad (W), Mumbai-600064 have successfully executed a contract vide Contract Agmt. against Tender No. 40/3/GSUDA/E-Tender/67/2022-23/2160 Dtd. 17.01.2023 for bacteriological treatment (disinfection) of Drinking Water with the installation and operation of PLC based CBR-MMS Integrated Centralized Automatic Bacteriological Treatment Plant enabled with Online Comprehensive Water Analyzer using Calfix (Grade A-Technical)/ Sodium Hypochlorite solution (conforming to IS:11673-1992), on 31.10.2023 at 50 locations in the State of Goa for a total value of Rs.7,66,05,000.00 (excluding GST @ 18%) and total gross value of Rs.9,03,93,900.00 (including GST @ 18%).

(Member Secretary, GSUDA)



NORTHERN COALFIELDS LIMITED

WORLD BANK PROJECT CELL

P.O. Singrauli Colliery

Dist: Sidhi (MP)

No. NCL/WBP/ENV/99/ 883

September 17, 1999

20

The Chief General Manager,
Dudhichua/Jayant/Thingurda/
Nigahi/Bina.

Dear Sir,

The World Bank Supervision Mission has pointed out that the residue chlorine in the drinking water supply is below detection limit, which should be at least 0.2 PPM. //

You are advised to install chlorinators in the raising main of overhead reservoir at the outlet of pumps. There are many reputed parties like Ion Exchange (India) Ltd., Bombay, Thermax Ltd., Pune and Mercury (International) Pvt. Ltd., Kanpur, etc. who can install online chlorinators to dose sodium hypochlorite liquid. The CGM (Civil) vide his letter No.CGM(C)/SGR/NCL/131/99/2085 dated 22.6.99 indicated the details regarding chlorination, which may be seen for guidance (copy enclosed).

The time schedule for installation may be intimated. Your earliest action in this regard will be appreciated.

Yours faithfully,

(S.B. Singh)
CGM(WBP/CP)
17/9/99

Copy to:

Director (Tech/Opm)
CGM (Civil), NCL.

मि. भा. म. न. पा.
पाणी पुरवठा व प्लम्बिंग विभाग
आ. क्र. १०८६ दिनांक १४/८/२३
सोपान नं. ३४३/नवि-३३



महाराष्ट्र शासन
नगर विकास विभाग

मि. भा. म. न. पा.
पाणी पुरवठा व प्लम्बिंग विभाग
आ. क्र. १३८
दिनांक १४/८/२३

४ था मंजला, मुख्य इमारत, हुतात्मा राजगुरु चौक, मंत्रालय, मुंबई - ४०० ०३२.

Email ID : gojanen.slowad@nic.in

क्रमांक :- संकीर्ण-२०२३/प्र.क्र.३४३/नवि-३३

दिनांक :- ०९ ऑगस्ट, २०२३

प्रति,

१. आयुक्त, सर्व महानगरपालिका.
२. मुख्याधिकारी, सर्व नगरपरिषद / सर्व नगरपंचायत.

विषय :- PLC based, CBR-MMS Integrated Centralized Automatic Bacteriological Treatment Plant with Online Comprehensive Analyzer At Pump House For Treatment of Water हे तंत्रज्ञान वापरण्याबाबत.

सदर अतिर्निर्णय (पा.४.)

महोदय,
महानगरपालिका

राज्यातील नागरी भागातील पिण्याच्या पाण्याच्या दर्जामध्ये सुधारणा करण्यासाठी PLC Based, CBR-MMS Integrated Centralized Automatic Bacteriological Treatment Plant With Online Comprehensive Analyzer At Pump Houses For Treatment of Water As Per BIS Standards Vide IS : १०५००-२०१२ ह्या तंत्रज्ञानाबद्दलची संक्षिप्त माहिती खालिलप्रमाणे आहे :

"This is a technologically advanced system integrated with Cloud Based Remote Monitoring & Management System (CBR-MMS) feature that enables the use to remotely monitor the operation and performance of the plant and have real time data available २४/७ on mobile / tablet / PC at any location. It is based on cutting-edge cloud based IoT platform that allows the desired data to be monitored and managed remotely. This feature allows the user to have multiple levels of controls that can be accessed through ID and password from any location, world-wide."

"Sodium Hypochlorite based chemical which is recommended for disinfection of Drinking water vide IS : ११६७३-१९९२. It is a highly potent disinfectant to inactivate the enzymes in the cells of microorganisms causing water borne diseases. The said chemical has lot of technical & practical advantages over the use of Bleaching powder and chlorine gas in terms of human safety, residue, handling & forwarding etc."

"सदर तंत्रज्ञानाची उपयुक्तता लक्षात घेऊन राज्यातील सर्व नागरी स्थानिक स्वराज्य संस्थांनी विहित प्रक्रियेद्वारे सदर तंत्रज्ञानाचा अवलंब करण्याच्या दृष्टीने कार्यवाही करावी व सदर तंत्रज्ञानाकरिता येणारा खर्च संबंधित प्रकल्पाच्या देखभाल दुरुस्ती खर्चापधून अथवा स्व निधीमधून करावा."

आपला,

१. ८. २०२३
(गजानन आलेवार)
कक्ष अधिकारी, महाराष्ट्र शासन

१४.०८.२०२३
२३/११/२०२३

प्रति,

आयुक्त तथा संचालक, नगर परिषद प्रशासन संचालनालय, नवी मुंबई.

Telephone 22150755

Military Engineer Services
Headquarters
Chief Engineer(Navy)
26 Assaye Building
Colaba Mumbai - 400 005

40010/4/ 133 /E4

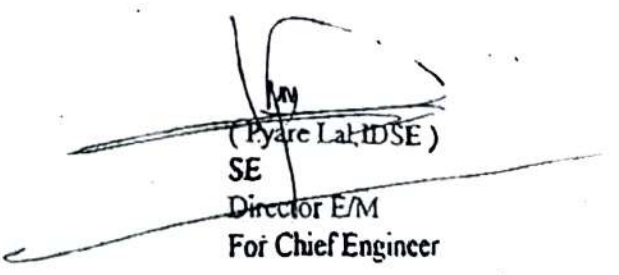
08 Mar 2005

CWE (NW) Mumbai
CWE (P) NW Mumbai
CWE (Subs) Mumbai - 78
CWE (NW) Karanja
CWE (Navy) Goa
GE (I) Navy Porbandar

WATER TREATMENT

1. It is intimated M/s Mercury International Pvt Ltd offers, supply, installation & Commissioning in programmable logic controller (P.L.C) based technology for automatic bacteriological water treatment plant 'EXION' make. The firm also delivers water treatment chemical, which is used in above plants.
2. The said plant has been installed at number of Govt as well as public undertakings installations. The maintenance is also under taken by the firm as annual maintenance contract.
3. Technical details of the plant are enclosed for ready reference.
4. In view of above you are requested to carry out trial of the above plant in your area and submit the performance report.
5. The above firm may be contacted at following address: -

Pradeep Pandey
M/s Mercury International Pvt Ltd
B-305, TULIP,
Valley of Flowers, Thakur Village,
Kandivali (E), Mumbai - 400 101
Phone : 022 30978466, Mobile : 09322217608


(Pyare Lal DSE)
SE
Director E/M
For Chief Engineer

स्टील अथॉरिटी ऑफ इण्डिया लि०

रौ मेटिरियल्स डिवीजन

काल्टा आयरन माइन



STEEL AUTHORITY OF INDIA LTD.,

RAW MATERIALS DIVISION
KALTA IRON MINE
P. O. KALTA - 770 052
Dist. Sundergarh (ORISSA)

To Whom It May Concern

This is to certify that the work of **Supply, installation and commissioning of Exion Pressure filtration Plant and Automatic Bacteriological treatment Plant** has been successfully executed by **M/s Mercury(International)Pvt. Ltd.** at SAIL, RMD, Kalta Iron Mine on dated **30.06.05.**

The plant is performing **satisfactorily** as per specification.


(K.B. Thapa)
Manager (c)
KALTA IRON MINE
Kalta Iron Mines
SAIL RMD.

Head. Office : 5th & 6th Floor, Industry House, 10 Camac Street, Kolkata-700017
Regd. Office : Ipat Bhawan, Lodi Road, New Delhi - 110003 P.B.-3049.

ता॥ भारत इलेक्ट्रिक
Grams BHARATELEC
Telex BHEL IN 0326 -206
FAX 0517- 443108
Phone 440944, 440615
440240, 441850
(3 Lines)

भारत हेवी इलेक्ट्रिकल्स लिमिटेड BHARAT HEAVY ELECTRICALS LIMITED

(भारत सरकार का उपक्रम)
डाकघर पाले इ. लि., झांसी - 284129

(A Government of India undertaking)
P. O. BHEL, JHANSI - 284129

हमारा संदर्भ

Our Ref. : 7A/WS/03/00-01

दिनांक

Dated



TO WHOM SO EVER IT MAY CONCERN

This is to certify that M/s Mercury (International) Pvt. Ltd. 2A/244-4A, Azad Nagar, Kanpur have installed and commissioned a package of Exion Water Management System comprising of Pressure Filtration Plant and Automatic Chlorinating Plant with microprocessor based programmable logic controller at Pump house No.3 of the Township for the treatment of drinking water.

The performance of said plants has been tested by us for the turbidity and residual chlorine at consumer-end and found satisfactory as per the recommended parameters of Bureau of Indian Standards, Govt. of India, vide code "DRINKING WATER-SPECIFICATIONS" (IS:10500-1991).

[Signature]
14/3/2000
(J.S. Javeria)
Sr. Dy. General Manager (T.A.)



राष्ट्रीय रासायनिक प्रयोगशाला (बैज्ञानिक तथा औद्योगिक अनुसंधान परिषद) पुणे - 411 008

NATIONAL CHEMICAL LABORATORY (COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH) PUNE, 411 008, INDIA

टेलीफोन 91-020-5893315-18 टार: केमिस्ट्री टेलिफोन 0145-7264 फॅक्स 91-020-5893355 (2-नेस)
TELEPHONE 91-020-5893300 GRAM: CHEMISTRY TELUX 0145-7653 FAX: 91-020-5893761 E-MAIL: tech@ncl.res.in
91-020-5893619
91-020-5893712

30th January, 2004

CERTIFICATE

This is to certify that M/s. Mercury (International) Pvt. Ltd., Pune had installed and commissioned Exion Fully Automatic Proportionate Dosing Chlorination Plants incorporated with Microprocessor based programmable controller at NCL Colony Pump House and NCL Laboratory Pump House for chlorination of drinking water supplies vide Agreement No.53(914)/CE/99 dated 7.7.2000.

The said pumps are running regularly and effectively, to till date, to provide drinking water as per ISI standards. The maintenance services provided by the firm are also satisfactory.


(A.V. Mahajan)
Tech. Officer (Civil)



ठाणे महानगरपालिका

महानगरपालिका ध्वज, मध्यमार्गी प्रवेशद्वार वरुन मार्ग, पाचपाड्याही, ठाणे - ४०० १०३

THE MUNICIPAL CORPORATION OF THE CITY OF THANE

Ref. No. ठामपा/पा.पु/न.अ / ७८८.

Date: 20/7/23

कार्यादेश

प्रति,

न.म.सु.गं इंटरनॅशनल प्रा. लि.,

ईजमा कॉम्प्लेक्स, माइंडस्पेस,

ऑफ लिक रोड, मालाड (वेस्ट),

मुंबई, कलिनो. ४०००६४.

विषय:- ठाणे महानगरपालिकेच्या विविध ठिकाणच्या वितरण क्षेत्रात पिण्याच्या पाण्याचे निजंतुकीकरण करण्यासाठी PLC Based, (BR-MMS आधारित स्वयंचालित वॅक्टरियोलॉजिकल ट्रीटमेंट प्लांट पुरवठा करणारे गमायनाचे डारमिंग करणे.

संदर्भ:- १) मा.आयुक्त सां. यांचा दि.०१/१२/२०२३ रोजीचा मान्यता

२) ठाणे महानगरपालिका मा.महासभा ठराव क्र. २५३ दि.२६/०९/२०२३.

३) ठाणे महानगरपालिका मा.स्थायी समितीचा ठराव क्र.७७० दि.०८/१२/२०२३

४) सुचनापत्र ठामपा/पापु/काअ/८५४ दि.०१.१२.२०२३.

वरील विषयांकांत कामी आपण सादर केलेली निविदा रक्कम रु.४.१४.८१.४६०/- अधिक जी.एस.टी रु.७४.५९.४६३/- असं एकूण रु.४.८९.००.९२३/- (रुपये चार कोटी एकांनव्वद नाख नऊशे तेव्हीस) मात्रच्या रक्कमस मा.आयुक्त सां. यांना संदर्भ क्र.१ नुसार मंजूरी येऊन संदर्भ क्र. ३ नुसार मा.स्थायी समितीचा ठराव मंजूर करण्यात आला आहे.

सदर कामी संदर्भ क्र.०४ च्या सुचनापत्रानुसार आपण करारनामा सादर केला असून या पत्रान्वये आपणांस रितसर कार्यादेश देण्यात येत आहे. सदर कामाची मुदत एक वर्षाची असून सदरची मुदत कार्यादेशाच्या दिनांकापासून गृहीत धरण्यात येईल. सदरचे काम मुदतात पूर्ण न केल्यास निविदा अटी व शर्तीप्रमाणे प्रति दिन रु.१०००/- दंड आकारण्यात येईल. याची कृपया नोंद घ्यावी.

(प्रशांत सेनापती)

नगर अभियंता

ठाणे महानगरपालिका, ठाणे