

**CITY AND INDUSTRIAL DEVELOPMENT CORPORATION OF MAHARASHTRA LIMITED**

(CIN - U99999 MH 1970 SGC - 014574)

**REGD. OFFICE:**

"NIRMAL", 2nd Floor, Nariman Point,  
Mumbai - 400 021.  
PHONE : 00-91-22-6650 0900  
FAX : 00-91-22-2202 2509

**HEAD OFFICE:**

CIDCO Bhavan, CBD Belapur,  
Navi Mumbai - 400 614.  
PHONE: 00-91-22-6791 8100  
FAX : 00-91-22-6791 8166

**Ref. No.** CIDCO/SE (HSG-I & NT)/2022/

**Date** 1<sup>st</sup> December 2022

**To,**  
**The Additional Director(s),**  
**Regional Office (WCZ),**  
**Ministry of Environment,**  
**Forest & Climate Change,**  
**Ground floor, East Wing,**  
**New Secretariate Building,**  
**Civil Lines, Nagpur - 440001,**  
**Maharashtra**

**Sub:** Submission of Environmental Clearance six monthly compliance for PMAY Housing project at Plot No. 01 & 02 of Sector-50 & 52 adjacent to Khandeshwar Railway Station (Creek side), Kamothe Node, Taluka-Panvel & District - Raigad, by CIDCO.

**Ref:** EC granted letter no. SIA/MH/MIS/53187/2020 granted date - 08.07.2020

Respected Sir,

With reference to the above subject, we are submitting the current status of our construction work, monitoring reports, data sheet and point wise environmental clearance compliance status to various stipulations laid down by the Ministry of Environment and Forest in its EC granted letter no. SIA/MH/MIS/53187/2020 granted date - 08.07.2020 for period June 2022 to November 2022, along with the necessary enclosure and annexure.

This is for your kind consideration and records. Kindly acknowledge the same.

Thanking you,

**Yours Sincerely,**



Superintending Engineer (HSG-I & NT)  
CIDCO Ltd., 6<sup>th</sup> Floor, CIDCO Bhavan,  
CBD Belapur - 400 614.  
(Project Proponent)

**CITY AND INDUSTRIAL DEVELOPMENT CORPORATION OF MAHARASHTRA LIMITED**

(CIN - U99999 MH 1970 SGC - 014574)

**REGD. OFFICE:**

"NIRMAL", 2nd Floor, Nariman Point,  
Mumbai - 400 021.  
PHONE : 00-91-22-6650 0900  
FAX : 00-91-22-2202 2509

**HEAD OFFICE:**

CIDCO Bhavan, CBD Belapur,  
Navi Mumbai - 400 614.  
PHONE: 00-91-22-6791 8100  
FAX : 00-91-22-6791 8166

**Ref. No.**

CIDCO/SE (HSG-I &amp; NT)/2020/

**Date :**1<sup>st</sup> December 2022**To,**

**The Member Secretary SEIAA,  
Environment Department,  
Room No.217, 2<sup>nd</sup> floor,  
Mantralay, Annexe  
Mumbai 400032**

Sub: Submission of Environmental Clearance six monthly compliance for PMAY Housing project at Plot No. 01 & 02 of Sector-50 & 52 adjacent to Khandeshwar Railway Station (Creek side), Kamothe Node, Taluka-Panvel & District – Raigad, by CIDCO.

Ref: EC granted letter no. SIA/MH/MIS/53187/2020 granted date – 08.07.2020

**Respected Sir,**

With reference to the above subject, we are submitting the current status of our construction work, monitoring reports, data sheet and point wise environmental clearance compliance status to various stipulations laid down by the Ministry of Environment and Forest in its EC granted letter no. SIA/MH/MIS/53187/2020 granted date – 08.07.2020 for period June 2022 to November 2022, along with the necessary enclosure and annexure.

This is for your kind consideration and records. Kindly acknowledge the same.

Thanking you,

**Yours Sincerely,**

Superintending Engineer (HSG-I & NT)  
CIDCO Ltd., 6<sup>th</sup> Floor, CIDCO Bhavan,  
CBD Belapur – 400 614.  
(Project Proponent)

**CITY AND INDUSTRIAL DEVELOPMENT CORPORATION OF MAHARASHTRA LIMITED**

(CIN - U99999 MH 1970 SGC - 014574)

**REGD. OFFICE:**

"NIRMAL", 2nd Floor, Nariman Point,  
Mumbai - 400 021.

PHONE : 00-91-22-6650 0900

FAX : 00-91-22-2202 2509

**HEAD OFFICE:**

CIDCO Bhavan, CBD Belapur,  
Navi Mumbai - 400 614.

PHONE: 00-91-22-6791 8100

FAX : 00-91-22-6791 8166

**Ref. No.**

CIDCO/SE (HSG-I &amp; NT/2022/

**Date :**1<sup>st</sup> December 2022

To,

**The Regional Officer**  
**Maharashtra Pollution Control Board,**  
**Raigad Bhavan, 7<sup>th</sup> floor, Sector-11,**  
**C.B.D Belapur, Navi Mumbai**

Sub: Submission of Environmental Clearance six monthly compliance for PMAY Housing project at  
Plot No. 01 & 02 of Sector-50 & 52 adjacent to Khandeshwar Railway Station (Creek side),  
Kamothe Node, Taluka-Panvel & District – Raigad, by CIDCO.

Ref: EC granted letter no. SIA/MH/MIS/53187/2020 granted date – 08.07.2020

Respected Sir,

With reference to the above subject, we are submitting the current status of our construction work, monitoring reports, data sheet and point wise environmental clearance compliance status to various stipulations laid down by the Ministry of Environment and Forest in its EC granted letter no. SIA/MH/MIS/53187/2020 granted date – 08.07.2020 for period June 2022 to November 2022, along with the necessary enclosure and annexure.

This is for your kind consideration and records. Kindly acknowledge the same.

Thanking you,

Yours Sincerely,



Superintending Engineer (HSG-I & NT)  
CIDCO Ltd., 6<sup>th</sup> Floor, CIDCO Bhavan,  
CBD Belapur – 400 614.  
(Project Proponent)

# **SIX MONTHLY COMPLIANCE REPORT**

**For**

**Period June 2022 to November 2022**

Submission of Environmental Clearance six monthly  
compliance for CONSTRUCTION OF  
AFFORDABLE HOUSING UNDER PMAY  
SCHEME at Plot no. 1 and 2 sector 50 and 52 at  
Kamothe, Navi Mumbai (Khandeshwar Creek Side)  
by CIDCO

**Submitted by-**

**Superintending Engineer (Hsg-I )**

CIDCO of Maharashtra Ltd,

6<sup>th</sup> Floor, CIDCO Bhavan,

CDB Belapur, Navi Mumbai- 400614

**December  
2022**

| Sr No | Item Description                                 | Page No |
|-------|--------------------------------------------------|---------|
| 1     | <b>PART A</b>                                    |         |
|       | Current Status of Work .....                     | 1       |
| 2     | <b>PART B</b>                                    |         |
|       | Point wise completion Status .....               | 2       |
| 3     | <b>PART C</b>                                    |         |
|       | <b>Enclosure I</b>                               |         |
|       | <b>Part I</b>                                    |         |
|       | Data Sheet .....                                 | 11      |
|       | Part I .....                                     | 14      |
|       | Part II .....                                    | 15      |
|       | Part III .....                                   | 25      |
|       | <b>Enclosure II</b>                              |         |
|       | Copy of Environmental Clearance .....            | 27      |
|       | <b>Enclosure III</b>                             |         |
|       | Consent To Establish.....                        | 33      |
| 4     | <b>PART D</b>                                    |         |
|       | <b>Annexure 1</b>                                |         |
|       | CER Plan .....                                   | 45      |
|       | <b>Annexure 2</b>                                |         |
|       | Sanitary and Hygiene Measures .....              | 48      |
|       | <b>Annexure 3</b>                                |         |
|       | Environment Monitoring Reports .....             | 49      |
|       | <b>Annexure 4</b>                                |         |
|       | Advertisement in Local News Paper .....          | 54      |
|       | <b>Annexure 5</b>                                |         |
|       | EC copy submission to Local Authority & NGO..... | 57      |

# **PART A**

CURRENT STATUS OF WORK

## CURRENT STATUS OF WORK – June 2022 to Nov. 2022

**Current Status of the project: PMAY CIDCO PK ||| construction project at KDEX-25, near Khandeshwar railway station, Navi Mumbai.**

| <b>Sr. No.</b> | <b>No. of Buildings</b> | <b>Status</b>                                                                                                                                                                                                      | <b>Status of the Environmental Management Facilities</b> |
|----------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <b>1</b>       | <b>Building No-01</b>   | 1. 2nd floor slab casting work is in progress<br>2. 3rd slab reinforcement & shuttering work is in progress<br>3. 3rd Floor Slab work is in progress<br>4. 4th slab shuttering & reinforcement work is in progress |                                                          |
| <b>2</b>       | <b>Building No-02</b>   | No work                                                                                                                                                                                                            |                                                          |
| <b>3</b>       | <b>Building No-03</b>   | 1. 2nd Floor Slab casting work is in progress<br>2. 3rd Slab reinforcement & shuttering<br>3. 3rd Floor Slab casting work is in progress<br>4. 4th slab reinforcement & shuttering                                 |                                                          |
| <b>4</b>       | <b>Building No-04</b>   | No work                                                                                                                                                                                                            |                                                          |
| <b>5</b>       | <b>Building No-05</b>   | 1. First floor slab work is in progress<br>2. 2nd floor Slab reinforcement and shuttering work is in progress                                                                                                      |                                                          |
| <b>6</b>       | <b>Building No-06</b>   | No work                                                                                                                                                                                                            |                                                          |
| <b>7</b>       | <b>Building No-07</b>   | 1. 1st floor slab Casting work is in progress                                                                                                                                                                      |                                                          |
| <b>8</b>       | <b>Building No-08</b>   | No work                                                                                                                                                                                                            |                                                          |
| <b>9</b>       | <b>Building No-09</b>   | 1. Column Stilt floor work is in progress                                                                                                                                                                          |                                                          |
| <b>10</b>      | <b>Building No-10</b>   | No work                                                                                                                                                                                                            |                                                          |
| <b>11</b>      | <b>Building No-32</b>   | 1. Plinth beam work is in progress                                                                                                                                                                                 |                                                          |
| <b>12</b>      | <b>Building No-33</b>   | 1. Stilt Floor Column work is in progress                                                                                                                                                                          |                                                          |
| <b>13</b>      | <b>Building No-34</b>   | No work                                                                                                                                                                                                            |                                                          |

|           |                          |                                            |  |
|-----------|--------------------------|--------------------------------------------|--|
| <b>14</b> | <b>Building No-35</b>    | 1st floor slab casting work is in progress |  |
| <b>15</b> | <b>Building No-35</b>    | No work                                    |  |
| <b>16</b> | <b>Receiving station</b> | Strata Approval work is in progress        |  |

# **PART B**

POINT WISE COMPLIANCE STATUS

**CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME at Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO**

**PART- B**

Pointwise compliance status to various stipulations laid down by the ministry in its environment clearance letter No. SIA/MH/MIS/53187/2020 granted date - 08.07.2020.

| Sr. No.                     | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Status                                                                                         |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>Specific Conditions:</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                |
| i.                          | PP to adopt following segregation & treatment method for the sewage generated from the residential complex.<br><b>a.</b> Grey water: - The waste water emanating from bathroom, kitchen sinks, wash basins, showers, dish washers should be collected separately and treated on site suitably to a level for reuse for flushing of toilets in apartment buildings and gardening.<br><b>b.</b> Black Water:- The waste water remaining from Flushing of toilets shall be collected separately and conveyed through sewer to the nodal STP for treatment and reuse for central garden, Golf course etc. | Noted & will be adhered.                                                                       |
| ii.                         | PP to adopt water conservation measures by providing Low Flow Devices (LFD) as plumbing fixtures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | We will provide Low Flow Devices (LFD) in plumbing fixtures to adoption of water conservation. |
| III.                        | PP to ensure that the energy savings from renewable sources shall be minimum 5.84%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Noted & will be adhered.                                                                       |
| iv.                         | No Occupation Certificate (OC) to be granted to the project unless the raw water supply is assured from Hetwane dam.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Noted & will be adhered.                                                                       |
| v.                          | PP to obtain CRZ clearance from MCZMA and comply all the conditions stipulated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Not Applicable.                                                                                |
| vi.                         | As committed during presentation the green area proposed which is part of CRZ area shall remain intact and green zone only and no further development will be allowed as it is part of the layout of this project. PP to submit an Undertaking to that effect.                                                                                                                                                                                                                                                                                                                                        | Noted & complied.                                                                              |
| vii.                        | PP to abide all conditions of NOCs granted by the different authorities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Noted & will be adhered.                                                                       |
| viii.                       | PP to explore to provide left Over CRZ area to be converted into green area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Noted & will be adhered.                                                                       |
| ix.                         | PP to follow all conditions prescribed by MSETCL for shifting of high-tension Line, underground. PP to ensure that no building or any construction work is undertaken                                                                                                                                                                                                                                                                                                                                                                                                                                 | Noted & will be adhered.                                                                       |

**CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME at Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO**

| Sr. No.                           | Condition                                                                                                                                                                                                                                                                               | Status                                                                                                          |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
|                                   | within the safety distances prescribed by MSETCL                                                                                                                                                                                                                                        |                                                                                                                 |
| x.                                | PP to calculate the reduction in potable water consumption due to provision of grey water Treatment plant at site. The same shall be implemented.                                                                                                                                       | Noted                                                                                                           |
| ix.                               | The PP to get NOC from competent authority with reference to Thane creek flamingo sanctuary since the project site falls within 10 Km radius from the said sanctuary boundary. The planning authority to ensure fulfilment of this condition before granting Commencement Certificates. | Not Applicable.                                                                                                 |
| x.                                | PP to submit CER prescribed by MoEF & CC circular dated 1.5.2018 relevant to the area and people around the project. The specific activities to be undertaken under CER to be carried out in consultation with Municipal Corporation or collector or Environment Department             | Noted and will be adhered.                                                                                      |
| xi.                               | PP to ensure that CER plan gets approved from Municipal Commissioner.                                                                                                                                                                                                                   | Noted & CER plan has been sent to Collector, Raigad 21.07.2020 & attached in <b>Annexure-1</b>                  |
| xii.                              | PP Shall comply with Standard EC conditions mentioned in the Office Memorandum issued by MoEF& CC vide F.No.22-34/2018-IA.III dt.04.01.2019.                                                                                                                                            | Noted & as per the Tree NOC at <b>Annexure- 2.</b>                                                              |
| xiii.                             | SEIAA decided to grant FC for-FS1: 106397.147 m2. Non-FS1. 75454,964 m2 and Total BUA: 18185211 m2 (Plan Approval no- CIDCO/SR ARCH/BP-HP)2209-4331-211 dated 25.02.2020                                                                                                                | Noted.                                                                                                          |
| <b><u>General Conditions:</u></b> |                                                                                                                                                                                                                                                                                         |                                                                                                                 |
| i.                                | E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016.                                                                                                                                                                               | Noted & will be adhered.                                                                                        |
| ii.                               | The Occupancy certificate shall be issued by the Local Planning Authority to the project only after ensuring sustained availability of drinking water and connectivity of the sewer line to the project site and proper disposal of treated water as per environment norms.             | Noted & will be adhered.                                                                                        |
| iii.                              | This environmental clearance is issued subject to obtaining NOC from Forestry & Wildlife angle including clearance from the                                                                                                                                                             | This PMAY Housing site is located outside the boundary of environmentally sensitive area. Hence not Applicable. |

**CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME at Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO**

| Sr. No. | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                       | Status                                                                                                                                                                                                |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | standing committee of the National Board for Wildlife as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.                                                                                                                                                                                                       |                                                                                                                                                                                                       |
| iv.     | PP has to abide by the conditions stipulated by SEAC & SEIAA.                                                                                                                                                                                                                                                                                                                                                                                   | We observe strict compliance of conditions stipulated by SEAC & SEIAA.                                                                                                                                |
| v.      | The height, Construction built up area of proposed construction shall be in accordance with the existing FSI/FAR norms of the urban local body & it should ensure the same along with survey number before approving layout plan & before according commencement certificate to proposed work. Plan approving authority should also ensure the zoning permissibility for the proposed project as per the approved development plan of the area. | Noted and adhered.                                                                                                                                                                                    |
| vi.     | If applicable "Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.                                                                                                                                                                                                     | Noted. We have obtained consent to Establish vide No. Format 1.0/CAC CELL/UAN No. 0000098384 /CE - 2102000392, Dated on 05.02.2021. Attached in Enclosure - III                                       |
| vii.    | All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.                                                                                                                                                                                                                                                                                  | Yes noted. We have provided sanitary and hygienic measures on the project site before starting the construction activity. Attached in Annexure- 3                                                     |
| viii.   | Adequate drinking water and sanitary facilities should be provided for Construction workers at the site.also mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.                                                                                                                                                                                                        | Drinking water is made available through Local authority for construction workers. Solid waste generated and disposed of through local authority garbage collection vehicle. Attached in Annexure - 4 |
| ix.     | The solid waste generated should be properly collected and segregated. dry/ inert solid waste should be disposed of to the approved sites for land filling after recovering recyclable material.                                                                                                                                                                                                                                                | Noted & will be adhered.                                                                                                                                                                              |
| x.      | Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people,                                                                                                                                                                                                                               | Noted & will be adhered.                                                                                                                                                                              |

**CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME at Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO**

| Sr. No. | Condition                                                                                                                                                                                                                                 | Status                                                                                                                                                                        |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | only in approved sites with the approval of competent authority.                                                                                                                                                                          |                                                                                                                                                                               |
| xi.     | Arrangement shall be made that waste water and storm water do not get mixed.                                                                                                                                                              | We will take care and make arrangements for the same.                                                                                                                         |
| xii.    | All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.                                                                                        | Noted & will be adhered.                                                                                                                                                      |
| xiii.   | Additional soil for levelling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.                                                    | Noted and will be adhered.                                                                                                                                                    |
| xiv.    | Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.                                                                    | We will follow the CPCB norms for Green Belt Development.                                                                                                                     |
| xv.     | Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.                                                                       | Complied. Analysis report is attached as Annexure-4                                                                                                                           |
| xvi.    | Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the ground water. | The Construction spoils are stored separately. No hazardous materials at site.                                                                                                |
| xvii.   | Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.                                                     | No hazardous waste at site.                                                                                                                                                   |
| xviii.  | The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards.                                   | Good quality DG set are installed on construction site confirming to Environment (Protection) rules prescribed for air and noise emission standards.                          |
| xix.    | The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.                                                                                          | Noted and will be adhered.                                                                                                                                                    |
| xx.     | Vehicles hired for bringing construction material to the site should be in good condition. and should have a pollution check certificate and should conform to applicable                                                                 | The hired vehicle for the transportation of material are in good condition and have a pollution check certificate and conforms to applicable air and noise emission standards |

**CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME at Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO**

| Sr. No. | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Status                                                                                                                                                            |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | air and noise emission standards and should be operated only during non-peak hours.                                                                                                                                                                                                                                                                                                                                                                                                        | and are operated only during non-peak hours.                                                                                                                      |
| xxi.    | Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/MPCB.                                                                                                               | The noise level as well as air pollution is monitored regularly from MoEF/NABL recognized laboratory. Air & noise monitoring reports are attached in Annexure- 4. |
| xxii.   | Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27th August. 2003. (The above condition is applicable only if the project site is located within the 100Km of Thermal Power Stations)                                                                                                                                                                                                    | Noted and fly ash is being used in concrete work.                                                                                                                 |
| xxiii.  | Ready mixed concrete must be used in building construction.                                                                                                                                                                                                                                                                                                                                                                                                                                | Noted and will be adhered.<br>Dedicated ready mixed concrete batching plant is established for the project                                                        |
| xxiv.   | Storm water control and its re-use as per CGWB and BIS standards for various applications                                                                                                                                                                                                                                                                                                                                                                                                  | Noted and will be adhered.                                                                                                                                        |
| xxv.    | Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices.                                                                                                                                                                                                                                                                                                                                                                   | We are using premixed concrete to reduce the use of water                                                                                                         |
| xxvi.   | The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.                                                                                                                                                                                                                                                                                                                                                                          | No ground water is being used for construction.                                                                                                                   |
| xxvii.  | The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the MPCB and Environment department before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled/refused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Necessary measures should be made to mitigate the odour problem from STP. | As per EC condition, the sewer line of the project will be connected to nodal sewer network which is connected to Nodal STP of CIDCO at Kamothe Node.             |
| xxviii. | Permission to draw ground water and construction of basement if any shall be                                                                                                                                                                                                                                                                                                                                                                                                               | We do not use ground water for any construction or drinking purposes. There is no basement construction.                                                          |

**CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME at Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO**

| Sr. No. | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Status                                                                                                    |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|         | obtained from the competent Authority prior to construction/operation of the project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                           |
| XXIX.   | Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes. We have proposed dual plumbing line for separation of grey and black water                           |
| XXX.    | Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor-based control.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Low Flow water efficient fixtures will be used.                                                           |
| XXXI.   | Use of glass may be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary. use high quality double glass with special reflective coating in windows.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Noted and will be adhered                                                                                 |
| XXXII.  | Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Noted and will be adhered                                                                                 |
| XXXIII. | Energy conservation measures like installation of CFLs /TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed of /sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible like installing solar street lights, common solar water heaters system. Project proponent should install, after checking feasibility, solar plus hybrid non-conventional energy source as source of energy. | Noted. The energy conservation measures of the project are in confirmation of the ECBC-2006 and NBC 2005. |
| XXXIV.  | Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.                                                                                                                                                                            | Noted and will be adhered.                                                                                |

**CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME at Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO**

| Sr. No.  | Condition                                                                                                                                                                                                                                                                                                                                                                                                                            | Status                                                                                                                                             |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| XXXV.    | Noise should be controlled to ensure that it does not exceed the prescribed standards. During night-time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.                                                                                                                                                                           | The noise level as well as air pollution is monitored regularly from MoEF/NABL recognized laboratory. Air & noise monitoring reports are enclosed. |
| XXXVI.   | Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.                                                                                                                                                                                                                                   | There is no traffic congestion near the entry and exit points from the roads. Parking is fully internalized and no public space is being utilized. |
| XXXVII.  | Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, which is proposed to be mandatory for all air-conditioned spaces while it is aspiration for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfil requirement                                                                                                                                            | Noted and adhered                                                                                                                                  |
| XXXVIII. | The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation                                                                                                                                                                                                                                                                                             | Noted and adhered                                                                                                                                  |
| XXXIX.   | Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.                                                                                                                                                                                                                                                            | It is being followed.                                                                                                                              |
| XL.      | Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.                                                                                                                                                                                               | We have obtained environment clearance & copy is attached in Enclosure- II.                                                                        |
| XLI.     | Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.                                                                                                                                                                                                                                                                                                        | Complied. EC compliance report enclosed herewith.                                                                                                  |
| XLII.    | Project proponent shall ensure completion of STP, MSW disposal facility, green belt development prior to occupation of the buildings. As agreed during the SEIAA meeting, PP to explore possibility of utilizing excess treated water in the adjacent area for gardening before discharging it into sewer line No physical occupation or allotment will be given unless all above said environmental infrastructure is installed and | Allotment/occupation will be given after installation of environment infrastructure & certification from appropriate authority.                    |

**CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME at Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO**

| Sr. No. | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Status                                                                                                                                                           |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | made functional including water requirement.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                  |
| XLIII.  | Wet garbage should be treated by Organic Waste Converter and treated waste (manure) should be utilized in the existing premises for gardening. And, no wet garbage will be disposed outside the premises. Local authority should ensure this                                                                                                                                                                                                                                                              | Yes, we have proposed Organic Waste Converter for composting of wet garbage. The treated waste (manure) will be utilized in the existing premises for gardening. |
| XLIV.   | Local body should ensure that no occupation certification is issued prior to operation of STP/MSW site etc. with due permission of MPCB                                                                                                                                                                                                                                                                                                                                                                   | As per EC condition, the sewer line of the project will be connected to nodal sewer network which is connected to Nodal STP of CIDCO at Kamothe Node             |
| XLV.    | A complete set of all the documents submitted to Department should be forwarded to the Local authority and MPCB                                                                                                                                                                                                                                                                                                                                                                                           | Noted and will be adhered.                                                                                                                                       |
| XLVI.   | In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by tins Department.                                                                                                                                                                                                                                                                                                                                                                                 | Noted and will be adhered.                                                                                                                                       |
| XLVII.  | A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.                                                                                                                                                                                                                                                                                                                                                                | Noted & will be adhered.                                                                                                                                         |
| XLVIII. | Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. This cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year- wise expenditure should be reported to MPCB & this department                                                                                                                                       | Separate funds are allocated for implementation of EMP during construction phase and Operation phase. Find attached EMP report in Part-II                        |
| XLIX.   | The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <a href="http://parivesh.nic.in">http://parivesh.nic.in</a> | Noted & adhered. Attached in Annexure-5                                                                                                                          |
| L.      | Project management should submit half yearly compliance reports in respect of the                                                                                                                                                                                                                                                                                                                                                                                                                         | Complied.                                                                                                                                                        |

**CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME at Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO**

| Sr. No. | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Status                                                                           |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|         | stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                  |
| LI.     | A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent                                                                                                                                                                                                                                                                                                 | Complied. Attached in Annexure 6                                                 |
| LII.    | The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sector parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain. | Noted & will be adhered. Environment monitoring report is Attached in Annexure-4 |
| LIII.   | The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and SPCB                                                                                                                                                                                                                                                                                                                | Complied. EC compliance report enclosed herewith.                                |
| LIV.    | The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.                                                                                                                                               | Noted and will be complied.                                                      |

## PART C

| ENCLOSURE NO. | ENCLOSURES                                   |
|---------------|----------------------------------------------|
| Enclosure 1   | Data Sheet in Format with Part-I,<br>Part-II |
| Enclosure 2   | Environmental Clearance Copy                 |
| Enclosure 3   | A copy of Consent to Establish               |

**CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME at Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO**

Ministry of Environment & Forest  
Western Region, Regional Office, Nagpur.

**PART – I**

**DATA SHEET**

|           |                                                                                                                                                                                                                       |          |                                                                                                                             |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>1.</b> | <b>Project type: River - valley/ Mining / Industry / Thermal / Nuclear / Other (specify)</b>                                                                                                                          | <b>:</b> | <b>"Construction Of Affordable Housing Under PMAY Scheme"</b>                                                               |
| <b>2.</b> | <b>Name of the project</b>                                                                                                                                                                                            | <b>:</b> | <b>"Construction Of Affordable Housing Under PMAY Scheme"</b>                                                               |
| <b>3.</b> | <b>Clearance letter ( s ) / OM No. and Date</b>                                                                                                                                                                       | <b>:</b> | Environmental clearance has been obtained from the MoEF as vide their ref. SIA/MH/MIS/53187/2020 granted date - 08.07.2020. |
| <b>4.</b> | <b>Location</b>                                                                                                                                                                                                       | <b>:</b> |                                                                                                                             |
|           | <b>a. District ( S )</b>                                                                                                                                                                                              | <b>:</b> | Raigad                                                                                                                      |
|           | <b>b. State ( s )</b>                                                                                                                                                                                                 | <b>:</b> | Maharashtra                                                                                                                 |
|           | <b>c. Latitude/ Longitude</b>                                                                                                                                                                                         | <b>:</b> | 19° 0'17.71"N<br>73° 5'53.43"E                                                                                              |
| <b>5.</b> | <b>Address for correspondence</b>                                                                                                                                                                                     |          |                                                                                                                             |
|           | <b>a. Address of Concerned Project Chief Engineer (with pin code &amp; Telephone / telex / fax numbers)</b>                                                                                                           | <b>:</b> | CIDCO Ltd. Of Maharashtra<br>Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO    |
| <b>6.</b> | <b>Salient features</b>                                                                                                                                                                                               |          |                                                                                                                             |
|           | <b>a. of the project</b>                                                                                                                                                                                              | <b>:</b> | PART –I                                                                                                                     |
|           | <b>b. of the environmental management plans</b>                                                                                                                                                                       | <b>:</b> | PART –II                                                                                                                    |
| <b>7.</b> | <b>Breakup of the project area</b>                                                                                                                                                                                    | <b>:</b> | Total Plot area-63,607.160 sq. m<br>Built up area- 1,81,852.1 Sq. m                                                         |
|           | <b>a. submergence area forest &amp; non-forest</b>                                                                                                                                                                    | <b>:</b> | Not applicable. Since the proposal under reference is in developing part of the CIDCO                                       |
|           | <b>b. Others</b>                                                                                                                                                                                                      | <b>:</b> | NA                                                                                                                          |
| <b>8.</b> | <b>Break-up of the project affected Population with enumeration of Those losing houses / dwelling units Only agricultural land only, both Dwelling units &amp; agricultural Land &amp; landless labourers/artisan</b> | <b>:</b> | There is no displacement of population due to project hence not applicable.                                                 |
|           | <b>a. SC, ST/Adivasis</b>                                                                                                                                                                                             | <b>:</b> | <b>Not Applicable</b>                                                                                                       |

**CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME at Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO**

|    |                                                                              |                                                                                                                                                                                                          |   |                                                                                                                  |
|----|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------|
|    | b.                                                                           | Others<br>(Please indicate whether these Figures are based on any scientific And systematic survey carried out Or only provisional figures, it a Survey is carried out give details And years of survey) | : | Not Applicable                                                                                                   |
| 9. | Financial details                                                            |                                                                                                                                                                                                          | : |                                                                                                                  |
|    | a.                                                                           | Project cost as originally planned and subsequent revised estimates and the year of price reference:                                                                                                     |   |                                                                                                                  |
|    | 1.                                                                           | Total Cost of the Project                                                                                                                                                                                | : | Rs. 789 Crores only                                                                                              |
|    | b.                                                                           | Allocation made for environmental management plans with item wise and year wise Break Up.                                                                                                                | : | Construction Phase: Set up Cost: 44 Lacs,<br>Operation Phase: Set up Cost: 31.75 Lacs, O & M Cost: 35 Lacs/annum |
|    | c.                                                                           | Benefit cost ratio / Internal rate of Return and the year of assessment                                                                                                                                  | : | Not Applicable.                                                                                                  |
|    | d.                                                                           | Whether (c ) includes the cost of environmental management as shown in the above.                                                                                                                        | : | Yes                                                                                                              |
|    | e.                                                                           | Actual expenditure incurred on the project so far                                                                                                                                                        | : | -                                                                                                                |
|    | f.                                                                           | Actual expenditure incurred on the environmental management plans so far.                                                                                                                                |   | Not Applicable                                                                                                   |
| 10 | Forest land requirement                                                      |                                                                                                                                                                                                          | : | Not Applicable                                                                                                   |
|    | a.                                                                           | The status of approval for diversion of forest land for non-forestry use                                                                                                                                 | : | Not Applicable                                                                                                   |
|    | b.                                                                           | The status of clearing felling                                                                                                                                                                           | : | Not Applicable                                                                                                   |
|    | c.                                                                           | The status of compensatory afforestation, it any                                                                                                                                                         | : | Not Applicable                                                                                                   |
|    | d.                                                                           | Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far                                                                          | : | Not Applicable                                                                                                   |
| 11 | The status of clear felling in Non-forest areas (such as submergence area of |                                                                                                                                                                                                          | : | Not Applicable                                                                                                   |

**CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME at Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO**

|    |                                                                                                                                                                                                       |                                                                                                   |                                                      |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------|
|    | reservoir,                                                                                                                                                                                            |                                                                                                   |                                                      |
| 12 | Status of construction                                                                                                                                                                                | :                                                                                                 | Part A                                               |
|    | a.                                                                                                                                                                                                    | Date of commencement<br>(Actual and/or planned )                                                  | : July 2020                                          |
|    | b.                                                                                                                                                                                                    | Date of completion<br>( Actual and/or planned )                                                   | : December 2026                                      |
| 13 | Reasons for the delay if the Project is yet to start                                                                                                                                                  | :                                                                                                 | Not applicable since project activity is in progress |
| 14 | Dates of site visits                                                                                                                                                                                  | :                                                                                                 |                                                      |
|    | a.                                                                                                                                                                                                    | The dates on which the project was monitored by the Regional Office on previous Occasions, if any | : Not yet visited.                                   |
|    | b.                                                                                                                                                                                                    | Date of site visit for this monitoring report                                                     | : -                                                  |
| 15 | Details of correspondence with Project authorities for obtaining Action plans/information on Status of compliance to safeguards Other than the routine letters for Logistic support for site visits ) | :                                                                                                 | Not Applicable                                       |

# **ENCLOSURE NO. I**

Data Sheet in format with Part – I, Part – II & Part- III

CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME at Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO

**PART I**

**PROJECT DETAILS**

|                                                                           |   |                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name &amp; Location</b>                                                | : | "CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME" at Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO                                                                              |
| <b>Total no. Of workers to be employed during the construction phase.</b> | : | Peak: 250 Nos.<br>Average: 50 Nos.                                                                                                                                                                                                 |
| <b>Total Project cost</b>                                                 | : | Rs. 789 Cr only.                                                                                                                                                                                                                   |
| <b>Project infrastructure</b>                                             | : | "Proposed PMAY Housing Project"                                                                                                                                                                                                    |
|                                                                           | : | Total Plot area-63,607.160 sq. m<br>Built up area- 1,81,852.1 Sq. m                                                                                                                                                                |
| <b>Water Requirement and Sources</b>                                      | : | <b>During Construction Phase -</b><br>From Tankers /Municipal Council water: 50 m <sup>3</sup> /day<br>(depending upon the activity)<br><b>During Operational Phase -</b><br>From Local authority water: 1396 m <sup>3</sup> / day |
| <b>Sewage generated</b>                                                   | : | Building: 1112 KLD                                                                                                                                                                                                                 |
| <b>Power</b>                                                              | : | <b>During Construction Phase -</b><br>1. From MSEDCL: 125 KW<br><b>Operational Phase -</b><br>From MSEDCL connected load: 1790 KW<br>5. D.G Set of Capacity: 110 KVA                                                               |
| <b>Gaseous emissions</b>                                                  | : | Pollutants like SPM, SO <sub>2</sub> may arise from emissions from DG Sets will be connected to an appropriately designed vent.                                                                                                    |
| <b>Solid waste from:<br/>Operation Phase</b><br>1. Dry<br>2. Wet          | : | <b>Residential &amp;Commercial</b><br>1396 kg /day.<br>2094 kg/day                                                                                                                                                                 |

## **PART II**

### **ENVIRONMENT MANGEMENT PLAN**

M/s. CIDCO proposes to establish residential Building. Proposal PMAY Housing Building project of Residential Building project is coming up in Plot no. 1 and 2, Sector 50 & 52, near Khandeshwar Creek Side, Kamothe, Navi Mumbai, District: Raigad.

The issues likely to develop at various stages of the project e.g. preconstruction, construction & operation could be addressed by preparing a compatible environmental management plan (EMP) & its effective implementation. During study it is to be considered all the environmental attributes such as air, water, noise solid waste & socio-economic aspects etc.

The main aim of environment management plan is to conserve the resources minimize the waste generation, treatment of waste & recycling of material.

Also incorporates vegetation & landscapes of open area & also the post project quality monitoring.

Environmental management plan (EMP) is aimed at mitigating the possible adverse impact of a project & for ensuring to maintain the existing environmental quality. The EMP converses all aspects of planning, construction & operation of the projects, which are relevant to environment. It is essential to implement the EMP right from the planning stage and then continuing it throughout the construction & operations stage. Therefore, the main objective of the EMP is to identify the projects specific activities that would have to be considered for investigation of the significant adverse impacts & the mitigation measures required.

During study of the environmental attributes, it was seen that all the aspects would be considered to promote the better development in case of future aspects of projects as well as environmental aspects.

#### **1. Water Management:**

Sewage Treatment

Objective of Sewage treatment should be

- Total Sewage will be discharged into Existing Nodal STP of 85 MLD capacity at Kamothe for treatment
- To treat sewage so that it can be re-used for toilet flushing/gardening.
- Balance water should be let out to Municipal sewer drain line.
- Treated sewage should be a reused the maximum extent for toilet flushing.

- The excess treated water should be let out to the nearest corporation sewer line along with road.

#### Description of treatment facility

The nature's way of handling wastewater and is based on Ecological Engineering. The typical sewage treatment envisaged for the construction of STP looking over all the Aspects of reliability & techno economic feasibility study for the proposed building unit will be Moving Bed Bio Reactor. The wastewater is processed by this ecosystem which converts the impurities trapped in the biofilters into stable components followed by a polishing tertiary treatment. The final treated water meets the pollution board norms & can be reused for gardening / irrigation / construction / toilet flushing, etc.

#### Features of the design:

**Capacity of the plants: 705 KLD will be discharged into existing Nodal STP of 85 MLD Capacity at Kamothe for treatment.**

**Treated effluent quality:** Treated effluent meets the most stringent of the standards Compact and Elegant: The system elegantly designed with the particular emphasis on compactness, aesthetics and ergonomics.

| Parameters                | Unit     | Inlet Water Quality | Treated water quality |
|---------------------------|----------|---------------------|-----------------------|
| pH                        | NA       | 6.0-8.5             | 5.5-9.0               |
| BOD                       | mg/l     | 200-500             | <10                   |
| COD                       | mg/l     | 350-450             | <50                   |
| Dissolved PO <sub>4</sub> | mg/l     | 13-15               | <5                    |
| Fecal Coliform            | MPN/100L | Nil                 | Nil                   |
| Total Nitrogen            | mg/l     | 120                 | <50                   |

**Odor free Environment:** The system designs ensures and odor free environment unlike competing systems.

#### Residuals:

Excess sludge from the biological treatment process is dewatered in filter place. This is preferred to other sludge drying methods for the following reasons:

- Saves 80 - 90% on electricity

CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME at Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO

- Easy to operate - only gardener level operator required
- Hence, saves 80 - 90% on O & M cost

[ about Rs. 3-5/- per cu.m.]

- Payback within 4 – 5 years!
- No problem of flow fluctuations in holidays / vacations
- No secondary sludge
- Resembles a beautiful garden!

#### **Environmental Impacts and Life Cycle Assessment**

- Positive environmental impacts.
- Use of a treated water for toilet flushing and the resulting water conservation
- As the operation is essentially soundless, no adverse noise impacts will be created

#### **B) Rain water harvesting:**

Rainwater Harvesting facilities will be created at the project site in the form of aquifer recharge. However, water requirement for the project will not be met from groundwater.

Such rainwater harvesting system should have two-fold objective:

- 1) To utilize rain water available on the plot in direct way or indirect way to reduce the load on water supply system.
- 2) To minimize the storm water drainage load to avoid water logging locally as well as on larger scale.

|                                                                                        |
|----------------------------------------------------------------------------------------|
| <b>Percolation Pits not provided – 03 no. of Tanks Having total capacity is 320 KL</b> |
|----------------------------------------------------------------------------------------|

## **AIR POLLUTION CONTROLE**

### **DURING CONSTRUCTION PHASE:**

The project will contribute in higher dust level during construction phase. The concrete will be made from outside source of Ready-Mix Plant. The debris and utilized construction material and earth from the construction site shall be removed immediately to recycle within the project so that no nuisance dust is generated due to wind. Construction activities shall not be allowed at night.

The site being influence by winds would result in quick dispersal of the pollutants and thereby the impacts due to NO<sub>x</sub> and SO<sub>2</sub> emissions during the construction will be negligible. Therefore, considering all the air pollutants, it is not expected that air emission due to construction will exceed air quality standards (NAAQS)

Precautions, which would be taken to reduce dust generation during construction phase, are mentioned as follows:

- Concrete supplied from an outside source involves trucks carrying cement, gravel, sand travelling to site and may cause dust emission thus ready-mix concrete carried in enclosed container will be used as it is better option compared to onsite batch mixing. The operations shall be carried out in a temporary enclosed shed and workers shall be provided with protection masks.
- Dust covers will be provided on trucks that would be used for transportation of materials prone to fugitive dust emissions.
- Water sprinkling on ground and new construction will be done at regular intervals to avoid dust generation.
- Mitigation measures shall include regular maintenance of machinery and provision of personal protective equipment's to workers where needed.
- Proper upkeep and maintenance of vehicle, sprinkling of water on roads and construction site and providing sufficient vegetation all around the plant site are some of the measures that would reduce the impact during construction phase.

### **AFTER COMPLETION**

The proposed project will not have any direct impact on air environment after completion. To ease the traffic congestion project proponent will provide well organized parking arrangement.

The vehicles employed by the developers shall be checked by vehicular emissions. The developers shall also impress upon the service agencies to get vehicles regularly checked for vehicular emissions.

During operational phase, two numbers of D.G. sets will be provided only in case of power failure of water pumps, fire pumps/ fire-fighting system, stretcher lifts, partial lighting in common lobbies/stairs, partial lighting in stilts/podium access roads etc. DG sets will be complying with CPCB norms for air pollutants.

Emission during construction and operation will be as per the desirable limits of CPCB standards.

## **NOISE POLLUTION CONTROL**

### **Construction Phase:**

During construction phase, source of noise pollution will be due to operation of machinery Earthmoving Machinery Mini Hoist Crane, Hoist Crane, Concrete mini mixer, Weight batcher etc. as well as transportation of vehicles. This will cause nuisance to the occupants of the nearby area. The project proponent has agreed to take precaution to control noise pollution as mentioned under:

- Use of equipment generating noise of not greater than 90 dB (A).
- High noise generating construction activities would be carried out only during daytime.
- Installation, use and maintenance of mufflers on equipment.
- Workers working near high noise construction machinery would be supplied with ear muffs/ear plugs.

### **Operation phase:**

The proposed project being PMAY building, the source of noise is vehicular noise only. The project proponents have proposed to provide adequate parking arrangement, which would help in reducing noise levels due to vehicular movement in the parking area.

The project proponents have proposed wall and rows of trees, which would act as noise buffer and will reduce the noise level within site.

Canopies will be provided to the mechanical devices to reduce noise and vibration. There will not be any considerable impact on the ambient air quality around the project site as CPCB approved DG sets along with acoustic room will be developed and plantations will be provided.

## **SOLID WASTE MANAGEMENT**

### **CONSTRUCTION PHASES:**

Solid waste would be generated mainly due to excavation in the form of rubble and soil. This soil and rubble would be used for development of landscape within the projects site. The Biodegradable and non-biodegradable soil waste which will be generated from labors will be sent to Municipal waste bins working within site.

#### OPERATION PHASE:

Solid waste will be generated in the campus is domestic type having source separated dry and wet components. As far as possible the dry waste like paper, cardboard boxes, thermocol packing, plastic, etc. shall be sent to scrap vendor for recycling purpose. However, wet waste, which is biodegradable, shall be converted to bio-compost by adopting following aerobic composting method.

Solid waste from domestic sources shall be treated by the following ways:

- Wet garbage: Composting within the premises and using it as manure.
- Sludge from S.T.P will be used in –house.

Biodegradable and non-biodegradable waste will be segregated. Dry waste will be sent for recycling and 'In vessel process' will be used for composting of wet waste.

#### **Solid Waste Management**

##### **During Operation Phase**

Quantity of wet waste – 2094 kg/day.

Quantity of Dry waste – 1396 kg/day.

Biodegradable and non-biodegradable waste will be segregated. Dry waste will be sent for recycling and wet waste will be treated in OWC for composting.

#### **1. GREEN BELT DEVELOPMENT**

The project proponent will also propose to develop landscape garden by planting native tree. The project proponents have proposed a landscape and covered with vegetation of indigenous variety.

#### **ENERGY CONSERVATION**

Energy conservation measures are often the easiest, quickest and cheapest way to reduce costs and be environmentally pro-active. Energy conservation program will be implemented through measures taken both on energy demand and supply. Energy conservation is focused during the complex planning and operation stages. The conservation efforts would consist of the following:

### **Measures to reduce energy consumption-**

- Minimize use of air conditioning so as to use of architectural design.
- Maximize the use of natural lighting and ventilation through design.
- Purchase of energy efficient appliances
- Constant monitoring of energy consumption and defining targets for energy conservation. Energy monitoring will be done with the help of Energy meters.
- Adjusting the settings and illumination levels to ensure minimum energy used for desired comfort levels. Design based on lux level calculations.
- Use of compact fluorescent lamps and low voltage lighting.
- Sunscreen films on windows to reduce heating inside the buildings.
- Awareness on energy conservation will be raised among the users of the building in the complex.
- Use of windmills to cover-up the part lighting load of common area

Maximum priority is given for placement of solar water on top terraces. The appurtenant spaces here common lighting is required are proposed to use unconventional energy.

### **ARCHITECTURAL DESIGNS**

- Maximum ground is covered by green patches to reduce reflection of heat from ground surface.
- Shade giving trees are proposed around the condominium especially on South & west side to cast shadow on the ground & building.
- By accommodating maximum parking area are covered parking, heat generation due to vehicle is compressed below the building.
- Thermal paint application is proposed for external walls which reduce & reflect heat. Direct exposure to sun is reduced by proposing double height terraces & double wall external walls. Adequate sunshades are proposed.

### **Thermal Characteristics of the building envelop:**

- a) Terraces will be treated with a layer of brick bat coba for reduction in heat gain through roof.
- b) Overhang projections & horizontal band of 0.3m will be provided around the windows which will be reducing solar heat gain assures maximum natural light and ventilation in the buildings.
- c) External shading is prominently use in the complex intercepts solar heat before it reaches the glass /wall.

d) External walls are 150 mm with 10 mm plaster on both the sides (cavity wall), double height terraces are provided to reduce direct exposure to sun. Tinted colored with light slightly tinted colors to reduce solar heat gain & will reflect heat.

e) Friendly acrylic paint.

## **7. ENVIROMENTAL AND SAFETY CARE**

The project proponents shall follow all the safety rules and regulation as prescribed by regulatory authority as under-

Fire and general safety Measures

The system is having

a) Fire Hydrant System

b) Fire alarm System Manual

c) Portable Fire Extinguishers

a) Fire Hydrate System consist of following

- Wet Riser mm dia Class C from terrace to UG tank.100 mm dia G I Pipe Class C from water tank to booster pump & pump to terrace
- Fire Hydrant Value, Fire House Pipe 63mm dia, Short Branch Pipe , House Reel drum – one each Landing.
- Fire Inlet at parking and road side.
- Court Yard Hydrants on each 30Meter on periphery of building.
- One Pump on UG tank to give discharge of 2280 LPM @ meter head

b) Fire Alarm System

- Manual Call Point cum Hooter with microphone on each landing.
- Talk Back Public Address System Panel at Parking.

c) Portable Fire Extinguishers – At lift room, meter board, parking transformer room.

## **WATER LOGGING-**

The projects proponent has made proper storm water drain arrangement and rainwater harvesting will be implemented within their premises. Hence water logging will be less.

## **10. FUNCATIONS OF ENVIRNMENTAL MANGEMENT CELL**

10.1 Formation of Environmental Management Cell:

CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME at Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO

Monitoring and feedback become essential to ensure that the mitigation measures planned by way of environmental protection management cell comprising senior officials may be constituted

To maintain the EMP, a structured Environmental Management Cell (EMC) interwoven with the existing management system will be created. EMC will undertake regular monitoring of the environmental and conduct yearly audit of the environmental performance during the construction of the project. It will also check that the stipulated measures are being satisfactorily implemented and operated. It shall also co-ordinate with local authorities to see that all environmental measures are well coordinated.

EMC will perform following functions

Monthly review of environmental problems and monitoring of installation / performances /maintains of pollution control measures.

Enforcement of latest rules and regulation under relevant Environmental protection acts.

Preparation of budgetary estimates to seek sanctions for new pollutions control measures if required and/or up-gradation of existing ones based on new technologies.

Emergency planning.

EMC shall meet at least once a month and take stock of progress of work relating to decision taken and targets set in the previous meeting.

## **FORMATION OF TASK FORCE**

A task having force having organizational set-up comprising staff of various grades shall be constituted. The task force will ensure following tasks:

Monitoring activities within core & buffer zone.

Monitoring of efficiency of pollution control schemes.

Preparation of maintenance scheduled of STP & composting plant and ensures that is followed strictly.

Inspection and regular cleaning of draining system.

Green- belt development.

Water and energy conservation.

**Good housekeeping.**

CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME at Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO

Apprising EMC on regular basis.

### **MONITORING PROGRAM**

A comprehensive environmental monitoring program that has been prepared for the purpose of implementation in the proposed residential complex will be strictly followed to ensure the success of environmental management activities.

It is proposed to carry out environmental monitoring work of factory by MoEF recognized laboratory. They will assign the work for carrying environmental audit for each year. Also environmental awareness program shall be conducted on regular basis.

CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME at Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO

**PART –III**

**ALLOCATION MADE FOR ENVIRON-MENTAL MANAGEMENT PLANS**

**DURING OPERATIONAL PHASE:**

**CAPITAL INVESTMENT FOR ECOFRIENDLY FEATURES**

| <b>Sr. No</b>       | <b>Project</b>         | <b>Capital Cost<br/><br/>(Rs. Lakhs)</b> | <b>O &amp; M<br/>Cost/Year<br/><br/>(Rs. Lakhs)</b> |
|---------------------|------------------------|------------------------------------------|-----------------------------------------------------|
| 1                   | Rainwater harvesting   | 5.25                                     | 7.00                                                |
| 2                   | OWC                    | 6.00                                     | 8.00                                                |
| 3                   | Landscaping            | 6.00                                     | 6.00                                                |
| 4                   | Environment Monitoring | -                                        | 1.00                                                |
| 5.                  | Energy                 | 14.50                                    | 13.00                                               |
| <b>Total Amount</b> |                        | <b>31.75</b>                             | <b>35.00</b>                                        |

# **ENCLOSURE NO. II**

A COPY OF ENVIRONMENTAL CLEARANCE

## STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

No. SIA/MH/MIS/53187/2020  
Environment Department  
Room No. 217, 2<sup>nd</sup> Floor,  
Mantralaya,  
Mumbai- 400032.  
Date: 08.07.2020.

To  
CIDCO  
Plot no. 1 and 2,  
Sector no. 50 and 52,  
Kamothe, Navi Mumbai.

Subject : Environment Clearance for CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME AT PLOT NO. 1 AND 2 SECTOR NO. 50 AND 52 AT Kamothe, Navi Mumbai (KHANDESHWAR CREEK SIDE) by CIDCO

Reference : Application no. SIA/MH/MIS/53187/2020

This has reference to your communication on the above mentioned subject. The proposal was considered by the SEAC-2 in its 133<sup>rd</sup> meeting under screening category 8 (b) as per EIA Notification, 2006 and recommend to SEIAA. Proposal then considered in 200<sup>th</sup> meeting of State Level Environment Impact Assessment Authority (SEIAA).

2. Brief Information of the project submitted by you is as below:-

- Plot area : 63607.160sq.m
- FSI : 106397.147 sq.m
- Non FSI : 75454.964sq.m
- Total Built up area : 181852.11sq.m
- Building configuration : LIG TYPE – C- 15 no. of Building - S+15, LIG TYPE – C- 3 no. of Building - S+13
- Number of Tenements : --
- Total population : 1989
- Water requirement : 1396 KLD/Day
- Sewage generation : 1112 KLD
- STP capacity & Technology : Sewage generated will be treated at Nodal
- STP of CIDCO
- STP location : Nodal STP
- RG area provided: Required - 24935.073 sq.m., Provided - 9541.074 sq.m.
- Energy requirement : Connected Load- 1790 kW, Demand Load- ----
- Total Energy saving : 00 kW, solar- 00 kW
- No. of DG sets & capacities : 5 No 110 kVA
- Solid waste generation : 1396 kg/day, Biodegradable waste: 2094 kg/day
- OWC capacities : --
- Parking : Residential car park -1989, Car park on stilit/ ground - ----
- ,Stack Car Park Under Stilit -433X2, Parking For Diffrently able 2 Per
- Tower, 10% Visitor- , Total Residential Car Parking, 10% Of 2 Wheeler
- Parking Required
- EMP cost : 44 Laes during Construction 31.75 lac During Operation & O &
- M Cost (Lakhs/annum)-35 lac

- Rain water harvesting : 2 Nos.No. of pits & size of pits: 2 Nos of 6800x
- 3500 of 70 CUM.Details of UG tanks & no. of capacity :- 2 Nos 150cum
- CER : 1.00 % of the Total Project Cost

3. The proposal has been considered by SEIAA in its 200<sup>th</sup> meeting and decided to accord Environment Clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implantation of following terms and conditions-

**Specific Conditions:**

- i. PP to adopt following segregation & treatment method for the sewage generated from the residential complex.
  - A. Grey water: - The waste water emanating from bathroom, kitchen sinks, wash basins, showers, dish washers should be collected separately and treated on site, suitably to a level for reuse for flushing of toilets in apartment buildings and gardening.
  - B. Black Water: - The waste water emanating from Flushing of toilets shall be collected separately and conveyed through sewer to the nodal STP for treatment and reuse for central garden, Golf course etc.
- ii. PP to adopt water conservation measures by providing Low Flow Devices (LFD) as plumbing fixtures.
- iii. PP to ensure that the energy savings from renewable sources shall be minimum 5.84 %.
- iv. No Occupation Certificate (OC) to be granted to the project unless the raw water supply is assured from Hetwane dam.
- v. PP to obtain CRZ clearance from MCZMA and comply all the conditions stipulated.
- vi. As committed during presentation the green area proposed which is part of CRZ area shall remain intact and green zone only and no further development will be allowed as it is part of the layout of this project. PP to submit an Undertaking to that effect.
- vii. PP to abide all conditions of NOCs granted by the different authorities.
- viii. PP to explore to provide left Over CRZ area to be converted into Green area.
- ix. PP to follow all conditions prescribed by MSETCL for shifting of high tension Line, underground. PP to ensure that no building or any construction work is undertaken within the safety distances prescribed by MSETCL.
- x. PP to calculate the reduction in potable water consumption due to provision of Grey water treatment plant at site. The same shall be implemented.
- xi. The PP to get NOC from competent authority with reference to Thane creek flamingo sanctuary if the project site falls within 10 Km radius from the said sanctuary boundary, if applicable. The planning authority to ensure fulfilment of this condition before granting CC.
- xii. PP to submit CER prescribed by MoEF&CC circular dated 1.5.2018 relevant to the area and people around the project. The specific activities to be undertaken under CER to be carried out in consultation with Municipal Corporation or collector or Environment Department.
- xiii. PP to ensure that CER plan gets approved from Municipal Commissioner.
- xiv. PP Shall comply with Standard EC conditions mentioned in the Office Memorandum issued by MoEF& CC vide F.No.22-34/2018-IA.III dt.04.01.2019.
- xv. SEIAA decided to grant EC for -FSI: 106397.147 m2, Non-FSI: 75454.964 m2 and Total BUA: 181852.11 m2 (Plan Approval no- CIDCO/SR.ARCH.(BP-IHP)/2209/433/E-211 dated 25.02.2020)

**General Conditions:**

- i. E-waste shall be disposed through Authorized vendor as per E-waste (Management and Handling) Rules, 2016.
- ii. The Occupancy Certificate shall be issued by the Local Planning Authority to the project only

- after ensuring sustained availability of drinking water, connectivity of sewer line to the project site and proper disposal of treated water as per environmental norms.
- iii. This environmental clearance is issued subject to obtaining NOC from Forestry & Wild life angle including clearance from the standing committee of the National Board for Wild life as if applicable & this environment clearance does not necessarily implies that Forestry & Wild life clearance granted to the project which will be considered separately on merit.
  - iv. PP has to abide by the conditions stipulated by SEAC& SEIAA.
  - v. The height, Construction built up area of proposed construction shall be in accordance with the existing FSI/FAR norms of the urban local body & it should ensure the same along with survey number before approving layout plan & before according commencement certificate to proposed work. Plan approving authority should also ensure the zoning permissibility for the proposed project as per the approved development plan of the area.
  - vi. If applicable Consent for Establishment" shall be obtained from Maharashtra Pollution Control Board under Air and Water Act and a copy shall be submitted to the Environment department before start of any construction work at the site.
  - vii. All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.
  - viii. Adequate drinking water and sanitary facilities should be provided for construction workers at the site. Provision should be made for mobile toilets. The safe disposal of wastewater and solid wastes generated during the construction phase should be ensured.
  - ix. The solid waste generated should be properly collected and segregated. Dry/inert solid waste should be disposed of to the approved sites for land filling after recovering recyclable material.
  - x. Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
  - xi. Arrangement shall be made that waste water and storm water do not get mixed.
  - xii. All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.
  - xiii. Additional soil for levelling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved.
  - xiv. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
  - xv. Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
  - xvi. Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate watercourses and the dumpsites for such material must be secured so that they should not leach into the ground water.
  - xvii. Any hazardous waste generated during construction phase should be disposed of as per applicable rules and norms with necessary approvals of the Maharashtra Pollution Control Board.
  - xviii. The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environments (Protection) Rules prescribed for air and noise emission standards.
  - xix. The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from concern authority shall be taken.
  - xx. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
  - xxi. Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/MPCB.
  - xxii. Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September 1999 and amended as on 27th August, 2003. (The above condition is applicable only if the project site is located within the 100Km. of Thermal Power Stations).

- xxiii. Ready mixed concrete must be used in building construction.
- xxiv. Storm water control and its re-use as per CGWB and BIS standards for various applications.
- xxv. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
- xxvi. The ground water level and its quality should be monitored regularly in consultation with Ground Water Authority.<sup>3</sup>
- xxvii. The installation of the Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the MPCB and Environment department before the project is commissioned for operation. Discharge of this unused treated effluent, if any should be discharge in the sewer line. Treated effluent emanating from STP shall be recycled/ refused to the maximum extent possible. Discharge of this unused treated effluent, if any should be discharge in the sewer line. Treatment of 100% grey water by decentralized treatment should be done. Necessary measures should be made to mitigate the odour problem from STP.
- xxviii. Permission to draw ground water and construction of basement if any shall be obtained from the competent Authority prior to construction/operation of the project.
- xxix. Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.
- xxx. Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
- xxxi. Use of glass may be reduced up to 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.
- xxxii. Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirement.
- xxxiii. Energy conservation measures like installation of CFLs /TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed of /sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible like installing solar street lights, common solar water heaters system. Project proponent should install, after checking feasibility, solar plus hybrid non-conventional energy source as source of energy.
- xxxiv. Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Maharashtra Pollution Control Board.
- xxxv. Noise should be controlled to ensure that it does not exceed the prescribed standards. During night-time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.
- xxxvi. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.
- xxxvii. Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code, which is proposed to be mandatory for all air-conditioned spaces while it is aspiration for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfil requirement.
- xxxviii. The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.
- xxxix. Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.
- xl. Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.
- xli. Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.



Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.

6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, amended time to time.

8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

10. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1<sup>st</sup> Floor, D-Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

  
Anil Diggikar  
(Member Secretary, SEIAA)

Copy to:

1. Shri Johnny Joseph, Chairman, SEIAA.
2. Secretary, MoEF & CC
3. IA- Division MOEF & CC
4. Member Secretary, Maharashtra Pollution Control Board, Mumbai.
5. Regional Office MoEF & CC, Nagpur
6. District Collector, Raigad.
7. Commissioner, Panvel Municipal Corporation
8. Regional Officer, Maharashtra Pollution Control Board, Navi Mumbai.

# **ENCLOSURE NO. III**

CONSENT TO ESTABLISH

# MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437  
Fax: 24023518  
Website: <http://mpcb.gov.in>  
Email: [cac-cell@mpcb.gov.in](mailto:cac-cell@mpcb.gov.in)



Kalpataru Point, 2nd and  
4th floor, Opp. Cine Planet  
Cinema, Near Sion Circle,  
Sion (E), Mumbai-400022

No:- Format1.0/CAC-CELL/UAN No.0000098384/CE - 2102000392

Date: 05/02/2024

To,  
M/s CITY AND INDUSTRIAL DEVELOPMENT  
CORPORATION OF MAHARASHTRA LTD.  
(CIDCO), Plot Nos. 1 & 2, Sector Nos. 50 &  
52, Kamothe (Khandeshwar Station  
Creek), Navi Mumbai, Dist. Raigad.

**Sub: Grant of Consent to Establish for construction of 18 Nos. of Residential buildings under Pradhan Mantri Awas Yojana (PMAY) under L.S.I Red Category**

**Ref:** 1. Environment Clearance accorded by Env. Dept GoM vide No. SIA/MH/MIS/53187/2020 dtd. 08/07/2020.

2. Minutes of Consent Appraisal Committee meeting held on 19/12/2020.

Your application NO. MPCB-CONSENT-0000098384

For: grant of Consent to Establish under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization / Renewal of Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. The Consent to Establish is granted for a period upto commissioning of project or up to 5 year whichever is earlier.
2. The capital investment of the project is Rs.789 Crs. (As per undertaking submitted by pp).
3. The Consent to Establish is valid for construction of 18 Nos. of Residential buildings under Pradhan Mantri Awas Yojana (PMAY) of M/s CITY AND INDUSTRIAL DEVELOPMENT CORPORATION OF MAHARASHTRA LTD, (CIDCO) at plot bearing Plot Nos. 1 & 2, Sector Nos. 50 & 52, Kamothe (Khandeshwar Station Creek), Navi Mumbai, Dist. Raigad on total plot area 63,607.106 sq. mtrs. for total construction BUA 1,81,852.11 sq. mtrs. as per Environment Clearance granted dated 08/07/2020 and construction permission issued by Local Body including utilities and services.
4. Conditions under Water (P&CP), 1974 Act for discharge of effluent:

| Sr No | Description       | Permitted (in CMD) | Standards to        | Disposal                                               |
|-------|-------------------|--------------------|---------------------|--------------------------------------------------------|
| 1.    | Trade effluent    | Nil                | NA                  | NA                                                     |
| 2.    | Domestic effluent | 900                | As per Schedule - I | Sent to CIDCO's 85 MLD Nodal STP at Sector 32, Kamothe |



5. **Conditions under Air (P& CP) Act, 1981 for air emissions:**

| Stack No.  | Description of stack / source | Number of Stack | Standards to be achieved |
|------------|-------------------------------|-----------------|--------------------------|
| S-1 to S-5 | DG Sets (5 x 110 KVA)         | 5               | As per Schedule -II      |

6. **Conditions under Solid Waste Rules, 2016:**

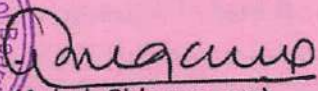
| Sr No | Type Of Waste           | Quantity & UoM | Treatment                  | Disposal                 |
|-------|-------------------------|----------------|----------------------------|--------------------------|
| 1     | Non Biodegradable Waste | 3924.41 Kg/Day | Segregation                | Auth. vendor/ Local Body |
| 2     | Biodegradable waste     | 2832 Kg/Day    | OWC followed by composting | Used as Manure           |
| 3     | STP Sludge              | 150 Kg/Day     | Drying                     | Used as Manure           |

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:**

| Sr No | Category No.        | Quantity | UoM   | Treatment | Disposal                      |
|-------|---------------------|----------|-------|-----------|-------------------------------|
| 1     | 5.1 Used /spent oil | 100      | Ltr/A | Recycle   | Sale to Auth. Party/ Recycler |

- 8 This Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
- 9 This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government agencies.
- 10 PP shall make arrangements for collection & pumping of the domestic effluent for sending to CIDCO's 85 MLD Nodal STP at Sector 32, Kamothe for treatment & disposal. Also, necessary pumping & pipeline arrangements for the recycling of treated sewage for flushing & gardening shall be made.
- 11 PP shall ensure to achieve treated domestic effluent BOD standards 10 mg/l.
- 12 PP shall recycle/ reuse 60% of treated domestic effluent for toilet flushing, firefighting and apply remaining for construction activities till commissioning and/ or on land for gardening purpose by providing dual pumping arrangements for fresh water & recycled treated water with water metering system.
- 13 PP shall install Composting facility for the treatment of Biodegradable waste and compost obtained shall be used as manure for gardening.
- 14 PP shall submit Bank Guarantee of Rs. 25 Lakh towards compliance of Environment Clearance & Consent to Establish conditions
- 15 PP shall carry out traffic impact assessment of the proposed development.

For and on behalf of the  
Maharashtra Pollution Control Board.

  
(Ashok Shingare IAS),  
Member Secretary

**Received Consent fee of -**

| Sr.No | Amount(Rs.) | Transaction/DR.No. | Date       | Transaction Type |
|-------|-------------|--------------------|------------|------------------|
| 1     | 1578000.00  | MPCB-DR-2411       | 27/10/2020 | RTGS             |

**Copy to:**

1. Regional Officer, MPCB, Raigad and Sub-Regional Officer, MPCB, Raigad I  
- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Sion, Mumbai
3. CC-CAC Desk- for record & website updating purpose.



### SCHEDULE-I

#### **Terms & conditions for compliance of Water Pollution Control:**

- 1) A] As per your application, you have proposed to send 900 CMD domestic effluent to CIDCO's existing 85 MLD MBBR technology based Nodal STP at Sector 32, Kamothe for treatment & disposal.
- B] The Applicant shall operate the sewage treatment plant (STP) to treat the sewage so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent.

| Sr. No. | Parameters                                       | Standards prescribed by Board                 |
|---------|--------------------------------------------------|-----------------------------------------------|
|         |                                                  | Limiting Concentration in mg/l, except for pH |
| 1.      | pH                                               | 5.5-9.0                                       |
| 2.      | Bio-Checimal Oxygen Demand (BOD)                 | 10                                            |
| 3.      | Chemical Oxygen Demand (COD)                     | 50                                            |
| 4.      | Nitrogen Total                                   | 10                                            |
| 5.      | Phosphorus-Total(For Discharge into Ponds,Lakes) | 1.0                                           |
| 6.      | Fecal Coliform (FC) (Most Probable)              | Desirable-100 Permissible-230                 |

- C] The treated domestic effluent shall be recycled/ reused 60% for toilet flushing, firefighting and apply remaining for construction activities till commissioning and/or on land for gardening purpose by providing dual pumping arrangements for fresh water & recycled treated water with water metering system.
- 2) The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or and extension or addition thereto.
- 3) The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
- 4) **The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act,1974 and as amended, and other provisions as contained in the said act.**

| Sr. No. | Purpose for water consumed                                                                     | Water consumption quantity (CMD) |
|---------|------------------------------------------------------------------------------------------------|----------------------------------|
| 1.      | Industrial Cooling, spraying in mine pits or boiler feed                                       | 0.00                             |
| 2.      | Domestic purpose                                                                               | 900.00                           |
| 3.      | Processing whereby water gets polluted & pollutants are easily biodegradable                   | 496.00                           |
| 4.      | Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic | 0.00                             |

- 5) The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time.

## SCHEDULE-II

### Terms & conditions for compliance of Air Pollution Control:

- 1) As per your application, you have proposed to provide the Air pollution control (APC) system and also proposed to erect following stack (s) and to observe the following fuel pattern-

| Stack No.  | Stack Attached To     | APC System                | Height in Mtrs. | Type of Fuel | Quantity & UoM |
|------------|-----------------------|---------------------------|-----------------|--------------|----------------|
| S-1 to S-5 | DG Sets (5 x 110 KVA) | Acoustic Enclosure/ Stack | 3               | Disel        | 150 Kg/Hr      |

- 2) The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards.

|                         |               |                        |
|-------------------------|---------------|------------------------|
| Total Particular matter | Not to exceed | 150 mg/Nm <sup>3</sup> |
|-------------------------|---------------|------------------------|

- 3) The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement well before its life come to an end or erection of new pollution control equipment.
- 4) The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
- 5) **Conditions for utilities like Kitchen, Eating Places, Canteens:-**
- The kitchen shall be provided with exhaust system chimney with oil catcher connected to chimney through ducting.
  - The toilet shall be provided with exhaust system connected to chimney through ducting.
  - The air conditioner shall be vibration proof and the noise shall not exceed 68 dB(A).
  - The exhaust hot air from A.C. shall be attached to Chimney at least 5 mtrs. higher than the nearest tallest building through ducting and shall discharge into open air in such a way that no nuisance is caused to neighbors.



**SCHEDULE-III**  
**Details of Bank Guarantees:**

| Sr. No. | Consent(C2E/C2O/C2R) | Amt. of BG Imposed | Submission Period | Purpose of BG                                                                       | Compliance Period | Validity Date |
|---------|----------------------|--------------------|-------------------|-------------------------------------------------------------------------------------|-------------------|---------------|
| 1       | C2E                  | 2500000            | Within 15 days    | Towards compliance of the Environmental Clearance & Consent to Establish conditions | 31.12.2025        | 30.04.2026    |

**\*\*** The above Bank Guarantee(s) shall be submitted by the applicant in favour of Regional Officer at the respective Regional Office within 15 days of the date of issue of Consent.  
**# Existing BG obtained for above purpose if any may be extended for period of validity as above.**

**BG Forfeiture History**

| Srno. | Consent (C2E/C2O/C2R) | Amount of BG imposed | Submission Period | Purpose of BG | Amount of BG Forfeiture | Reason of BG Forfeiture |
|-------|-----------------------|----------------------|-------------------|---------------|-------------------------|-------------------------|
| NA    |                       |                      |                   |               |                         |                         |

**BG Return details**

| Srno. | Consent (C2E/C2O/C2R) | BG imposed | Purpose of BG | Amount of BG Returned |
|-------|-----------------------|------------|---------------|-----------------------|
| NA    |                       |            |               |                       |



*[Handwritten signature]*

#### **SCHEDULE-IV**

##### **Conditions during construction phase**

|          |                                                                                                                                                                                                                                                            |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A</b> | During construction phase, applicant shall provide temporary sewage and MSW treatment and disposal facility for the staff and worker quarters.                                                                                                             |
| <b>B</b> | During construction phase, the ambient air and noise quality shall be maintained and should be closely monitored through MoEF approved laboratory.                                                                                                         |
| <b>C</b> | Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations. |

##### **General Conditions:**

- 1 The applicant shall provide facility for collection of samples of sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
- 2 The firm shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act 1986 and Solid Waste Management Rule 2016, Noise (Pollution and Control) Rules, 2000 and E-Waste (Management & Handling Rule 2011.
- 3 Drainage system shall be provided for collection of sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No sewage shall be admitted in the pipes/sewers downstream of the terminal manholes. No sewage shall find its way other than in designed and provided collection system.
- 4 Vehicles hired for bringing construction material to the site should be in good condition and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.
- 5 Conditions for D.G. Set
  - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
  - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
  - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
  - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
  - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
  - f) D.G. Set shall be operated only in case of power failure.
  - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
  - h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.

- 6 Solid Waste - The applicant shall provide onsite municipal solid waste processing system & shall comply with Solid Waste Management Rule 2016 & E-Waste (M & H) Rule 2011.
- 7 Affidavit undertaking in respect of no change in the status of consent conditions and compliance of the consent conditions the draft can be downloaded from the official web site of the MPCB.
- 8 Applicant shall submit official e-mail address and any change will be duly informed to the MPCB.
- 9 The treated sewage shall be disinfected using suitable disinfection method.
- 10 The firm shall submit to this office, the 30th day of September every year, the environment statement report for the financial year ending 31st march in the prescribed Form-V as per the provision of rule 14 of the Environmental (Protection) Second Amended rule 1992.
- 11 The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before commissioning of the project.



**PART D**  
**ALL ANNEXURE**

**CITY AND INDUSTRIAL DEVELOPMENT CORPORATION OF MAHARASHTRA LIMITED**

(CIN - U99999 MH 1970 SGC - 014574)

**REGD. OFFICE:**

"NIRMAL", 2nd Floor, Nariman Point,  
Mumbai - 400 021.  
PHONE : 00-91-22-6650 0900  
FAX : 00-91-22-2202 2509

**HEAD OFFICE:**

CIDCO Bhavan, CBD Belapur,  
Navi Mumbai - 400 614.  
PHONE: 00-91-22-6791 8100  
FAX : 00-91-22-6791 8166

**Ref. No.**

CIDCO/CE (SP)/2020/2869

**Date :**

03.07.2020

To,  
The District Collector and District Magistrate,  
District Collector's Office  
At/PO - Alibaug,  
District - Raigad  
Pin - 402 201

**Subject :** Proposed Corporate Environmental Responsibility (CER) activities for Proposed Affordable Housing under PMAY scheme at Plot No.2 in Sector- 50 & Plot No. 1 in Sector- 52 at Kamothe, Navi Mumbai.

Respected Sir,

Please find enclosed herewith the Corporate Environmental Responsibility (CER) activities in accordance with the circular issued by Ministry of Environment Forest and Climate Change (MOEF & CC) dated 1.5.2018 and subsequent circular of 19<sup>th</sup> June 2018 on Corporate Environmental Responsibility (CER) for Proposed Affordable Housing under PMAY scheme at Plot No.2 in Sector- 50 & Plot No. 1 in Sector- 52 at Kamothe, Navi Mumbai.

This is for your kind information

Yours faithfully,

  
(S. K. Chotalia)  
Chief Engineer (SP)  
CIDCO Ltd., 6<sup>th</sup> floor, CIDCO Bhavan,  
CBD Belapur, Navi Mumbai-400 614

Encl: CER activity plan

**CITY AND INDUSTRIAL DEVELOPMENT CORPORATION OF MAHARASHTRA LIMITED**

(CIN : U99999 MH 1970 SGC - 014574)

**REGD. OFFICE**

 NORMAL - 2nd Floor, Nariman Point  
 Mumbai - 400 021  
 PHONE : 00-91-22-6650 0900  
 FAX : 00-91-22-2702 2500

**HEAD OFFICE:**

 CIDCO Bhayana, CBD Belapur,  
 Navi Mumbai - 400 614  
 PHONE: 00-91-22-6791 8100  
 FAX : 00-91-22-6791 8166

Ref. No. No.CIDCO CE(SPI)/2020/2843-(a)

Date : 19.06.2020

**CORPORATE ENVIRONMENTAL RESPONSIBILITY**

In accordance with the circular issued by Ministry of Environment, Forest and climate change (MoEF & CC) dated May 01, 2018 and subsequent circular of June 19, 2018 on Corporate Environment Responsibility we hereby submit our plan as below;

**A. Basic Information of the project**

| No. | Description                                                                                                                                      | Details                                                                                                                                                                                  |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | Name of the Project                                                                                                                              | Proposed mass Housing Scheme on Plot No. 2 in Sector No. 50 and Plot No.1 in sector 52 at Kamothe, Navi Mumbai. (Khandeshwar Station Creek Side) under Pradhan Mantri Awas Yojna (PMAY). |
| 2   | Location of the Project                                                                                                                          | Plot No. 2 in Sector No. 50 and Plot No.1 in sector 52 at Kamothe, Navi Mumbai.                                                                                                          |
| 3   | Project type (Green/Brown field)                                                                                                                 | Green field                                                                                                                                                                              |
| 4   | Cost of the project as mentioned in CS (Rupees in Crore)                                                                                         | Rs. 789 Crores                                                                                                                                                                           |
| 5   | Any previous EC and Completion Certificate of the part of the project before may 01,2018, if yes give the details with date and reference number | Nil                                                                                                                                                                                      |
| 6   | Cost of the part completed project (as per details given at Sr. No.5)                                                                            | Nil                                                                                                                                                                                      |
| 7   | Effective cost of the project for CER consideration (4-6)                                                                                        | Rs. 789 Crores                                                                                                                                                                           |
| 8   | Applicable norm in terms of % of the project cost for CER and amount (Rupees in Crore) (1.0 %)                                                   | Rs. 7.89 Crores                                                                                                                                                                          |
| 9   | Expected duration for completion of the project (Years)                                                                                          | 5 Years                                                                                                                                                                                  |
| 10  | Implementing Agency Identified (NGO/Trust/ULB) give name and details                                                                             | Yet not identified                                                                                                                                                                       |
| 11  | Please attached agreement with implementing Agency                                                                                               | —                                                                                                                                                                                        |

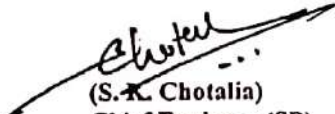
In case of any corruption related complaints, please visit :  
[www.cidco.maharashtra.gov.in](http://www.cidco.maharashtra.gov.in) Click on Dakshata link

B. CER Activities Proposed: (Please propose as per the suggested list given in table below)

| No | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Details                                                                                                                                                                                   |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Any issue raised during the public hearing, social need assessment, R&R plan, EMP, etc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Not applicable                                                                                                                                                                            |
| 2  | If Yes Please give details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                                                                                                                                                         |
| 3  | CER activities proposed to be from suggested activities as infrastructure creation for drinking water supply, sanitation health, education, skill development, roads, cross drains, electrification including solar power, solid waste management facilities, scientific support and awareness to local farmers to increase yield of crop and fodder, rain water harvesting, soil moisture conservation works, avenue plantation, plantation in community areas, community level sewage treatment plant, solid waste (composter of Biogas plants), air quality monitoring research activities on environmental aspects training programmes on waste management including skill development aspects for town/ village/ pilot project on clean energy/ environment etc. | CER Activities proposed are as follows: <ul style="list-style-type: none"> <li>• Sanitation</li> <li>• Health</li> <li>• Education</li> <li>• Water Supply</li> <li>• Training</li> </ul> |
| 4  | Consent of implementing agency (NGO etc.) and local authority to accept the CER in case of environmental infrastructure project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                           |
| 5  | Year wise activity indicating the detail of plan and cost ( as applicable for duration of the project attach separate sheet with Gnat Chat which will be useful for monitoring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                           |
|    | First year ( Indicate year)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.5 cr                                                                                                                                                                                    |
|    | Second year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.5 cr                                                                                                                                                                                    |
|    | Third year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.5 cr                                                                                                                                                                                    |
|    | Forth year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.5 cr                                                                                                                                                                                    |
|    | Fifth year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1.89 cr                                                                                                                                                                                   |

We undertake to complete the work with our CER commitment as per OM dated 01.05.2018

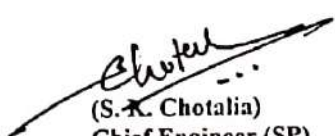
The list of identified works for proposed CER is enclosed as Annexure "A"

  
(S.K. Chotalia)  
Chief Engineer (SP)  
CIDCO Ltd. 6<sup>th</sup> Floor  
CIDCO Bhavan, CBD Belapur,  
Place: Navi Mumbai  
Date: 19.06.2020

## ANNEXURE – A

**Budgeted works Identified under EE(PNL-I) & EE(KMT)  
Divisions for year 2020-21 onwards for CER – Khandeshwar Creek site**

| Sr. No. | Name of work                                                                                                                   | Estimated/Contract amount<br>(Amount in Lakhs) |
|---------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| 1       | Grant-In-Aid work for Providing, supplying, lowering, laying and jointing D.I. water supply lines at Kundevahal, Tal : Panvel. | 44.19                                          |
| 2       | Construction of water tank at Khalche owale under Grant-In-Aid, Tal. Panvel.                                                   | 46.21                                          |
| 3       | Development works at Kundevahal village                                                                                        | 92.30                                          |
| 4       | Consultancy Services for Grant-In-Aid Works (Panvel E & W)                                                                     | 20.00                                          |
| 5       | Grant-In-Aid works                                                                                                             | 100.00                                         |
| 6       | P/S/L/L D.I. water supply line at Kundevahal Village.                                                                          | 40.63                                          |
| 7       | Grant-In-Aid works for development works at Asudgaon village, tal. Panvel, Dist. Raigad                                        | 37.90                                          |
| 8       | Grant-In-Aid works for development works at Bambavipada under Kundevahal Gram Panchayat.                                       | 38.39                                          |
| 9       | Grant-In-Aid works for development work at Khalche Owale.                                                                      | 87.88                                          |
| 10      | Beautification of Water Pond in Sector-15 at kamothe Node in Navi Mumbai.                                                      | 90.00                                          |
| 11      | Providing & Laying grey water supply line for reuse of treated water from STP in sect-32 at Kamothe.                           | 200.00                                         |
|         | <b>Total amount in Lakhs.</b>                                                                                                  | <b>797.50</b>                                  |

  
(S.K. Chotalia)  
Chief Engineer (SP)  
CIDCO Ltd. 6<sup>th</sup> Floor  
CIDCO Bhavan, CBD Belapur,  
Place: Navi Mumbai

## ANNEXURE 2

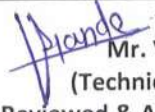
### **Sanitary and Hygiene Measures**

- Toilets are provided to construction workers.
- Separate storage tanks for storage of domestic and Drinking water have been provided.
- Solid waste is being disposed daily to municipal collection system.
- Separate arrangements for workers for having lunch. The provided separate area is maintained in hygiene point of view.
- Workers health will be regularly monitored and even Health insurance is provided.
- All construction activity will be followed strictly with guideline of safety measures to assure worker's health and safety.

# **ANNEXURE NO. 3**

AIR, NOISE, SOIL & WATER MONITORING REPORTS

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)  
 ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

| TEST REPORT                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                             |                         |                               |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------|------------|
| Test Report No: -                                                                                                                                                                                                                                                                                                                                                                                                | GESEC/PRO/AAQM/2022-23/11/2132                                                                                                                              |                         | Report Date                   | 14/11/2022 |
| Sample ID: -                                                                                                                                                                                                                                                                                                                                                                                                     | GESEC/PRO/AAQM/2022-23/11/2132                                                                                                                              |                         |                               |            |
| Name & Address of the Customer                                                                                                                                                                                                                                                                                                                                                                                   | M/s. CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME<br>Plot no. 1 and 2 sector 50 and 52 at Kamothe,<br>Navi Mumbai (Khandeshwar Creek Side) by CIDCO |                         |                               |            |
| Ambient Air Sample Details                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                             |                         |                               |            |
| Type                                                                                                                                                                                                                                                                                                                                                                                                             | Sampling Location                                                                                                                                           |                         | Sampling done by              |            |
| Ambient Air                                                                                                                                                                                                                                                                                                                                                                                                      | Near Main Gate                                                                                                                                              |                         | Nayansrushti Envirocare Group |            |
| Sampling Time                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                             |                         |                               |            |
| Start Time                                                                                                                                                                                                                                                                                                                                                                                                       | Stop Time                                                                                                                                                   |                         | Total Hrs.                    |            |
| 10:20 AM                                                                                                                                                                                                                                                                                                                                                                                                         | 18:20PM                                                                                                                                                     |                         | 8 Hrs.                        |            |
| Metrological Data/Environmental Conditions                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                             |                         |                               |            |
| Ambient Temperature °C                                                                                                                                                                                                                                                                                                                                                                                           | 35                                                                                                                                                          | Wet Bulb Temperature °C | 30                            |            |
| Dry Bulb Temperature °C                                                                                                                                                                                                                                                                                                                                                                                          | 34                                                                                                                                                          | Relative Humidity % RH  | 72                            |            |
| Date of Sampling                                                                                                                                                                                                                                                                                                                                                                                                 | Sample Receipt Date                                                                                                                                         | Analysis Start Date     | Analysis End Date             |            |
| 06/11/2022                                                                                                                                                                                                                                                                                                                                                                                                       | 07/11/2022                                                                                                                                                  | 07/11/2022              | 14/11/2022                    |            |
| Name Of Instrument                                                                                                                                                                                                                                                                                                                                                                                               | Combined Sampler                                                                                                                                            | Date Of Calibration     | 25/10/2022                    |            |
| Calibration Certificate No.                                                                                                                                                                                                                                                                                                                                                                                      | CC20222100006078F                                                                                                                                           | Due Date of Calibration | 24/10/2023                    |            |
| Parameters                                                                                                                                                                                                                                                                                                                                                                                                       | Method                                                                                                                                                      | Unit                    | NAAQ Standards                | Result     |
| Sulphur Dioxide (SO <sub>2</sub> )                                                                                                                                                                                                                                                                                                                                                                               | IS:5182 (PART 2):2017                                                                                                                                       | µg/m <sup>3</sup>       | ≤ 80                          | 08.2       |
| Nitrogen Dioxide (NO <sub>2</sub> )                                                                                                                                                                                                                                                                                                                                                                              | IS:5182 (PART 6):2018                                                                                                                                       | µg/m <sup>3</sup>       | ≤ 80                          | 14.5       |
| Particulate Matter PM <sub>10</sub>                                                                                                                                                                                                                                                                                                                                                                              | IS:5182 (PART 4):2019                                                                                                                                       | µg/m <sup>3</sup>       | ≤ 100                         | 51.2       |
| Particulate Matter PM <sub>2.5</sub>                                                                                                                                                                                                                                                                                                                                                                             | IS:5182 (PART 24):2019                                                                                                                                      | µg/m <sup>3</sup>       | ≤ 60                          | 29.3       |
| Ozone(O <sub>3</sub> ) For 1 Hrs.                                                                                                                                                                                                                                                                                                                                                                                | Method 411, Air Sampling and Analysis 3 <sup>rd</sup> Edition ,2013                                                                                         | µg/m <sup>3</sup>       | ≤ 180                         | 14.1       |
| Ammonia (NH <sub>3</sub> ) For 24 Hrs.                                                                                                                                                                                                                                                                                                                                                                           | Method 401, Air Sampling and Analysis 3 <sup>rd</sup> Edition ,2013                                                                                         | µg/m <sup>3</sup>       | ≤ 400                         | 5.75       |
| Carbon Monoxide (CO)                                                                                                                                                                                                                                                                                                                                                                                             | MASA-822 3rd Edition                                                                                                                                        | µg/M <sup>3</sup>       | ≤ 04                          | BDL        |
| Benzene (C <sub>6</sub> H <sub>6</sub> )                                                                                                                                                                                                                                                                                                                                                                         | IS 5182 (Part 11) :2006 (RA 2017)                                                                                                                           | µg/M <sup>3</sup>       | ≤ 05                          | BDL        |
| Benzo(a)Pyrene (BaP)                                                                                                                                                                                                                                                                                                                                                                                             | CPCB Manual Vol 1 2011                                                                                                                                      | ng/M <sup>3</sup>       | ≤ 01                          | BDL        |
| Arsenic (As)                                                                                                                                                                                                                                                                                                                                                                                                     | MASA-822 3rd Edition                                                                                                                                        | ng/M <sup>3</sup>       | ≤ 06                          | BDL        |
| Nickel (Ni)                                                                                                                                                                                                                                                                                                                                                                                                      | MASA-822 3rd Edition                                                                                                                                        | ng/M <sup>3</sup>       | ≤ 20                          | BDL        |
| Lead (Pb)                                                                                                                                                                                                                                                                                                                                                                                                        | MASA-822 3rd Edition                                                                                                                                        | µg/M <sup>3</sup>       | 1.00                          | BDL        |
| <b>Remark-</b> All above results are within National Ambient Air Quality standards.<br>➤ BDL – Below Detectable Limit.                                                                                                                                                                                                                                                                                           |                                                                                                                                                             |                         |                               |            |
| <div style="display: flex; justify-content: space-between; align-items: center;"> <div>  </div> <div> <br/> <b>Mr. Vinod Hande</b><br/>           (Technical Manager)<br/>           Reviewed &amp; Authorized By         </div> </div> |                                                                                                                                                             |                         |                               |            |

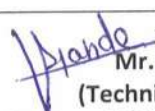
\*\*\*END OF REPORT\*\*\*

Page 1 of 1

## Terms and conditions

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
- Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
- We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.
- MoEF approved Lab by Govt. of India. From date 16/02/2022 to 29/02/2024.

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)  
ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

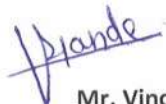
| TEST REPORT                                                                                                                                                                                                                                      |                                                                                                                                                             |                         |                               |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------|------------|
| Test Report No: -                                                                                                                                                                                                                                | GESEC/PRO/AAQM/2022-23/11/2133                                                                                                                              |                         | Report Date                   | 14/11/2022 |
| Sample ID: -                                                                                                                                                                                                                                     | GESEC/PRO/AAQM/2022-23/11/2133                                                                                                                              |                         |                               |            |
| Name & Address of the Customer                                                                                                                                                                                                                   | M/s. CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME<br>Plot no. 1 and 2 sector 50 and 52 at Kamothe,<br>Navi Mumbai (Khandeshwar Creek Side) by CIDCO |                         |                               |            |
| Ambient Air Sample Details                                                                                                                                                                                                                       |                                                                                                                                                             |                         |                               |            |
| Type                                                                                                                                                                                                                                             | Sampling Location                                                                                                                                           |                         | Sampling done by              |            |
| Ambient Air                                                                                                                                                                                                                                      | Project Site                                                                                                                                                |                         | Nayansrushti Envirocare Group |            |
| Sampling Time                                                                                                                                                                                                                                    |                                                                                                                                                             |                         |                               |            |
| Start Time                                                                                                                                                                                                                                       | Stop Time                                                                                                                                                   |                         | Total Hrs.                    |            |
| 10:50 AM                                                                                                                                                                                                                                         | 18:50 PM                                                                                                                                                    |                         | 8 Hrs.                        |            |
| Metrological Data/Environmental Conditions                                                                                                                                                                                                       |                                                                                                                                                             |                         |                               |            |
| Ambient Temperature °C                                                                                                                                                                                                                           | 34                                                                                                                                                          | Wet Bulb Temperature °C | 34                            |            |
| Dry Bulb Temperature °C                                                                                                                                                                                                                          | 31                                                                                                                                                          | Relative Humidity % RH  | 70                            |            |
| Date of Sampling                                                                                                                                                                                                                                 | Sample Receipt Date                                                                                                                                         | Analysis Start Date     | Analysis End Date             |            |
| 06/11/2022                                                                                                                                                                                                                                       | 07/11/2022                                                                                                                                                  | 07/11/2022              | 14/11/2022                    |            |
| Name Of Instrument                                                                                                                                                                                                                               | Combined Sampler                                                                                                                                            | Date Of Calibration     | 25/10/2022                    |            |
| Calibration Certificate No.                                                                                                                                                                                                                      | CC20222100006078F                                                                                                                                           | Due Date of Calibration | 24/10/2023                    |            |
| Parameters                                                                                                                                                                                                                                       | Method                                                                                                                                                      | Unit                    | NAAQ Standards                | Result     |
| Sulphur Dioxide (SO <sub>2</sub> )                                                                                                                                                                                                               | IS:5182 (PART 2):2017                                                                                                                                       | µg/m <sup>3</sup>       | ≤ 80                          | 08.4       |
| Nitrogen Dioxide (NO <sub>2</sub> )                                                                                                                                                                                                              | IS:5182 (PART 6):2018                                                                                                                                       | µg/m <sup>3</sup>       | ≤ 80                          | 21.4       |
| Particulate Matter PM <sub>10</sub>                                                                                                                                                                                                              | IS:5182 (PART 4):2019                                                                                                                                       | µg/m <sup>3</sup>       | ≤ 100                         | 52.4       |
| Particulate Matter PM <sub>2.5</sub>                                                                                                                                                                                                             | IS:5182 (PART 24):2019                                                                                                                                      | µg/m <sup>3</sup>       | ≤ 60                          | 28.5       |
| Ozone(O <sub>3</sub> ) For 1 Hrs.                                                                                                                                                                                                                | Method 411, Air Sampling and Analysis 3 <sup>rd</sup> Edition ,2013                                                                                         | µg/m <sup>3</sup>       | ≤ 180                         | 11.4       |
| Ammonia (NH <sub>3</sub> ) For 24 Hrs.                                                                                                                                                                                                           | Method 401, Air Sampling and Analysis 3 <sup>rd</sup> Edition ,2013                                                                                         | µg/m <sup>3</sup>       | ≤ 400                         | 6.35       |
| Carbon Monoxide (CO)                                                                                                                                                                                                                             | MASA-822 3rd Edition                                                                                                                                        | µg/M <sup>3</sup>       | ≤ 04                          | BDL        |
| Benzene (C <sub>6</sub> H <sub>6</sub> )                                                                                                                                                                                                         | IS 5182 (Part 11) :2006 (RA 2017)                                                                                                                           | µg/M <sup>3</sup>       | ≤ 05                          | BDL        |
| Benzo(a)Pyrene (BaP)                                                                                                                                                                                                                             | CPCB Manual Vol 1 2011                                                                                                                                      | ng/M <sup>3</sup>       | ≤ 01                          | BDL        |
| Arsenic (As)                                                                                                                                                                                                                                     | MASA-822 3rd Edition                                                                                                                                        | ng/M <sup>3</sup>       | ≤ 06                          | BDL        |
| Nickel (Ni)                                                                                                                                                                                                                                      | MASA-822 3rd Edition                                                                                                                                        | ng/M <sup>3</sup>       | ≤ 20                          | BDL        |
| Lead (Pb)                                                                                                                                                                                                                                        | MASA-822 3rd Edition                                                                                                                                        | µg/M <sup>3</sup>       | 1.00                          | BDL        |
| <b>Remark-</b> All above results are within National Ambient Air Quality standards.<br>➤ BDL – Below Detectable Limit.                                                                                                                           |                                                                                                                                                             |                         |                               |            |
| <div style="text-align: right;"> <br/> <b>Mr. Vinod Hande</b><br/>           (Technical Manager)<br/>           Reviewed &amp; Authorized By         </div> |                                                                                                                                                             |                         |                               |            |

\*\*\*END OF REPORT\*\*\*

**Terms and conditions**

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
- Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
- We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)  
ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

| TEST REPORT                                                                                                                                                                                                                                                                  |                                                                                                                                                          |                              |                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|
| Test Report No: -                                                                                                                                                                                                                                                            | GESEC/PRO/ANLM/2022-23/11/2134                                                                                                                           | Report Date                  | 14/11/2022                     |
| Sample ID: -                                                                                                                                                                                                                                                                 | GESEC/PRO/ANLM/2022-23/11/2134                                                                                                                           |                              |                                |
| Name & Address of the Customer                                                                                                                                                                                                                                               | M/s. CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME<br>Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO |                              |                                |
| Ambient Noise Sample Details                                                                                                                                                                                                                                                 |                                                                                                                                                          |                              |                                |
| Type                                                                                                                                                                                                                                                                         | Ambient Noise                                                                                                                                            |                              |                                |
| Sampling done by                                                                                                                                                                                                                                                             | Nayansrushti Envirocare Group                                                                                                                            |                              |                                |
| Standard method                                                                                                                                                                                                                                                              | As Per IS: 9989:2020                                                                                                                                     |                              |                                |
| Date of Sampling                                                                                                                                                                                                                                                             | Sample Receipt Date                                                                                                                                      | Analysis Start Date          | Analysis End Date              |
| 06/11/2022                                                                                                                                                                                                                                                                   | 07/11/2022                                                                                                                                               | 07/11/2022                   | 14/11/2022                     |
| Name Of Instrument                                                                                                                                                                                                                                                           | Digital Sound Level Meter                                                                                                                                | Date Of Calibration          | 10/10/2022                     |
| Calibration Certificate No.                                                                                                                                                                                                                                                  | ME.2021/10/21/002                                                                                                                                        | Due Date of Calibration      | 09/10/2023                     |
| Test Location                                                                                                                                                                                                                                                                | Unit                                                                                                                                                     | Average Noise Level Readings | MPCB Standards dB(A)           |
|                                                                                                                                                                                                                                                                              |                                                                                                                                                          | Day                          |                                |
| 1. Near Main Gate                                                                                                                                                                                                                                                            | dB(A)                                                                                                                                                    | 61.5                         | During Day time =<br>75 dB (A) |
| 2. Near Project Site                                                                                                                                                                                                                                                         | dB(A)                                                                                                                                                    | 72.3                         |                                |
| Remark-                                                                                                                                                                                                                                                                      |                                                                                                                                                          |                              |                                |
| <ul style="list-style-type: none"> <li>➤ All above Noise level results are within Maharashtra Pollution Control Board Standards limit.</li> <li>➤ Day -75dB</li> </ul>                                                                                                       |                                                                                                                                                          |                              |                                |
| <div style="text-align: right;"> <br/> <b>Mr. Vinod Hande</b><br/>                     (Technical Manager)<br/>                     Reviewed &amp; Authorized By                 </div> |                                                                                                                                                          |                              |                                |

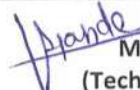
\*\*\*END OF REPORT\*\*\*



**Terms and conditions**

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
- Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
- We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)  
ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

| TEST REPORT                                                                                                                                                                                                                        |        |                                |         |                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------|---------|-------------------------------------------------|
| Test Report No – GESEC/PRO/DW/2022-23/11/2135                                                                                                                                                                                      |        | Date of Reporting              |         | 14/11/2022                                      |
| Sample ID - GESEC/PRO/DW/2022-23/11/2135                                                                                                                                                                                           |        | Sample Details                 |         | Drinking Water                                  |
| <b>Project Name and Address:</b><br><b>M/s. CONSTRUCTION OF AFFORDABLE HOUSING UNDER PMAY SCHEME</b><br><b>Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai (Khandeshwar Creek Side) by CIDCO</b>                         |        | Type of Sample                 |         | Water                                           |
|                                                                                                                                                                                                                                    |        | Volume Of Sample               |         | 2 Lit Plastic Can                               |
|                                                                                                                                                                                                                                    |        | Sample Status                  |         | Sealed                                          |
|                                                                                                                                                                                                                                    |        | Sample Collected By            |         | Nayansrushti Envirocare Group                   |
|                                                                                                                                                                                                                                    |        | Date of Sample Collection      |         | 06/11/2022                                      |
|                                                                                                                                                                                                                                    |        | Date of Sample received in lab |         | 07/11/2022                                      |
|                                                                                                                                                                                                                                    |        | Analysis start Date            |         | 07/11/2022                                      |
|                                                                                                                                                                                                                                    |        | Analysis End Date              |         | 14/11/2022                                      |
| WATER ANALYSIS REPORT                                                                                                                                                                                                              |        |                                |         |                                                 |
| Parameter                                                                                                                                                                                                                          | Result | Limits as per IS 10500:2012    | Unit(s) | Standard Method                                 |
| <b>Physical Parameter</b>                                                                                                                                                                                                          |        |                                |         |                                                 |
| Turbidity                                                                                                                                                                                                                          | <0.1   | Max1                           | NTU     | IS:3025(part10):2019                            |
| TDS                                                                                                                                                                                                                                | 104    | Max 500                        | mg/l    | IS :3025(part 16):2017                          |
| Color                                                                                                                                                                                                                              | <5     | Max 5                          | Hazen   | IS:3025 (part 4):2021                           |
| <b>Chemical Parameter</b>                                                                                                                                                                                                          |        |                                |         |                                                 |
| pH                                                                                                                                                                                                                                 | 7.1    | 6.5 to 8.5                     | --      | APHA 4500, 23 <sup>rd</sup> Edition:2017        |
| Total Hardness                                                                                                                                                                                                                     | 122    | Max 200                        | mg/l    | IS:3025 Part-21:2019                            |
| Total Alkalinity                                                                                                                                                                                                                   | 65     | Max 200                        | mg/l    | IS:3025 Part-23:2019                            |
| Sulphate                                                                                                                                                                                                                           | 5.10   | Max 200                        | mg/l    | IS:3025 Part-24:2019                            |
| Residual Chlorine                                                                                                                                                                                                                  | <0.1   | Min 0.2                        | mg/l    | IS:3025(part 26):2019                           |
| Chloride                                                                                                                                                                                                                           | 17.2   | Max 250                        | mg/l    | IS:3025 Part-32:2019                            |
| Calcium (as Ca)                                                                                                                                                                                                                    | 19.6   | Max 75                         | mg/l    | IS:3025 Part-40:2019                            |
| Magnesium (as Mg)                                                                                                                                                                                                                  | 8.5    | Max 30                         | mg/l    | APHA 3500- Mg, B, 23 <sup>rd</sup> Edition:2017 |
| <b>Elemental Analysis</b>                                                                                                                                                                                                          |        |                                |         |                                                 |
| Iron as Fe                                                                                                                                                                                                                         | <0.1   | Max 0.3                        | mg/l    | IS:3025(part 2):2019                            |
| <b>Microbiological Parameter</b>                                                                                                                                                                                                   |        |                                |         |                                                 |
| Total Coliform                                                                                                                                                                                                                     | Absent | Absent                         | /100ml  | IS 1622:1981                                    |
| E.coli.                                                                                                                                                                                                                            | Absent | Absent                         | /100ml  | IS 1622:1981                                    |
| <b>Remark(s):</b><br>➤ The above water sample is Comply with required limit as per IS 10500:2012.                                                                                                                                  |        |                                |         |                                                 |
| <div style="text-align: right;"> <br/> <b>Mr. Vinod Hande</b><br/> <b>(Technical Manager)</b><br/> <b>Reviewed &amp; Authorized By</b> </div> |        |                                |         |                                                 |

\*\*\*END OF REPORT\*\*\* PUNE



**Terms and conditions**

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
- Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
- We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.
- MnEF approved Lab by Govt. of India. From date: 16/02/2022 to 29/02/2024.

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)  
 ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

**TEST CERTIFICATE**

Report Number-GESEC/PRO/SL/2022-23/11/2136

Project Name and Address:

 M/s. CONSTRUCTION OF AFFORDABLE HOUSING UNDER  
 PMAY SCHEME

 Plot no. 1 and 2 sector 50 and 52 at Kamothe, Navi Mumbai  
 (Khandeshwar Creek Side) by CIDCO

Date of Reporting

14/11/2022

Sample Details

Soil

Nature of sample

Solid

Date of Sampling

06/11/2022

Date of Sample Registration

07/11/2022

Date of Analysis

07/11/2022

Sample Collected &amp; Analyzed by

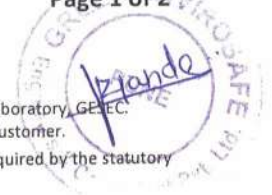
Nayansrushti Envirocare Group

**SOIL ANALYSIS REPORT**

| Sr. No. | Parameter                | Unit (s)           | Location     | Analysis Method                                                                                                                                  |
|---------|--------------------------|--------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
|         |                          |                    | Project Site |                                                                                                                                                  |
| 1.      | Colour                   | -                  | Black Brown  | IS 2720                                                                                                                                          |
| 2.      | Grain Size Distribution  | Sand %             | 7.1          | Soil Testing in India,<br>Department of Agriculture & Corporation<br>Ministry of Agriculture                                                     |
|         |                          | Silt%              | 10           |                                                                                                                                                  |
|         |                          | Clay %             | 72           |                                                                                                                                                  |
| 3.      | Texture Class            |                    | Soft         | IS 2720                                                                                                                                          |
| 4.      | Bulk Density             | gm/cm <sup>3</sup> | 0.61         | IS 2720 (Part 29)2020                                                                                                                            |
| 5.      | Permeability             | cm/hr              | 0.02         | IS: 2720 (Part 17)                                                                                                                               |
| 6.      | Water Holding capacity   | %                  | 61           | ICARDA -3rd Edition methods of soil, plant,<br>and water analysis: A manual for the west<br>Asia and North Africa region page no.28-29           |
| 7.      | Porosity                 | %                  | 38.55        | IS 2720                                                                                                                                          |
| 8.      | pH                       | --                 | 7.47         | IS 2720 (Part 26, Rev.2: 2016                                                                                                                    |
| 9.      | Electrical Conductivity  | μS/cm              | 218.3        | IS 14767: 2021                                                                                                                                   |
| 10.     | Cation Exchange Capacity | meq/ 100gm         | 3.2          | Methods Manual, Soil Testing in India (Dept.<br>of Agriculture and Cooperation, Ministry of<br>Agri. Government of India, Page No.74-<br>75,2011 |
| 11.     | Exchangeable Calcium     | meq/L              | 19.4         | ICARDA -3rd Edition methods of soil, plant,<br>and water analysis: A manual for the west<br>Asia and North Africa region page no.113-116         |
| 12.     | Exchangeable Magnesium   | meq/L              | 3.6          |                                                                                                                                                  |
| 13.     | Exchangeable Potassium   | ppm                | 8.2          | ICARDA -3rd Edition methods of soil, plant,<br>and water analysis: A manual for the west<br>Asia and North Africa region page no.110             |
| 14.     | Exchangeable Sodium      | ppm                | 4.61         | ICARDA -3rd Edition methods of soil, plant,<br>and water analysis: A manual for the west<br>Asia and North Africa region page no.113             |
| 15.     | Sodium Absorption Ratio  | -----              | 1.01         | IS 2720                                                                                                                                          |
| 16.     | Nitrogen (N)             | mg/Kg              | 151.2        | IS 14684:1999                                                                                                                                    |

**Terms and conditions**

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
- Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
- We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.



Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)  
ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

|     |                              |       |       |                                                                                                                                     |
|-----|------------------------------|-------|-------|-------------------------------------------------------------------------------------------------------------------------------------|
| 17. | Available Phosphorous (P)    | Kg/ha | 17.02 | ICARDA Method of soil, plant and water analysis Page No. 101-102                                                                    |
| 18. | Available Potassium          | Kg/ha | 9.42  | Methods Manual, Soil Testing in India (Dept Of Agriculture and Cooperation, Ministry Of Agri. Government of India, page No.99: 2011 |
| 19. | Organic Carbon               | %     | 1.30  | IS 2720-P22                                                                                                                         |
| 20. | Organic Matter               | %     | 2.55  | IS 2720 (Part 22):2020                                                                                                              |
| 21. | Water Soluble Chloride (Cl)  | meq/1 | 122   | ICARDA -3rd Edition methods of soil, plant, and water analysis: A manual for the west Asia and North Africa region page no.118-119  |
| 22. | Water Soluble Sulphate (SO4) | mg/kg | 30.1  | IS:1720 (Part 27).1975                                                                                                              |
| 23. | Aluminum (Al)                | ppm   | 233.5 | USPEA/SE/846/7000B                                                                                                                  |
| 24. | Total Iron (Fe)              | ppm   | 311.4 |                                                                                                                                     |
| 25. | Manganese (Mn)               | ppm   | 8.01  |                                                                                                                                     |
| 26. | Boron (B)                    | ppm   | 0.040 |                                                                                                                                     |
| 27. | Zinc ( Zn)                   | ppm   | 1.20  |                                                                                                                                     |
| 28. | Total Chromium (Cr)          | ppm   | 0.65  |                                                                                                                                     |
| 29. | Lead (Pb)                    | ppm   | 0.210 |                                                                                                                                     |
| 30. | Nickel (Ni)                  | ppm   | 0.622 |                                                                                                                                     |
| 31. | Arsenic (As)                 | ppm   | 0.105 |                                                                                                                                     |
| 32. | Mercury (Hg)                 | ppm   | 0.078 |                                                                                                                                     |
| 33. | Cadmium (Cd)                 | ppm   | 0.044 |                                                                                                                                     |
| 34. | Barium as (Ba)               | ppm   | 0.096 |                                                                                                                                     |
| 35. | Selenium (Se)                | ppm   | 0.075 |                                                                                                                                     |
| 36. | Copper (Cu)                  | ppm   | 1.40  |                                                                                                                                     |

**Mr. Vinod Hande**  
(Technical Manager)  
Reviewed & Authorized By

\*\*\*END OF REPORT\*\*\*



Page 2 of 2

## Terms and conditions

1. The report is refer only to the sample tested and not applies to the bulk.
2. The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
3. The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
4. Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
5. We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.
6. Not to be used as evidence in Court of India from date 16/02/2022 to 29/02/2024.

## ANNEXURE NO. 4 Local News Paper Advertisement Copy

**बवशक्ति**  
मुंबई, बुधवार, १२ ऑगस्ट २०२०

**सिडको**  
शहरांचे शिल्पकार

**पर्यावरणविषयक मंजूरी**

सर्व संबंधितांना कळविण्यात येत आहे की, राज्य पर्यावरण प्रभाव मूल्यांकन प्राधिकरण, महाराष्ट्र (एसईआयए) यांच्यातर्फे, प्रधानमंत्री आवास योजने अंतर्गत साकारण्यात येत असलेल्या गृहनिर्माण योजनेच्या खालील बांधकाम स्थळांना पर्यावरणविषयक मंजूरी देण्यात आली असून सदर पर्यावरणविषयक मंजूरी पत्राच्या प्रती या महाराष्ट्र प्रदूषण नियंत्रण मंडळ यांचेकडे तसेच <https://parivesh.nic.in> या संकेतस्थळावर व सिडकोच्या संकेतस्थळावरही पाहण्याकरिता उपलब्ध आहेत.

| अ. क्र. | बांधकाम स्थळाचे नाव                                                                                                       | तारखेसह एसईआयए यांच्या पर्यावरणविषयक मंजूरी पत्राचा संदर्भ क्रमांक |
|---------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| १       | भूखंड क्र. ०२, सेक्टर-५० व भूखंड क्र. ०१, सेक्टर-५२, खांदेश्वर रेल्वे स्थानकाजवळ (खाडीच्या बाजूस), कामोठे नोड, नवी मुंबई. | एसआयए/एमएच/एमआयएस/५३१८७/२०२० दिनांक ०८.०२.२०२०                     |

CIN - U99999 MH 1970 SGC-014574  
[www.cidco.maharashtra.gov.in](http://www.cidco.maharashtra.gov.in)

अधीक्षक अभियंता (गृहनिर्माण-१)  
सिडको/जनसंपर्क/०७७/२०२०-२१

**THE FREE PRESS JOURNAL**  
MUMBAI | WEDNESDAY | AUGUST 12, 2020

**CIDCO**  
WE MAKE CITIES

**ENVIRONMENTAL CLEARANCE**

This is to inform to all concern that the State Environment Impact Assessment Authority (SEIAA), Maharashtra has granted Environmental Clearance to following sites under PMAY Housing Scheme & copy of Environmental clearance letters are available with Maharashtra Pollution Control Board and may also be seen at website at <http://parivesh.nic.in> & is also available at CIDCO website.

| S. N. | Name of site Location                                                                            | Reference No. of SEIAA sanction letter for EC with date |
|-------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 1     | Plot No. 2, Sector-50, Near Khandeshwar Railway Station, (Greek side) Kamothe Node, Navi Mumbai. | SIA/MH/MIS/51387/2020 dated 08.07.2020                  |

Superintending Engineer  
(Housing -I)  
CIDCO/PR/077/2020-21

CIN - U99999 MH 1970 SGC-014574  
[www.cidco.maharashtra.gov.in](http://www.cidco.maharashtra.gov.in)

# **ANNEXURE NO. 5**

EC copy Submission to local authority & NGO

**CITY AND INDUSTRIAL DEVELOPMENT CORPORATION OF MAHARASHTRA LIMITED**

(CIN - U99999 MH 1970 SGC - 014574)

**REGD. OFFICE:**

"NIRMAL", 2nd Floor, Narlman Point,  
Mumbai - 400 021.  
PHONE : 00-91-22-6650 0900  
FAX : 00-91-22-2202 2509

**HEAD OFFICE:**

CIDCO Bhavan, CBD Belapur,  
Navi Mumbai - 400 614.  
PHONE: 00-91-22-6791 8100  
FAX : 00-91-22-6791 8166

**Ref. No.**

CIDCO/EE(TP-I)/2020/ - 218

**Date :**

14.07.2020

To,  
M/s. Nayansrushti Foundation,  
Shop No. 32/1, Fl No.10,  
Sharda Complex, Ambegaon Bk,  
Pune, Maharashtra,  
India, 411046.

Sub: Regarding submission of Environment clearance copy.

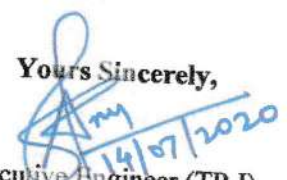
Dear Sir,

We M/s, City & Industrial Development Corporation of Maharashtra LTD. (M/s. CIDCO LTD.) are developer of PMAY housing scheme. The construction project is located at Plot No. 01 and 02, Sector-50 & 52, Kamothe Node, Navi Mumbai (Package-III), Khandeshwar (Creek side), Taluka-Panvel, Dist.-Raigad, State- Maharashtra. An Environment clearance (EC) for our project was accorded by the Environment Department, Maharashtra vide clearance letter EC letter No. SIA/MH/MIS/53187/2020, granted date - 08.07.2020.

As per specific conditions mentioned in the Environmental clearance (EC) we have to submit EC copy to Local NGO and submit acknowledgment copy to member secretary, SEIAA. Accordingly, we hereby submit the EC copy to you for reference. This for your information and record please.

Thanking you,

Yours Sincerely,

  
Executive Engineer (TP-I)  
CIDCO Ltd., 4<sup>th</sup> Floor, Raigad Bhavan,  
CBD Belapur - 400 614.  
(Project Proponent)



  
Received  
16/07/2020