



**GREATER MOHALI AREA DEVELOPMENT AUTHORITY
PUDA BHAWAN, SECTOR-62, SAS Nagar**

To

The Joint Director
Ministry of Environment, Forest & Climate Change,
Regional Office (North)
Government of India,
Bay No. 24-25, Sector - 31 A,
Chandigarh.

DW. 3741

dt 21.5.19


Subject:- Submission of six monthly compliance report for period ending 31.03.2018 for the project "Ecocity Phase-II located at Mullanpur, New Chandigarh, Distt. SAS Nagar (Mohali), Punjab by M/s. Greater Mohali Area Development Authority.

With reference to the EIA Notification & its amendments regarding submission of six monthly compliance report. We are hereby submitting the six monthly compliance report for period ending 31.03.2018 for the above said project in soft copy in compact disk (CD) of the compliance report for your perusal.

Kindly acknowledge the receipt of the same.

Thanking you.


Sincerely


Name- Er. Varun Garg
Contact No.- 9888668494
Designation-Divisional Engineer (PH-2), GMADA, SAS Nagar
Email-varungarg245@yahoo.com

CC:

- 1) Member Secretary, SEJAA Punjab, Directorate of Environment & Climate Change, GTO Punjab State Council for Science & Technology, MGSIPTA Complex, Sector - 26 Chandigarh - 160019.

Received


भारत सरकार / Govt. of India
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min. of Environment, Forests & Climate Change
ब्लॉक नं. 24-25, सेक्टर 31-ए
Bays No. 24-25, Sec- 31 A
चंडीगढ़/Chandigarh



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✓ cc: Dno : 3742

Dt 21.5.2019

- 1) Member Secretary, SEIAA Punjab, Directorate of Environment & Change, C/O Punjab State Council for Science & Technology, MGSIPA complex, Sector-26, Chandigarh - 160019.

Received
27/5/19

2018

**SIX MONTHLY COMPLIANCE
REPORT
(Period ending 31.03.2018)**

F
OR
For

**“Area Development project-
Ecocity Phase-II”**

Village Mullanpur, New Chandigarh, Distt. SAS Nagar
(Mohali), Punjab.

**Project By:
M/s. Greater Mohali Area
Development Authority (GMADA)
Sector-62, SAS Nagar (Mohali), Punjab.**

Prepared by:



Eco Laboratories and Consultants Private Limited
E-207, Industrial Area, Phase-VIII B (Sector-74), SAS Nagar (Mohali)
Punjab.

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**Ministry of Environment Forests & Climate Change
Northern Regional Office**

**Chandigarh-160030
Data sheet**

1	Project Type	Area Development project
2	Name of the Project	Ecocity Phase-II at Mullanpur, New Chandigarh by M/s Greater Mohali Area Development Authority
3	Clearance letter (s) O.M. No. & Date	Environment Clearance has been granted vide Letter No. SEIAA/2835 dated 28.06.2016; Copy of the same is attached along as Annexure 1.
4	Location	Mullanpur, New Chandigarh
	a) District(s)	SAS Nagar (Mohali)
	b) State (s)	Punjab
	c) Latitudes/ Longitudes	30 ⁰ 50' 15.31" N, 76 ⁰ 43' 01.75" E
5	Address for correspondence	The Divisional Engineer (PH-2), Greater Mohali Area Development Authority, PUDA Bhawan, Sector-62, Mohali
6	Salient features	
	a) Of the Project	The total land area of the project is 312.12 acres. The project consists of residential plotted area, group housing area, commercial area, public building area, EWS housing area, Green area, School area, Bus terminal area, Rehri market, utilities etc.
	b) Of the environment	The total water requirement for the project will be 5247 KLD, out of which 3672.9 KLD will be met through Bhakra mainline canal(Kajauli waterworks line) 421.1KLD through tube wells and 1153 KLD will be met through recycling of treated wastewater. The total wastewater generation from the project will be 4838 KLD which will be treated in a STP of capacity 5000 KLD to be installed within the project premises. The total quantity of solid waste to be

		<p>generated from the project has been estimated as 10.7 MT/day which will be segregated at source as biodegradable and non-biodegradable components.</p> <p>The total load of electricity required for group housing will be 10.3 MVA which will be provided by Punjab State Power Corporation Limited (PSPCL).</p>
7	Breakup of the Project Area	
	a)Submergence area	Not Applicable.
	b)Others	Not Applicable.
8	Break up of project affected population with enumeration of those losing houses/dwelling units only, agricultural land only both dwelling units and agricultural land and landless laborers/land landless laborers / artisans.	Not Applicable.
a	SC/ST/ Adivasis	Not Applicable.
b	Others (Please indicate whether these figures are base on any scientific and systematic survey carried out or only provisional figures. if a survey has been carried out give details and year of survey)	Not Applicable.
9	Financial details	
	a) Project cost as originally planned and subsequent revised estimates and the year of price reference.	Rs 99.56 Crores (excluding land cost)
	b) Allocations made for environmental management please with item wise and year of assessment.	Rs. 865 lacs will be incurred for implementation of EMP on account of capital cost and Rs. 32 lacs per annum will be incurred on account of recurring charges.
	c) Benefit cost ratio/Internal rate of return and year of assessment.	Will be calculated & submitted.
	d) Whether (c) includes the cost of environmental management as shown in (b) above.	Yes

	e) Actual expenditure incurred on the project so far.	Actual expenditure incurred on the project is Rs. 32.13 Crores till 31 st March, 2018.
	f) Actual expenditure incurred on Environment management Plan so far	No expenditure has been done on environmental management plan so far. As, no major construction work has not been started at project site, except construction of the peripheral roads
10	Forest lands requirement:	
	a) The status of approval for diversion of forest land for non-forestry use.	Not Applicable.
	b) The status of clear felling.	Not Applicable.
	c) The status of compensatory a forestation programmer 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 reservoir, approach road) if any, with quantitative information.	Not Applicable.
12	Status of construction	
	a) Date of commencement (actual and /or planned)	20-12-2016
	b) Date of completion (actual and/or planned)	30-05-2019 Photographs showing construction status are enclosed as Annexure-2.
13	Reasons for the delay if the project is yet to start:	Not Applicable.

**Compliance report on conditions imposed in Environmental Clearance for the period
ending 31.03.2018**

PART-A – Common conditions for all the three phases i.e. Pre-Construction Phase, Construction Phase and Operation Phase & Entire Life:

S.No.	EC Conditions	Reply
i	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Agreed.
ii	A first aid room will be provided in the project both during construction and operation phase of the project.	Agreed. First Aid kit has been provided at the construction site.
iii	Construction/ provision of the STP, solid waste , e-waste, hazardous waste ,storage facilities tube well, DG sets, Utilities etc, earmarked by the project proponent on the layout plan, should be made in the earmarked area only. In any case the position/ location of these utilities should not be changed later-on.	Agreed.
iv	The environmental safeguards contained in the application of the promoter / mentioned during the presentation before State Level Environment Impact Assessment Authority/State Expert Appraisal Committee should be implemented in letter and spirit.	Agreed. Environmental safeguards are being implemented in true letter and spirit
v	Ambient air & noise levels should confirm to prescribed standards both during day and night. Incremental pollution loads on the ambient air quality, noise especially during worst noise generation activities, water quality and soil should be periodically monitored during construction phase as well as operation and entire life phase as per the MoEF & CC guidelines and all the migration measures should be	Ambient noise level conforms to the prescribed standards. Recent test reports are enclosed along as Annexure 3 .

	taken to bring down the levels within the prescribed standards.	
vi	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department , Civil Aviation Department, Forest (Conservation) Act , 1980 and Wildlife (Protection) Act ,1972 etc. shall be obtained, by project proponents from the competent authorities including Punjab Pollution Control Board and from other statutory bodies as applicable.	Agreed. All required approvals are being obtained as and when required.
vii	The State Environment Impact Assessment Authority, Punjab reserves the right to add additional safeguards/measures subsequently, if found necessary, and to take action including revoking of the environmental clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguards/ measures in a time bound and satisfactory manner.	Agreed.
viii	A proper record showing compliance of all the conditions of environmental clearance shall be maintained and made available at site at all the times.	Agreed.
ix	The project proponent shall also submit half yearly compliance reports in respect of the stipulated prior environmental clearances terms & conditions including results of monitored data (both in hard & soft copies) to the respective Regional office of MoEF, the Zonal Office of CPCB and the SPCB/SEIAA, Punjab on 1 st June and 1 st December of each calendar year.	Agreed. The six monthly reports are submitted in time.
x	Officials from the regional office of Ministry and Environment & Forests, Chandigarh/State Level Environment Impact Assessment Authority/State Level	Agreed. Full cooperation, facilities and documents/ data will be given to the Officials from the Regional Office of Ministry of Environment & Forests,

	Expert Appraisal Committee/Punjab Pollution Control Board who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents /data by the project proponents during their inspection. A complete set of all the documents submitted to State Level Environment Impact Assessment Authority should be forwarded to APCCF, Regional Office of Ministry of Environment & Forests, Chandigarh.	Chandigarh/ State Level Environment Impact Assessment Authority/ State Level Expert Appraisal Committee/ Punjab Pollution Control Board during their inspection.
xi	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by State Level Environment Impact Assessment Authority, Punjab.	Agreed.
xii	Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa foundation Vs. Union of India in Write Petition (Civil) no. 460 of 2004 as may be applicable to this project and decisions of any competent Court, to the extent applicable.	Agreed. EC letter will be uploaded on the website.
xiii	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 & CC, SEIAA, Punjab the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels for all the parameters of NAAQM standard shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Agreed.
xiv	The inlet and outlet point of natural drain system should be maintained with adequate size of channel for ensuring	Agreed. It will be complied.

	unrestricted flow of water.	
xv	The unpaved area shall be more than or equal to 20% of the recreational open spaces.	Agreed. It will be complied.

PART-B – Specific Conditions:

I. Pre-Construction Phase

S.No.	EC Conditions	Reply
i	"Consent to establish" shall be obtained from Punjab Pollution Control Board under Air (Prevention & Control of Pollution) Act 1981 and Water (Prevention & Control of Pollution) Act 1974 and a copy of the same shall be submitted to the Ministry of Environment & Forests / State level Environment Impact Assessment Authority before the start of any construction work at the site.	Consent to establish has been applied to Punjab Pollution Control Board and acknowledgment of the same is attached along as Annexure-4 .
ii	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	The required hygienic and safety measures are maintained throughout the construction period.
iii	The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of firefighting equipments, etc. as per National Building Code including protection measures from lightening.	Agreed.
iv	Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile STP, disposal of waste water & Solid waste in an environmentally sound manner, safe drinking water, medical health care,	Agreed. All necessary facilities such as safe drinking water, medical health care, etc. are being provided to the laborers.

	crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	
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II. Construction Phase:

S.No.	EC Conditions	Reply
i	All the top soil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.	Agreed. Top soil excavated during construction activities are being stored & used for landscaping.
ii	Disposal of muck during construction phase should not create any adverse effect on the neighboring 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. The project proponent will comply with the provisions of Construction & Demolition Waste Rules, 2016. Dust, smoke & debris prevention measures such wheel washing, screens, barricading and debris chute shall be installed at the site during construction including plastic/tarpaulin sheet covers for trucks bringing in sand & material at the site.	Agreed. Dust mitigation measures are proposed like water sprinkling is followed so that there is minimum impact on the environment.
iii	Construction spoils, including bituminous material and other hazardous material will be disposed off as per Construction and Demolition Waste Management Rules, 2016.	Agreed. Construction spoils are being kept to minimum so that there is no contamination of the ground water resources.
iv	Vehicles hired for bringing construction materials to the site and other machinery to be used during construction should be in good condition and should conform to applicable air and noise emission standards.	Agreed. Vehicles hired for the construction material to the site are being monitored regularly and have valid PUC certificates.

v	The Project Proponent shall use only treated/ sewage wastewater for construction activities and no fresh water for this purpose will be used. A proper record in this regard should be maintained and available at site.	Agreed.
vi	Fly ash based construction material shall be used in the construction as per the provisions of Fly Ash Notification of September,1999 and as amended on August,2003 and notification No. S.O. 2804 (E) dated 03.11.2009.	Agreed. RMC Cement is being used which is constituted of Fly Ash.
vii	Water demand during construction should be reduced by use of ready mixed concrete, curing agents and other best practices.	Agreed and accepted.
viii	Adequate treatment facility for drinking water shall be provided, if required.	Agreed.
ix	The project proponent shall provide electromagnetic flow meter at the outlet of the water supply, outlet of the STP and any pipeline to be used for re-using the treated wastewater back into the system for flushing and for horticulture purpose/green etc.	Agreed. Electromagnetic flow meter will be provided at the outlet of the water supply & STP.

x	<p>(i)The Project Proponent will provide dual plumbing system for supplying the fresh water for portable purposes and treated wastewater for flushing purposes etc. and color coding of different pipe lines carrying water/wastewater/ treated wastewater as follows.</p> <p>a. Fresh water : Blue b. Untreated water : Black c. Treated wastewater : Green (for reuse) d. Treated wastewater : Yellow (for discharge) e. Storm water: : Orange</p> <p>(ii) The project proponent shall ensure that the allottees of plots in the project area provide dual plumbing system in their individual houses so as to use the treated wastewater for flushing and other non-portable purposes.</p>	<p>Agreed. Dual plumbing system for reuse of treated wastewater for flushing is being provided.</p> <p>After completion of construction work, plot owners will install their individual STP's to treat the wastewater.</p>
xi	<p>The project proponent will ensure that the allottees provide fixtures for shower, toilet flushing and drinking should be low flow either by use of aerators or pressure reducing devices or sensor based control.</p>	<p>Agreed.</p>
xii	<p>(a) Adequate steps shall be taken to conserve energy and taking measures as prescribed under the Energy conservation building Code and National Building Code, 2005 on Energy Conservation.</p> <p>(b) Solar lights shall be provided as proposed for illumination of common areas.</p>	<p>Agreed.</p>
xiii	<p>Diesel generator sets to be used during construction phase should confirm to provisions of Diesel Generator Set Rules prescribed under the Environment (Protection) Act, 1986.</p>	<p>Agreed. Silent DG sets will be used during construction phase.</p>

xiv	Separate wet & dry bins at ground level and for common areas for facilitating segregation of waste , collection centre and mechanical composter (with a minimum capacity of 0.3kg/tenement/day) shall be provided for proper collection, handling, storage, segregation, treatment and disposal of solid waste.	Agreed.
xv	A rainwater harvesting plan shall be designed where the re-charge bores (minimum one per 5000sqm of build up area) shall be provided. Recharging wells for roof top run-off shall have provision of adequate treatment for removing suspended matter etc. before recharging as per the CGWA guidelines. Run-off from areas other than roof top such as green areas and roads/pavement etc. may also be recharged but only after providing adequate treatment to remove suspended matter, oil &grease etc. and ensuring that rainwater being recharged from these areas is not contaminated with pesticides , insecticides, chemical fertilizer etc.	Agreed. As the project is in construction phase, rain water recharge structures will be provided.
xvi	Green belt of adequate width as proposed shall be provided so as to achieve attenuation factor conforming to the day & night standards prescribed for residential land use. The open spaces inside the premises should be suitably landscaped and covered with vegetation of indigenous species/variety. A minimum of one tree for every 80 sqm of land shall be planted and maintained. The existing trees may be counted for this purpose. Preference should be given to planting a native species where the trees need to be cut compensatory plantation in the ratio of 1:3 (i.e. planting of three trees for every one tree that is cut) shall be done with the	Agreed. Green belt of adequate width has been provided to small extent as the project is in construction phase. Photographs showing the same are enclosed as Annexure 2 .

	obligation to continue maintenance. Trees species to be planted shall be strictly as per SEIAA guidelines.	
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III. Operation Phase and Entire Life

S.No.	EC Conditions	Reply																
i	"Consent to operate" shall be obtained from Punjab Pollution Control Board under Air (Prevention and Control of Pollution) Act, 1981 and Water (Prevention and Control of Pollution) Act, 1974 and a copy of the same shall be submitted to the Ministry of Environment and Forests/State Level Environment Impact Assessment Authority at the time of start of operation.	Agreed. Consent To Establish has been applied to PPCB and acknowledgment of the same is enclosed as Annexure 4 .																
ii	The total water requirement for the project will be 5247KL/day, out of which 3672.9KL/day shall be met through Bakhra Mainline Canal(Kajauli water works line), 421.1KL/day through own tube well and remaining 1153KL/day through recycling of treated wastewater .	Agreed.																
iii	<p>a) The total waste water generation from the project will be 1224KL/day, which shall be treated in existing STP of capacity 1500KL/day. As proposed , reuse of treated wastewater @1200KLD and discharge of surplus treated wastewater shall be as below:</p> <table border="1"> <thead> <tr> <th>Season</th> <th>Reuse for flushing (KLD)</th> <th>For irrigation purposes (KLD)</th> <th>Discharge into 83.12 acre plantation purpose</th> </tr> </thead> <tbody> <tr> <td>Summer</td> <td>1153</td> <td>768</td> <td>2820</td> </tr> <tr> <td>Winter</td> <td>1153</td> <td>251</td> <td>3337</td> </tr> <tr> <td>Rainy</td> <td>1153</td> <td>70</td> <td>3518</td> </tr> </tbody> </table> <p>b) Storage tank of adequate capacity shall</p>	Season	Reuse for flushing (KLD)	For irrigation purposes (KLD)	Discharge into 83.12 acre plantation purpose	Summer	1153	768	2820	Winter	1153	251	3337	Rainy	1153	70	3518	Agreed and the same will be implemented.
Season	Reuse for flushing (KLD)	For irrigation purposes (KLD)	Discharge into 83.12 acre plantation purpose															
Summer	1153	768	2820															
Winter	1153	251	3337															
Rainy	1153	70	3518															

	<p>be provided for the storage of treated wastewater and all efforts shall be made to supply the same for construction purposes. Only, the surplus treated wastewater shall be discharged into sewer after maintaining the proper record.</p> <p>c) The project proponent will develop at least 83.12 acre of land (available for future expansion) with eucalyptus plantation as per the Karnal technology for the discharge of its surplus (after reuse for flushing and horticulture purposes) treated wastewater till such time the trunk sewer is laid by GMADA and connectivity of the project sewer is made with the trunk sewer.</p>	
iv	The project proponent shall ensure safe drinking water supply to the habitants.	Adequate treatment i.e. chlorination for drinking water supply is provided. Further flat owners have their own RO system.
v	The wastewater generated from swimming pool(s) shall not be discharged and the same will be reused within the premises for purposes such as horticulture, HAVC etc.	Agreed.
vi	A proper record regarding groundwater abstraction, water consumption, its reuse and disposal shall be maintained on daily basis and shall maintain a record of readings of each such meter on daily basis.	Agreed.
vii	Rainwater harvesting/ recharging systems shall be operated and maintained properly as per CGWA guidelines.	Agreed. Rain water recharging pits will be provided at site for recharging of the ground water.
viii	The facilities provided for collection, segregation, handling, on site storage and processing of solid waste such as wet and dry bins, collection centre& mechanical composter etc. shall be properly maintained. The collected solid waste shall be aggregated at this site. The recyclable solid waste shall be sold out to the authorized vendors for which a written tie-up must be	Agreed. Proper Solid Waste Management will be done.

	done with the authorized recyclers. Organic waste shall be composed by mechanical composter with a minimum capacity of 0.3kg/tenement/day and the inert solid waste shall be sent to the concerned collection centre of integrated municipal solid waste management facility of the area. A proper record in this regard shall be maintained.	
ix	Hazardous waste/E-waste should be disposed off as per rules applicable, and with the necessary approval of the Punjab Pollution Control Board.	As it is an area development project .So, no biomedical or hazardous waste is being generated. Only spent oil from DG sets will be generated, which will be sold to authorized recyclers.
x	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.	Agreed. Wide roads for the entry and exit are provided. Parking areas are fully internalized. There is no traffic congestion.
xi	The project proponent before allowing any occupancy shall obtain completion certificate from the Competent Authority to the effect that all the development works have been completed as per the proposals submitted and submit a copy of the same to SEIAA, Punjab. The project proponent shall further ensure that the individual allottees obtain completion certificate from the Competent Authority before allowing them to occupy the house.	Agreed.
xii	The Green belt along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use.	Adequate green area has been provided within the project premises. Photographs showing the green area are attached along as Annexure 2 .
xiii	Solar power plant and other solar energy related equipments shall be operated and maintained properly.	Agreed. LED lights will be used in the project to save energy. Solar panels will be provided common area lighting.
xiv	Environmental Management Cell shall be formed during operation phase which will supervise and monitor the environment related aspects of the project.	Agreed.

PART-C General Conditions:

I. Pre- Construction Phase

S.No.	EC Conditions	Reply
i	This Environmental clearance will be valid for a period of seven years from the date of its issue or till the completion of the project, whichever is earlier.	Agreed. Environment Clearance has been granted vide Letter No. SEIAA/2835 dated 28.06.2016; Copy of the same is attached along as Annexure 1 .
ii	The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded environmental clearance and copies of clearance letters are available with the Punjab Pollution Control Board. The advertisement should be made within seven days from the day of issue of the clearance letter and a copy of the same should be forwarded to the Regional office, Ministry of Environment & Forests, Chandigarh and SEIAA, Punjab.	Agreed. Advertisement has been published in the newspaper.
iii	The project proponent shall obtain permission from the CGWA abstraction of groundwater & digging of bore well(s) and shall not abstract any groundwater without prior written permission of the CGWA, even if any bore well(s) exist at site.	Agreed. The same will be obtained.
iv	The project proponent shall obtain CLU from the competent authority.	Agreed.
v	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local body and the local NGO, if any, from whom suggestions representation, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Agreed.

II. Construction & Operation Phase and Entire Life Phase

S.No.	EC Conditions	Reply
i	<p>The project proponent shall adhere to the commitments made in the Environment Management plan for the construction and operation phase & Corporate Social Responsibility and shall spend amount Rs. 32.35crores for following activities under corporate social responsibility:</p> <ul style="list-style-type: none"> ➤ Rs. 2.0 crore will be spent on utility services in village Hoshiarpur. ➤ Rs. 3.25 crore will be spent on schools upto 12th standard over 2.40 acres of land. ➤ Rs. 2.60 crore will be spent on development of EWS flats on no profit no loss basis (Land to be provided free of cost.) <p>Rs. 50.0 lac will be spent on development of playground for various sports activities over 2 acres.</p>	Agreed.
ii	<p>The diesel generator sets to be provided shall confirm to the provisions of Diesel Generator Set Rules prescribed under the Environment (Protection) Act, 1986. The exhaust pipe of DG set if installed must be minimum 10m away from the building or in case it is less than 10m away, the exhaust pipe shall be taken upto 3m above the building.</p>	Agreed. Silent DG sets are being used during construction phase.

Item No. 109.10

**STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY PUNJAB**

Ministry of Environment and Forests, Government of India

O/O Punjab Pollution Control Board,
 Vatavaran Bhawan, Nabha Road,
 Patiala – 147 001
 Telefax:- 0175-2215636

No. SEIAA/ 2835**REGISTERED****Date: 28.06.2016**

To

The Divisonal Engineer (PH- 2),
 Greater Mohali Area Development Authority,
 PUDA Bhawan, Sector -62, Mohali

Subject: Environmental Clearance under EIA notification dated 14.09.2006 for development of project namely "Ecocity Phase-II" at Mullanpur, New Chandigarh by M/s Greater Mohali Area Development Authority (GMADA). (Proposal no. SIA/PB/NCP/10631/2015)

This has reference to your application for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for the development of project namely "Ecocity Phase-II" at Mullanpur, New Chandigarh and subsequent presentation given before the State Level Expert Appraisal Committee (SEAC) for seeking prior environmental clearance for subject cited project as required under the EIA Notification, 2006. The proposal has been appraised as per procedure prescribed under the provisions of EIA Notification dated 14.09.2006 on the basis of the mandatory documents enclosed with the application viz., Form-1, 1-A, conceptual plan and the additional clarifications furnished in response to the observations of the SEAC.

It is inter-alia noted that the proposal involves development of project namely "Ecocity Phase-II" at Mullanpur, New Chandigarh. The total land area of the project is 312.12 acres. The project consists of residential plotted area, group housing area, commercial area, public building area, EWS housing area, Green area, School area, Bus terminal area, Rehri market, utilities etc. The project proponent submitted change of land use vide memo no. 3563 CTP (PB) MPM-167 dt. 27th July, 2015 to develop Residential Urban Estate (Eco City-II) in the Master Plan New Chandigarh. The project proponent has submitted approved layout plan and the total cost of the project is 340.74 crore. The total population of the project will be 28,367 persons.

The total water requirement for the project will be 5247 KL/day, out of which 3672.9 KLD will be met through Bhakra mainline canal (Kajauli waterworks line, 421.1 KLD through tube wells and 1153 KLD will be met through recycling of treated wastewater. The total wastewater generation from the project will be 4838 KL/day, which will be treated in a STP of capacity 5000 KLD to be installed within the project premises. The project proponent has proposed to use 1153 kl/day of treated wastewater for flushing purpose, 768 KL/day will be used for horticulture purpose in an area of 1,39,697.48 sq mtr and remaining 2820 KLD will be discharged into GMADA sewer or to 83.12 acre area to be developed as per Karnal technology for plantation purpose in summer season till GMADA trunk sewer is laid down and connectivity is made. In winter season, 1153 kl/day of treated wastewater for flushing purpose, 251 KL/day will be used for horticulture purpose in an area of 1,39, 697.48 sq mtr and remaining 3337 KLD will be discharged into GMADA sewer or to 83.12 acre area for plantation purpose. In rainy season, 1153 kl/day of treated wastewater for flushing purpose, 70 KL/day will be used for horticulture purpose in an area of 1,39, 697.48 sq mtr and remaining 3518 KLD will be discharged into GMADA sewer or to 83.12 acre area for plantation purpose. The project proponent also submitted an undertaking to the effect that 83.12 acres area reserved for future expansion will be developed as per Karnal technology and in said area, no development will be done till GMADA grid sewer is laid in this area and connectivity of sewerage system is laid down.

The total quantity of solid waste to be generated from the proposed project has been estimated as 10.7 MT/day, which will be segregated into biodegradable and non-biodegradable waste. The recyclable solid waste shall be sold out to the authorized vendors for which a written tie-up must be done with the authorized recyclers. Organic waste shall be composted by mechanical composters and the inert solid waste shall be sent to the concerned collection centre of integrated municipal solid waste management facility of the area.

The total load of electricity required for proposed project will be 10.3 MVA which will be supplied by PSPCL. The project proponent has proposed to install DG sets of adequate capacity. The e-waste generated will be stored in an isolated room and will be sold to the manufacturers.

The project proponent has also proposed to provide total 196 rainwater recharging pits to recharge the rain water. The used oil from the D.G. sets

will be sold out to the registered recyclers as per the provisions of the Hazardous Waste (Management, Handling & Transboundary Movement), Rules, 2008.

GMADA will be responsible for implementation of EMP and CSR activities. During construction phase contractor will be responsible for the implementation of EMP. Rs.865 lacs will be incurred on account of capital cost for implementation of EMP and Rs. 32.0 lacs/annum will be incurred on account of recurring charges. The project proponent shall spend amount Rs.32.35 crores for following activities under Corporate Social Responsibility :

- Rs. 2.0 crore will be spent on utility services in village Hoshiarpur.
- Rs. 3.25 crore will be spent on schools upto 12th standard over 2.40 acres of land.
- Rs. 2.60 crore will be spent on development of community centre over 1.85 acres of area.
- Rs. 24.0 crore will be spent on development of EWS flats on no profit no loss basis (Land to be provided free of cost).
- Rs. 50.0 lac will be spent on development of playground for various sports activities over 2 acres.

The case was considered by the SEAC in its 142nd meeting held on 11.03.2016, 145th meeting held on 11.05.2016 and lastly 146th meeting held on 30.05.2016 wherein, the Committee awarded 'Silver Grading' to the project proposal and decided that case be forwarded to the SEIAA with the recommendations to grant environmental clearance to the project proponent subject to certain conditions in addition to the proposed measures.

Thereafter, the case was considered by the SEIAA in its 109th meeting held on 15.06.2016 wherein, the Authority noted that the case stands recommended by SEAC and the Committee awarded '**Silver Grading**' to the project proposal. Therefore, the Authority decided to grant environmental clearance to the project proponent proponent for development of project namely "Ecocity Phase-II" in land area of 312.22 acre at Mullanpur, New Chandigarh, subject to the conditions as proposed by the SEAC in addition to the proposed measures. Accordingly, SEIAA, Punjab hereby accords necessary environmental clearance for the above project under the provisions of EIA Notification dated 14.09.2006 and its subsequent amendments, subject to the following conditions in addition to the proposed measures:

PART-A – Common conditions for all the three phases i.e. Pre-Construction Phase, Construction Phase and Operation Phase & Entire Life:

- (i) Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- (ii) A first aid room will be provided in the project both during construction and operation phase of the project.
- (iii) Construction of the STP, solid waste, e-waste, hazardous waste, storage facilities tubewell, DG Sets, Utilities etc, earmarked by the project proponent on the layout plan, should be made in the earmarked area only. In any case the position/location of these utilities should not be changed later-on.
- (iv) The environmental safeguards contained in the application of the promoter / mentioned during the presentation before State Level Environment Impact Assessment Authority/State Expert Appraisal Committee should be implemented in letter and spirit.
- (v) Ambient air & noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air quality, noise especially during worst noise generating activities, water quality and soil should be periodically monitored during construction phase as well as operation & entire life phase as per the MoEF&CC guidelines and all the mitigation measures should be taken to bring down the levels within the prescribed standards.
- (vi) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest (Conservation) Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, by project proponents from the competent authorities including Punjab Pollution Control Board and from other statutory bodies as applicable.
- (vii) The State Environment Impact Assessment Authority, Punjab reserves the right to add additional safeguards/ measures subsequently, if found necessary, and to take action including revoking of the environmental clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguards/ measures in a time bound and satisfactory manner.
- (viii) A proper record showing compliance of all the conditions of environmental clearance shall be maintained and made available at site at all the times.
- (ix) The project proponent shall also submit half yearly compliance reports in respect of the stipulated prior environmental clearance terms & conditions including results of monitored data (both in hard & soft copies) to the respective Regional office of MoEF, the Zonal Office of CPCB, the SPCB and SEIAA, Punjab on 1st June and 1st December of each calendar year.
- (x) Officials from the Regional Office of Ministry of Environment & Forests, Chandigarh / State Level Environment Impact Assessment Authority / State Level Expert Appraisal Committee / Punjab Pollution Control Board who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A complete set of all the documents submitted to State Environment Impact Assessment Authority should be forwarded to the APCCF, Regional Office of Ministry of Environment & Forests, Chandigarh.
- (xi) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by State Environment Impact Assessment Authority, Punjab.
- (xii) Environmental clearance is subject to final order of the Hon'ble Supreme

Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project and decisions of any Competent Court, to the extent applicable.

- (xiii) 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&CC, SEIAA, Punjab the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels for all the parameters of NAAQM standards shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- (xiv) The inlet and outlet point of natural drain system should be maintained with adequate size of channel for ensuring unrestricted flow of water.
- (xv) The unpaved area shall be more than or equal to 20% of the recreational open spaces.

PART-B – Specific Conditions:

I. Pre-Construction Phase

- (i) "Consent to establish" shall be obtained from Punjab Pollution Control Board under Air (Prevention & Control of Pollution) Act, 1981 and Water (Prevention & Control of Pollution) Act, 1974 and a copy of the same shall be submitted to the Ministry of Environment & Forests / State Level Environment Impact Assessment Authority before the start of any construction work at site.
- (ii) All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.
- (iii) The approval of competent authority shall be obtained for structural safety of the buildings due to earthquakes, adequacy of fire fighting equipments etc. as per National Building Code including protection measures from lightning.
- (iv) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, disposal of waste water & solid waste in an environmentally sound manner, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

II. Construction Phase:

- (i) All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.
- (ii) Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed off after taking the necessary precautions for general safety and health aspects of people with the approval of competent authority. The project proponent will comply with the provisions of Construction & Demolition Waste Rules, 2016. Dust, smoke & debris prevention measures such as wheel washing, screens, barricading and debris chute shall be installed at the site during construction including plastic / tarpaulin sheet covers for trucks bringing in sand & material at the site.
- (iii) Construction spoils, including bituminous material and other hazardous material will be disposed off as per Construction and Demolition Waste Management Rules, 2016.
- (iv) Vehicles hired for bringing construction material to the site and other machinery to be used during construction should be in good condition and should conform to applicable air emission standards.

- (v) The project proponent shall use only treated sewage/wastewater for construction activities and no fresh water for this purpose will be used. A proper record in this regard should be maintained and available at site.
- (vi) Fly ash based construction material should be used in the construction as per the provisions of Fly Ash Notification of September, 1999 and as amended on August, 2003 and notification No. S.O. 2804 (E) dated 03.11.2009.
- (vii) Water demand during construction should be reduced by use of ready mixed concrete, curing agents and other best practices.
- (viii) Adequate treatment facility for drinking water shall be provided, if required.
- (ix) The project proponent shall provide electromagnetic flow meter at the outlet of the water supply, outlet of the STP and any pipeline to be used for re-using the treated wastewater back into the system for flushing and for horticulture purpose/green etc.
- (x) (i) The project proponent will provide dual plumbing system for supplying the fresh water for potable purposes and treated wastewater for flushing purposes etc. and colour coding of different pipe lines carrying water/wastewater/ treated wastewater as follows:
 - a. Fresh water : Blue
 - b. Untreated wastewater : Black
 - c. Treated wastewater : Green
(for reuse)
 - d. Treated wastewater : Yellow
(for discharge)
 - e. Storm water : Orange
 (ii) The project proponent shall ensure that the allottees of plots in the project area provide dual plumbing system in their individual houses so as to use the treated waste water for flushing and other non potable purposes.
- (xi) The project proponent will ensure that the allottees provide fixtures for showers, toilet flushing and drinking of low flow either by use of aerators or pressure reducing devices or sensor based control.
- (xii) **(a)** Adequate steps shall be taken to conserve energy and taking measures as prescribed under the Energy Conservation Building Code and National Building Code, 2005 on Energy conservation.
(b) Solar lights shall be provided as proposed for illumination of common areas.
- (xiii) The diesel generator sets to be used during construction phase should conform to the provisions of Diesel Generator Set Rules prescribed under the Environment (Protection) Act, 1986.
- (xiv) Separate wet & dry bins at ground level and for common areas for facilitating segregation of waste, collection centre and mechanical composter (with a minimum capacity of 0.3kg/tenement/day) shall be provided for proper collection, handling, storage, segregation, treatment and disposal of solid waste.
- (xv) A rainwater harvesting plan shall be designed where the re-charge bores (minimum one per 5000 sqm of built up area) shall be provided. Recharging wells for roof top run-off shall have provision of adequate treatment for removing suspended matter etc. before recharging as per the CGWA guidelines. Run-off from areas other than roof top such as green areas and roads/pavement etc. may also be recharged but only after providing adequate treatment to remove suspended matter, oil & grease etc. and ensuring that rainwater being recharged from these areas is not contaminated with

pesticides, insecticides, chemical fertilizer etc.

- (xvi) Green belt of adequate width as proposed shall be provided so as to achieve attenuation factor conforming to the day & night standards prescribed for residential land use. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous species/variety. A minimum of one tree for every 80 sqm of land shall be planted and maintained. The existing trees may be counted for this purpose. Preference should be given to planting native species. Where the trees need to be cut, compensatory plantation in the ratio of 1:3 (i.e. planting of three trees for every one tree that is cut) shall be done with the obligation to continue maintenance. Tree species to be planted shall be strictly as per SEIAA guidelines.

III. Operation Phase and Entire Life

- i) "Consent to operate" shall be obtained from Punjab Pollution Control Board under Air (Prevention & Control of Pollution) Act, 1981 and Water (Prevention & Control of Pollution) Act, 1974 and a copy of the same shall be submitted to the Ministry of Environment & Forests / State Level Environment Impact Assessment Authority at the time of start of operation.
- ii) The total water requirement for the project will be 5247 KL/day, out of which 3672.9 KL /day shall be met through Bhakra Mainline Canal (Kajauli water works line), 421.1 KLD through own tubewells and remaining 1153 KL/day through recycling of treated wastewater.
- iii) a) The total wastewater generation from the project will be 4838 KL/day including waste water from Hoshiarpur Village, which will be treated in a STP of capacity 5000 KL/day to be installed within the project premises. As proposed, reuse of treated wastewater and discharge of surplus treated wastewater shall be as below:

Season	Reuse for flushing (KLD)	For irrigation purposes (KLD)	Discharge into 83.12 acre plantation purpose
Summer	1153	768	2820
Winter	1153	251	3337
Rainy	1153	70	3518

- b) Storage tank of adequate capacity shall be provided for the storage of treated wastewater and all efforts shall be made to supply the same for construction purposes. Only, the surplus treated wastewater shall be discharged into sewer after maintaining the proper record.
- c) The project proponent will develop at least 83.12 acre of land (available for future expansion) with eucalyptus plantation as per the Karnal technology for the discharge of its surplus(after reuse for flushing & horticulture purposes) treated waste water till such time the trunk sewer is laid by GMADA and connectivity of the project sewer is made with the trunk sewer.
- iv) The project proponent shall ensure safe drinking water supply to the habitants.
- v) The wastewater generated from swimming pool(s) shall not be discharged and the same shall be reused within the premises for purposes such as horticulture, HVAC etc.
- vi) A proper record regarding groundwater abstraction, water consumption, its reuse and disposal shall be maintained on daily basis and shall maintain a

- record of readings of each such meter on daily basis.
- vii) Rainwater harvesting/recharging systems shall be operated and maintained properly as per CGWA guidelines.
 - viii) The facilities provided for collection, segregation, handling, on site storage & processing of solid waste such as wet & dry bins, collection centre & mechanical composter etc. shall be properly maintained chute system provided for collection of solid waste. The collected solid waste shall be segregated at site. The recyclable solid waste shall be sold out to the authorized vendors for which a written tie-up must be done with the authorized recyclers. Organic waste shall be composted by mechanical composters with a minimum capacity of 0.3kg/tenement/day and the inert solid waste shall be sent to the concerned collection centre of integrated municipal solid waste management facility of the area. A proper record in this regard shall be maintained.
 - ix) Hazardous waste/E-waste should be disposed off as per Rules applicable and with the necessary approval of the Punjab Pollution Control Board.
 - x) 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.
 - xi) The project proponent before allowing any occupancy shall obtain completion certificate from the Competent Authority to the effect that all the development works have been completed as per the proposals submitted and submit a copy of the same to the SEIAA, Punjab. The project proponent shall further ensure that the individual allottees obtain completion certificate from the Competent Authority before allowing them to occupy the house.
 - xii) The green belt along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use.
 - xiii) Solar power plant and other solar energy related equipments shall be operated and maintained properly.
 - xiv) Environmental Management Cell shall be formed during operation phase which will supervise and monitor the environment related aspects of the project.

PART C – General Conditions :

I. Pre-Construction Phase

- i) This environmental clearance will be valid for a period of seven years from the date of its issue or till the completion of the project, whichever is earlier.
- ii) The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded environmental clearance and copies of clearance letters are available with the Punjab Pollution Control Board. The advertisement should be made within seven days from the day of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office, Ministry of Environment & Forests, Chandigarh and SEIAA, Punjab.
- iii) The project proponent shall obtain permission from the CGWA for abstraction of groundwater & digging of borewell(s) and shall not abstract any groundwater without prior written permission of the CGWA, even if any borewell(s) exist at site.
- iv) The project proponent shall obtain CLU from the competent authority.
- v) A copy of the clearance letter shall be sent by the proponent to concerned

Panchayat, Zilla Parishad/ Municipal Corporation, Urban local body 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.

II. Construction & Operation Phase and Entire Life Phase

- i) The project proponent shall adhere to the commitments made in the Environment Management Plan for the construction & operation phase and Corporate Social Responsibility and shall spend amount Rs.32.35 crores for following activities under Corporate Social Responsibility :
 - Rs. 2.0 crore will be spent on utility services in village Hoshiarpur.
 - Rs. 3.25 crore will be spent on schools upto 12th standard over 2.40 acres of land.
 - Rs. 2.60 crore will be spent on development of community centre over 1.85 acres of area.
 - Rs. 24.0 crore will be spent on development of EWS flats on no profit no loss basis (Land to be provided free of cost).
 - Rs. 50.0 lac will be spent on development of playground for various sports activities over 2 acres.
- ii) The diesel generator sets to be provided shall conform to the provisions of Diesel Generator Set Rules prescribed under the Environment (Protection) Act, 1986. The exhaust pipe of DG set if installed must be minimum 10 m away from the building or in case it is less than 10 m away, the exhaust pipe shall be taken upto 3 m above the building.

Sd/-
Member Secretary (SEIAA)

Endst. No2836-44

Date 28.06.2016

A copy of the above is forwarded to the following for information & further necessary action please.

1. The Secretary to Govt. of India, Ministry of Environment and Forest, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-office Complex, East Arjun Nagar, New Delhi.
3. The Chairman, Punjab State Power Corporation Ltd, the Mall, Patiala.
4. The Deputy Commissioner, SAS Nagar.
5. The Chairman, Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala.
6. The Director (Environment), Ministry of Environment and Forest, Northern Regional Office, Bays No.24-25, Sector-31-A, Chandigarh. The detail of the authorized Officer of the project proponent is as under:
 - a) Name of the applicant : Sh. Dharampal, Divisional Engineer (PH)
 - b) Contact no. : 9779457664
 - c) E-mail ID : dharampal.1960@gmail.com

7. The Chief Town Planner, Department of Town & Country Planning, 6th Floor, PUDA Bhawan, Phase-8, Mohali
8. Monitoring Cell, Ministry of Environment and Forest, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi.
9. The Environmental Engineer (Computers), Punjab Pollution Control Board, Head Office, Patiala for displaying this document on the web site of the State Level Environment Impact Assessment Authority.

Sd/-
Member Secretary (SEIAA)

PHOTOGRAPHS OF THE PROJECT



(a)



(b)



(c)



(d)



(e)



Eco Laboratories & Consultants Pvt. Ltd.

CIN : U74140PB2011PTC034739



[A Govt. Approved, ISO 9001:2015, 14001 & OHSAS-18001:2007 certified & Approved by MOEF, PCB]

TEST REPORT



TC 7477

PPCD-Ref. No. Lab/3236892
Dated-30.09.2011

ULR No.	TC7477190000088F	EC-18-19/13372	Page 1 of 1
Test Report No:	EL180319NW001		
Customer	'Eco City Phase-II' Mullanpur, New Chandigarh By M/s Greater Mohali Area Development Authority		
Work Order No. & Date	GMADA-DE(Ph-2)/ 2019-3362 dated 21/02/2019		
Type of Sample	Ground Water		
Mode of Collection of Sample	Sampling by laboratory		
Date of Sampling	18/03/2019		
Sampling Location	From Borewell (Near Site) (Agricultural Land)		
Sampling Protocol	IS: 3025 (P-1) 1987 R1998 Amdt-1		
Packing, Markings, Seal & Quantity	Plastic & Glass Bottle Marked 'B/18/01' 2litre + 250ml		
Date of Receipt of Sample	18/03/2019		
Period of Analysis	18/03/2019 to 22/03/2019		
Date of Reporting	22/03/2019		
Testing Protocol	IS 10500 {2012}		
Sample Observation	Clear, Colourless liquid.		

RESULTS

S. No.	Test Parameter	Units	Results	Acceptable limit	Permissible limit ¹	Test Method
1.	Colour	hazen	BDL(DL 5)	5	15	APHA-23rd Ed 2017-2120 B
2.	Total Hardness asCaCO ₃	mg/l	198	200	600	APHA-23rd Ed 2017-2340C
3.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part-5): 1983 RA 2017
4.	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part-8):1984 RA 2017
5.	Turbidity	NTU	BDL (DL 0.1)	1	5	APHA-23rd Ed 2017- 2130B
6.	Chloride as Cl	mg/l	2	250	1000	APHA-23rd Ed 2017- 4500 B
7.	pH	-	7.50	6.5 - 8.5	No Relaxation	APHA-23rd Ed 2017-4500B
8.	Iron as Fe	mg/l	0.16	0.3	No relaxation	APHA-23rd Ed 2017-3111B
9.	Total coliforms	MPN/100ml	<2 ^s	Absent	--	IS: 1622:1981 RA-2009
10.	E. coli	MPN/100ml	<2 ^s	Absent	--	IS: 1622:1981 RA-2009

Remarks: Sample complies with respect to above tests only with reference to IS 10500: 2012

Abbreviations: DL: Detection Limit, BDL: Below Detection Limit.

Symbols ^s <2 is minimum detection limit as per IS 1622 method and is equal to absent.

¹ Permissible limit in absence of alternate source.

Note Please refer Terms & Conditions overleaf.

****End of Report****

Not Valid for Consent Purpose

Checked By
Format No.: F7.8.2.Date:15.11.2018

Simranjit Kaur
Authorized Signatory-Biological

Dr. Roopak Kumar
Authorized Signatory-Chemical

[A Govt. Approved, ISO 9001:2015, 14001 & OHSAS-18001:2007 certified & Approved by MOEF, PPCB]

PPCB-Ref. No. Lab/3205802
Dated-30.09.2011

TEST REPORT



TC 7477

ULR No.	TC747719000000089F	ECB-19/13373	Page 1 of 1
Test Report No:	EL180319NS001		
Customer	'Eco City Phase-II' Mullanpur, New Chandigarh By M/s Greater Mohali Area Development Authority		
Work Order No. & Date	GMADA-DE(Ph-2)/ 2019-3362 dated 21/02/2019		
Type of Sample	Soil		
Mode of Collection of Sample	Sampling by laboratory		
Date of Sampling	18/03/2019		
Sampling Location	Project Site		
Packing, Markings, Seal & Quantity	Poly Bag Marked 'B/18/01' 1kg		
Date of Receipt of Sample	18/03/2019		
Period of Analysis	18/03/2019 to 22/03/2019		
Date of Reporting	22/03/2019		
Sample Observation	Brown coloured soil		

RESULTS

S. No.	Test Parameter	Units	Results	Test Method
1.	pH	-	7.78	IS:2720 (Part-26) 1987 [Reaffirmed.2011]
2.	Conductivity	mmhos/cm	0.186	IS:14767: 2000[Reaffirmed.2016]
3.	Moisture Content	%	6.8	IS:2720 (Part-II) 1973 R 2015
4.	Organic Matter	%	0.89	IS: 2720 (Part XXII) 1972 Reaafirmed. 2015
5.	Texture	-	Sandy Loam	IS: 2720 (Part XXII) 1972 Reaafirmed. 2015
6.	Bulk Density	gm/cc	1.63	IS: 2720 (Part- III):1980[Reaffirmed.2011]

Remarks: Party asked for above tests only.
Abbreviations: --
Symbols: --
Note: Please refer Terms & Conditions overleaf.

****End of Report****

Not Valid for Consent Purpose

Handwritten Signature

Checked By

Format No.: .F/7.8.2.Date:15.11.2018

Handwritten Signature
 Dr. Roopak Kumar
 Authorized Signatory-Chemical

[A Govt. Approved, ISO 9001:2015, 14001 & OHSAS-18001:2007 certified & Approved by MOEF, PPCB]

Ref. No. Lab/3238892
Dated-30.09.2011

TEST REPORT



ULR No.	TC74771900000095F	Page 1 of 1
Test Report No:	EL190319NA002	EC-029/13374
Customer	'Eco City Phase-II' Mullanpur, New Chandigarh By M/s Greater Mohali Area Development Authority	
Work Order No. & Date	GMADA-DE(Ph-2)/ 2019-3362 dated 21/02/2019	
Type of Sample	Ambient Air	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	18/03/2019	
Sampling Location	Near Site Office	
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines and Customer's Requirements.	
Date of Receipt of Sample	19/03/2019	
Period of Analysis	19/03/2019 to 22/03/2019	
Date of Reporting	22/03/2019	
Testing Protocol	IS:5182 and CPCB Air Manual Volume-I (NAAQM/36/2012-13) & NAAQS 2009	
Environmental Conditions	Clear Weather.	

RESULTS

S. No.	Test Parameter	Units	Results	Standards (¹ NAAQS 2009)	Test Method
1.	Particulate Matter (PM ₁₀)	µg/m ³	92	100	IS:5182 (P-23) 2006 RA 2017
2.	Particulate Matter (PM _{2.5})	µg/m ³	53	60	Lab SOP EL/SOP/AAQ/01
3.	Sulphur Dioxide (SO ₂)	µg/m ³	9	80	IS:5182 (P-2) 2001 RA 2017
4.	Oxides of Nitrogen (NO ₂)	µg/m ³	21	80	IS:5182 (P-6) 2006 RA 2017
5.	Ammonia (NH ₃)	µg/m ³	23	400	Lab SOP EL/SOP/AAQ/02
6.	Ozone (O ₃)	µg/m ³	19	180	IS:5182 (P-9):2006 RA 2014
7.	Carbon Monoxide (CO)	mg/m ³	0.63	04	IS 5182 Part-10:1999, RA 2014 (NDIR Method)

Remarks: Sample Complies with respect to Standards (NAAQS 2009)
Abbreviations: ¹National Ambient Air Quality Standards
Symbols --
Note Please refer Terms & Conditions overleaf.

****End of Report****

Not Valid for Consent Purpose



Checked By



Dr. Rai Singh
Authorized Signatory-Chemical

Format No.: F7.8.2.Date:15.11.2018

[A Govt. Approved, ISO 9001:2015, 14001 & OHSAS-18001:2007 certified & Approved by MOEF, PPCB]

TEST REPORT

PPCB-Ref. No. Lab/3233892
Dated-30.09.2011



ULR No.	TC747719000000096F	ELLS-19/13375	Page 1 of 1
Test Report No:	EL190319NN002		
Customer	'Eco City Phase-II' Mullanpur, New Chandigarh By M/s Greater Mohali Area Development Authority		
Work Order No. & Date	GMADA-DE(Ph-2)/ 2019-3362 dated 21/02/2019		
Type of Sample	Ambient Noise		
Mode of Collection of Sample	Sampling by laboratory		
Date of Sampling	18/03/2019		
Sampling Location	Near Project Office		
Sampling Protocol	IS: 9989:1981 R-2002 and as per customers requirements		
Date of Receipt of Sample	19/03/2019		
Period of Analysis	19/03/2019 to 19/03/2019		
Date of Reporting	22/03/2019		
Testing Protocol	IS 9989: 1981 R-2002		

RESULTS

S. No.	Test Parameter	Units	Results	Standard ¹	Test Method
1.	Ambient Day Time Noise Levels 1 Hour L _{eq}	dB(A)	50.2	55	IS: 9989:1981 R-2002


Remarks: Sample Complies with respect to 'The Noise Pollution (Regulation & Control) Rules, 2000 (CPCB)
Abbreviations: --
Symbols ¹ as per CPCB Guidelines
Note Please refer Terms & Conditions overleaf.

****End of Report****

Not Valid for Consent Purpose


Checked By

Format No.: .F7.8.2.Date:15.11.2018


Dr. Rai Singh
Authorized Signatory-Chemical



Punjab
State Pollution Control Board

Online Consent Management & Monitoring System

Ministry of Environment, Forest and Climate Change
Government of India



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Welcome Ecocity Phase 2

Date : 11-12-2018

Consent Application Details

Application No : **8993418**

Congratulations! Application submitted successfully.

Please submit the required enclosures to concerned Office within 48Hrs with online submitted application.

Your Consent Application application has been received under the Application Number **8993418**. *(Note this number for future communication and know the online status of the application submitted)*

To view the submitted application form click onto "View Application Form" and To print the application form click onto "Print Application Form"

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Punjab Pollution Control Board
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