भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली
(मानव संसाधन विकास मंत्रालय का एक स्वायत संस्थान, भारत सरकार के अधीन)
सैक्टर-81, नाँलेज सिटी, पो.ओ. मनौली, एस.ए.एस. नगर, मोहाली] पंजाब-140306
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH
MOHALI
(Estd. By Ministry of Human Resource Development, Govt. of India)

• Phone: 91-172-2240110

• email: iwd@iisermohali.ac.in

IISER/21-22/EE-EO/ 46

Dated: 20.05.2021

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

Subject: Submission of six monthly compliance report for period ending 31.03.2021 for the Project namely "Indian Institute of Science Education and Research" located at Sector 81, Distt. SAS Nagar (Mohali), Punjab.

Sir,

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 31.03.2021 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

Your Sincerely,

(P.K. Srivastava)

Encl: As above

CC: Member Secretary, SEIAA Punjab, Directorate of Environment and Climate Change, C/o Punjab State Council for Science & Technology, MGSIPA Complex, Sector 26- Chandigarh-160019.



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

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IISER/21-22/EE-EO/ 1-16

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Qid. 517.021

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SIX MONTHLY COMPLIANCE REPORT (Period ending 31.03.2021)

For

"Indian Institute of Science Education and Research"

Located at

Sector 81, SAS Nagar, Mohali, Punjab.

Project By:
M/s Indian Institute of Science Education and
Research
Sector 81, SAS Nagar, Mohali, Punjab.

Prepared by:



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

ems@ecoparyavaran.org, www.ecoparyavaran.org Phone: 0172-4616225, 8872043178

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Ministry of Environment, Forest & Climate Change Northern Regional Office, Chandigarh-160030

DATA SHEET

1.	Project Type	Educational Institute		
	Name of the Project	Indian Institute of Science Education and Research		
2. 3.	Clearance letter (s)/O.M No. & dates	Environment Clearance has been granted by MoEF&CC vide Letter No. 189/SEAC(P)/2010-1A.III dated 08.10.2010; copy of the EC letter is attached along as Annexure 1 .		
		Sector 81, Mohali		
4.	Location			
	a) District (s)	SAS Nagar		
	b) State (s)	Punjab 30°39" N & 76°43"E		
	c) Latitudes/ Longitudes			
5.	Address for correspondence	Indian Institute of Science Education and Research,		
		Sector 81, Knowledge City, Distt. SAS Nagar (Mohali), Punjab Pin code: 140306		
6.	Salient features			
	a) of the project	The project is designed to provide quality science education at the undergraduate and postgraduate level. As per Environmental Clearance, the total plot area of the project is 5,05,857 sq.m. Total proposed built up area is 2,36,140.67 sq.m. The construction work has been completed for DPR approved by Govt. of India.		
	b) of the environmental managemen plans	765 KLD. Earlier, a sewage treatment plant of 800 KLD capacity was proposed, common for IISER and Nano Technology campus. But, the institute was developed in two phases and due to site condition i.e. difference in contours, individual STP's have been installed area wise.		

7.	Break-up of the project area a) Submergence area: Forest and Non-forest b) Others Break-up of project affected population with enumeration of those losing houses/ dwelling units only, agricultural land only both dwelling	capacity 80 KLD each and 1 STP of capacity 15 D have been installed at site. eated water is used for irrigation purpose for which Acres of land is developed under green belt cluding trees, shrubs, grass in open areas. Treated ater will also be recycled for flushing purpose. As f now, the entire treated water is being used for rigation purpose. he total quantity of solid waste generation will be 1,000 kg/day when the entire campus will be fully onstructed (for the proposed built-up area of 1,36,140.67 sq.m). Presently, the total solid waste generated is 750 kg/day (250 kg/day from kitchen and 500 kg/day from garden/leaf litter/dry weeds etc.). The solid waste is segregated at source by providing different colored bins. Vermi- composting area has also been provided to handle biodegradables waste. Not applicable Not applicable
	a) Submergence area: Forest and Non-forest b) Others Break-up of project affected population with enumeration of those large houses/ dwelling units only,	Not applicable
	units and agricultural land and landless labourers/ artisans.	Not applicable
	b) Others (Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures. If survey has been carried out give detail	
9.	and year of survey) Financial details: a) Project cost as originally planne and subsequent revised estimates an	d As per EC letter, the total cost of the project is E 448.30 Crores. But, the revised overall cost of project is Rs. 633 Crores.

b) Allocations made for	Rs. 6	84 lakhs will be	incurred for im	plementation of
environmental management plans	EMP and Rs. 70 lakhs per annum will be incurred on			
with item wise and year wise break	account of recurring charges.			
up.	Amount to be spent on Environmental Management			
	Plans	(EMP) with brea	kup is given bel	low:
·	S.	Environment	Capital	Recurring
	No.	Management	Expenditure	Expenditure
		Plan	(Rs. In	(Rs. In
			Lacs)	Lacs)
,	1.	Air Pollution	25.00	7.00
		control		
	2.	Water	280.00	13.00
		Pollution		
		Control - STP		
	3.	Solid Waste	55.00	10.00
·	Management			
	4.	Environment	4.00	2.00
		Monitoring		
·		and		
		Management		
	5.	Rain water	250.00	8.00
		harvesting		
	6.	Miscellaneous	70.00	30.00
		(appointment		
		of consultants,		
		management		
		of EMC,		i.
		Consent Fees		
		etc.)		3
		Total	684.00	70.00
c) Benefit cost ratio/ internal rate of	As th	e project is edi	ication-cum-res	earch institute
return and the year of assessment.	As the project is education-cum-research institute, benefit cost ratio cannot be assessed.			
d) Whether (c) includes the cost of				
environmental management as shown				
The variation and management as shown				

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s Rs.

of the

e) Actual expenditure incurred on the The total expenditure incurred on the project up to

February' 2021 is Rs. 659.86 Crores.

in b) above.

project so far.

f) Actual expenditure meaning of		l expenditure gement Plan till : en below:	done on 31 st March, 202	Environmental 1 with breakup
far.	S. No.	Environment	Capital Expenditure (Rs.)	Recurring Expenditure (Rs.)
	1.	Air Pollution control measures including DG stacks, Air washers, Air	80 Lakhs/annum	80 Lakhs/annum
	2.	scrubber Water Pollution Control Measures; Provision of	280 Lakhs	20 Lakhs/annum
	3.	STP Landscaping and Green Belt	50 Lakhs	40 Lakhs/ annum
	4.	Rain wate		2.0 Lakhs
	5.		450 Lakhs	25 Lakhs
	6		er 270 Lakhs	25 Lakhs
	7			2.0 lakhs
		Total	1,380 lakh	s 194 lakhs
Forest land requirement:a) the status of approval for diversion	n N	ot Applicable		
of forest land for non-forestry use b) the status of clear felling, if any	$\frac{1}{N}$	ot Applicable		
c) the status of compensatory afforestation, if any.	y N	ot Applicable		
d) Comments on the viability sustainability of compensator Afforestation programme in the lig of actual field experience so far.	ry	lot 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)	Being a piece of Govt. land allotted for the project of IISER Mohali, the construction of only boundary wall was started in 2008 to protect it getting encroached and to demarcate IISER boundary with neighboring Govt. institutions.
	b) Date of completion (actual and/ or	The construction as per the DPR approved by Govt.
	planned)	of India has been completed in January 2016.
		Photographs of the project are enclosed as Annexure
		2.
13.	Reasons for the delay, if the project is	Not applicable
	yet to start	

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Compliance Report of Environmental Clearance of the period ending 31.03.2021

PART A – Specific conditions:

I. Construction Phase: Construction for Phase I and II has already been completed. Compliance for phase III will be incorporated whenever the construction for phase III will begin. The project is in operational phase.

II. Operation Phase:

S. No.	Compliance Required	Reply
i.	The installation of sewage treatment plant	STP of relevant capacities have been
	(STP) of relevant capacities should be certified	installed. Wastewater generated from the
	by an independent expert and a report in this	project is recycled to achieve zero
	regard should be submitted to the Ministry	discharge. The adequacy studies of plants
	before the project is commissioned for	are conducted as and when desired.
	operation. Discharge of treated sewage shall	Adequacy reports have been submitted to
	conform to the norms & standards of the Punjab	your kind office.
	Pollution Control Board, Patiala, Punjab.	
ii.	The car washing in the complex/ multiplex	Noted. Car washing is not allowed within
	should not be allowed.	the campus.
iii.	Adequate & appropriate pollution control	Noted. There are no fugitive emissions as
	measures should be provided to control fugitive	this is an institute.
	emissions to be emitted from the shopping and	
	multiplex.	
iv.	Adequate drinking water facility based on the	Adequate treatment i.e. RO treatmen
	Reverse Osmosis treatment technology to be	facility is being provided.
	provided.	
v.	Rainwater harvesting for roof run-off and	17 rain water recharging pits have been
	surface run-off, as plan submitted should be	provided within the project prefinees to
	implemented. Before recharging the surface	recharge the ground water. Rain water
	run-off, pretreatment must be done to remove	recharging pits are maintained and cleane
	suspended matter, oil and grease.	properly. Photographs of the rain water
		recharging pits are attached along a
		Annexure 2. Proper storm water networ
		has also been provided.
vi.	The solid waste generated should be properly	Solid waste is being properly collected an
	collected and segregated before disposal to the	segregated at the source, before disposa
	City Municipal Facility. The in-vessel bio-	Solid waste generated is managed an
	conversion technique should be used for	disposed off as per Sond was
	composting the organic waste.	Management Rules, 2016.
vii	Any Hazardous waste including biomedica	As it is an institution so, no biomedical of

	1 1 1 1 CC D 1 1	1 1 1
	waste should be disposed off as per Rules and norms with the necessary approval of the Punjab Pollution Control Board.	hazardous waste is being generated. Only first aid facility is being provided. Spent oil from DG sets is being generated and sold to authorized recyclers approved by PPCB. Agreement has been done with the approved vendor of PPCB i.e. M/s Golden
		Petro for Category 5.1 i.e. used oil. Copy of agreement is attached along as Annexure 3.
viii.	The green belt design along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential land use. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous species/variety.	Adequate green area has been provided within the project premises. Photographs showing the green area are attached along as Annexure 2 .
ix.	The project proponent should take adequate and appropriate measures to contain the ambient air quality within the prescribed standards. The proposal regarding mitigation measures to be taken at site should be submitted to the Ministry of Environment & Forests.	Adequate and appropriate measures to control the ambient air quality within the prescribed standards are being followed like sprinkling of water is being done with treated water from STP in lawns to mitigate any sort of dust. As a law abiding Institute, adequate measures are being taken to minimize pollution to maximum extent. Ambient air quality is being monitored on half yearly basis and test reports of the same are attached as Annexure 4.
X.	Incremental pollution loads on the ambient air quality, noise and water quality should be periodically monitored after commissioning of the project.	Ambient noise and water quality monitoring has been done on half yearly basis; test reports of the same are attached as Annexure 4.
Xi.	Application of solar energy should be incorporated for illumination of provision for solar water heating. A hybrid system for a portion of the apartments should be provided.	Solar water heating system and solar electricity generator plant of 100 KV capacity has been provided. Photographs showing solar panels are attached along as Annexure 2.
xii.	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully	Wide roads for the entry and exit are provided. Parking areas are fully internalized. There is no traffic congestion.

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	internalized and no public space should be utilized.	Parking area of 16,683 sq.m. has bee provided as per layout plan approved b GMADA. Photograph showing parkin within the premises is attached along a Annexure 2.
xiii	A report on the energy conservation measures conforming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about building materials and technology, R & U Factors etc. and submitted to the Ministry within three months time.	Energy conservation measures including solar water heating system, solar lights, reglass façade etc. are provided. Photograph showing solar panels are attached along a Annexure 2.
xiv	Ozone depleting substances (Regulation & Control) Rules should be followed while designing the air conditioning system of the	No ozone depleting substances are being used for air conditioning.
xv	Environmental Management Cell should be formed during operation phase which will supervise and monitor the environment related aspects of the project.	Environment Management Cell has be constituted. The names of the EM members along with the designation a given below: • Dr. Sudip Mandal (Associate Professor) • Dr. Sunil Patil (Assistant Professor) • Dr. Anoop Ambili (Assistant Professor) • Er. P.K. Srivastava (Execute Engineer)

PART B - General Conditions:

S. No.	Conditions	Reply
i.	Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, Chandigarh.	Noted. Six monthly compliance rep for the period ending 30.09.2020 been submitted to RO, MoEF&CC a SEIAA, Punjab. Acknowledgments the previously submitted six mont compliance report for period end 30.09.2020 is enclosed as Annexure 5
ii.	Officials from the regional office of Ministry and Environment & Forest, Chandigarh who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/ data by the project	Officials from the Regional Office Ministry of Environment & Fore

	internalized and no public space utilized.	Parking area of 16,683 sq.m. has been provided as per layout plan approved by GMADA. Photograph showing parking within the premises is attached along as Annexure 2. Energy conservation measures including
xiii	A report on the energy conservation measures conforming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about building materials and technology, R & U Factors etc. and submitted to the Ministry	solar water heating system, solar lights, no glass façade etc. are provided. Photographs showing solar panels are attached along as Annexure 2.
xiv	within three months Ozone depleting substances (Regulation & Control) Rules should be followed while designing the air conditioning system of the	Environment Management Cell has been
XV	Environmental Management Cen should be a should be a should be a should be a supervise and monitor the environment related aspects of the project.	members along with the designation are given below: Dr. Sudip Mandal (Associate Professor) Dr. Sunil Patil (Assistant Professor) Dr. Anoop Ambili (Assistant Professor) Er. P.K. Srivastava (Executive Engineer)

PART B - General Conditions:

	Coneral Contract	
PART B.	. General Conditions	Reply
S. No.	Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, Chandigarh.	Noted. Six monthly compliance report for the period ending 30.09.2020 has been submitted to RO, MoEF&CC and SEIAA, Punjab. Acknowledgments of the previously submitted six monthly compliance report for period ending 30.09.2020 is enclosed as Annexure 5.
ii.	Officials from the regional office of Ministry and Environment & Forest, Chandigarh who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/ data by the project	Officials from the Regional Office of Ministry of Environment & Forests,

	proponents during their inspection. A complete set of all the documents submitted to MoEF&CC	Impact Assessment Authority, Punjab. State Level Expert Appraisal Committee
	should be forwarded to CCF, Regional Office of Ministry of Environment & Forests, Chandigarh	Punjab/ Punjab Pollution Control Board during their inspection.
iii.	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.	Noted. In case, if there will be any changes made in the project scope, that fresh application will be filed to SEIAA Punjab.
iv.	The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986 to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Noted.
V .	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, as applicable by project proponents from the competent authorities.	Noted. All applicable statutory clearances are being obtained as and when required. Various permissions approvals are being obtained and giver below: • Fire Safety Certificate has been obtained; copy of the same is attached along as Annexure 6. • Structure Stability Certificate has been obtained from competent authority; copy of the same is enclosed as Annexure 7.
vi.	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.	The copy of the EC letter was sent to various concerned departments. Further EC letter has been uploaded on official website. Screenshot of the website showing the same is attached along as Annexure 8.
Vii.	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	Advertisement has already been published in two newspapers and copy of the same was submitted to your esteemed office.

	clearance Letters are available with the Punjab	
	Pollution Control Board and may also be seen on	
	the website of the Ministry of Environment and	
	Forest at http://www.envfor.nic.in . The	
	advertisement should be made within 7 days from	
	the day of issue of the clearance letter and a copy	
	of the same should forwarded to the regional	·
	office of the Ministry at Chandigarh.	
viii.		Noted.
	others under the provisions of water (Prevention	
	and Control of Pollution) Act 1974, Air	
	(Prevention and Control of Pollution) Act 1981,	
	Environmental (Protection) Act 1986, The Public	
	Liability (Insurance) Act 1991 and EIA	
	Notification 2006.	
ix.	Under the provisions of Environment (Protection)	Noted.
171.	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.	
x.	The project proponent shall also submit six	Noted. The status of compliance of the
Λ.	monthly reports on the status of compliance of	stipulated EC conditions, including
	the stipulated EC conditions including results of	results of monitored data and EC letter
	monitored data (both in hard copies as well as by	has been uploaded on website.
	e-mail) to the respective Regional office of	[
	MoEF&CC, Office of CPCB and SPCB.	along as Annexure 8.
	Moer &cc, office of creb and of cb.	Six monthly compliance report for the
		period ending 30.09.2020 has been
		submitted to RO, MoEF&CC and
		SEIAA, Punjab. Acknowledgment of the
		previously submitted six monthly
		compliance report for period ending
		30.09.2020 is enclosed as Annexure 5.
xi.	Environmental clearance is subject to final order	Noted.
AI.	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.	
xii.	Any appeal against this environmental clearance	The 30 days' time period has been over
XII.	shall lie with the National Environment Appellate	and no appeal has been made.
	shan he with the National Environment Appenate	and no appear not over made.

authority, if preferred, within a period of 30 days as prescribed under section 11 of the Environment Appellate Authorities Act, 1997.

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No. 189/SEAC(F)/2010-IA.III Government of India Ministry of Environment & Forests (IA.III Division)

Paryavaran Bhawan, CGO Complex, Lodi Road, Wew Delhi-110003

Dated 8th October, 2010

M/s. Indian Institute of Science Education & Research, Transit Campus-MGSIPAP Complex, Adjoining Sacred Heart School, Sector-26, Chandigarh - 169 019

Subject: - Environmental Clearance for the Establishment of Indian Institute of Science Education and Research at Sector-81, SAS Nagar, Mohali, Panjab by M/s. Indian Institute of Science Education and Research - Reg.

Sir.

This has reference to your application No: IISER/09/Reg./1148 dated 13.9.2009 and subsequent letters dated 10.11.2009, 14.11.2009, 1.12.2009, 10.12.2009, 17.12.2009, 7.8.2010 and 13.9.2010 seeking prior environmental clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the Form-1 & 1A, EMP, Layout plans and the additional clarifications furnished in response to the observations of the State Expert Appraisal Committee Constituted by the competent authority in its meeting held on 14.11.2009, 9.1.2010, 30.1.2010 and awarded "Silver" grading to the project.

- It is interalia, noted that the proposal involves the Establishment of Indian Institute of Science Education and Research on a plot area of 505857 Sq.m. in two phases. The total built-up area proposed is 236140.67 sq. mfs. The water requirement proposed is 765 KLD (fresh water 495 KLD). The capacity of STP is about 800 KLD. The water requirement for flushing is 306 KLD. Total solid waste generation will be 2000 kg/day. The power requirement is about 10.8 MVA. The total cost of the project is about Rs. 448.30 Crores.
- The Expert Appraisal Committee, after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations, have recommended for the grant of Environmental Clearance for the project mentioned above. Accordingly, the Ministry hereby accord necessary Environmental Clearance for the above project as per the provisions of Environmental Impact Assessment Notification 2006 and its subsequent amendments, subject to strict compliance of the terms and conditions as follows:



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PART A- SPECIFIC CONDITIONS

I. Construction Phase

- "Consent for Establishment" should be obtained from Punjab Polly Control Board under Air and Water Act and a copy should (i) submitted to the Ministry before the start of any construction wor
- All required sanitary and hygienic measures should be in place by starting construction activities and to be maintained throughout (ii) construction phase.
- A First Aid Room, will be provided in the project both du construction and operation of the project. (iii)
- Adequate drinking water and sanitary facilities should be provided construction workers at the site. The safe disposal of wastewater (iv) solid wastes generated during the construction phase should ensured. 1814
- Provision should be made for the supply of firel (kerosene or coo gas); utensils such as pressure cookers etc. to the labourers du (v) construction phase.
- All the labourers to be engaged for construction should be screened health and adequately treated before engaging them to work at the (vi)
- For disinfection of waste water, use ultra violet radiation, (vii) chlorination.
- All the topsoil excavated during construction activities should be st for use in horticulture/landscape development within the project si (viii)
- Disposal of muck during construction phase, should not create adverse effect on the neighbouring communities and be displ (ix)taking the necessary precautions for general safety and health asp of people, only in approved sites with the approval of compe authority.
- Soil and ground water samples will be tested to ascertain that the no threat to ground water quality by leaching of heavy metals (x)other toxic contaminants.
- Construction spoils, including bituminous material and hazardous materials, must not be allowed to contaminate watercov (xi)and the dump sites for such material must be secured so that should not leach into the ground water.
- The diesel generator sets to be used during construction phase sh be low sulphur diesel type and should conform to E (P) (xii) prescribed for air and noise emission standards.
- Vehicles hired for bringing construction material to the site shou 10) (xiii)

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(xxviii) Provisions should be made for housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structure to be removed after the completion of the project.

II. Operation Phase

- 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 Ministry before the project is commissioned for operation. Discharge of treated sewage shall conform to the norms & standards of the Punjab Pollution Control Board, Patiala, Punjab.
- ii) The car washing in the complex/multiplex should not be allowed
- iii) Adequate & appropriate pollution control measures should be provided to control fugitive emissions to be emitted from the shopping and multiplex.
- iv) Adequate drinking water facility based on the Reverse Osmosis treatment technology be provided
- Rain water harvesting for roof run- off and surface run- off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease.
- vi) The solid waste generated should be properly collected & segregated before disposal to the City Municipal Facility. The In-vessel bioconversion technique should be used for composting the organic waste.
- vii) Any hazardous waste including biomedical waste should be disposed of as per applicable Rules & norms with necessary approvals of the Punjab Pollution Control Board.
- The green belt design along the periphery of the plot shall achieve attenuation factor conforming to the day and night noise standards prescribed for residential landuse. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous variety.
- The project proponent should take adequate and appropriate measures to contain the ambient air quality within the prescribed standards. The proposal regarding mitigation measures to be taken at site should be submitted to Ministry of Environment & Forests.
- Incremental pollution loads on the ambient air quality, noise and water quality should be periodically monitored after commissioning of the project.
- 'xi) Application of solar energy should be incorporated for illumination of

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should

- provision for solar water heating. A hybrid system or fully solar syste for a portion of the apartments should be provided.
- xii) Traffic congestion near the entry and exit points from the road adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.
- A Report on the energy conservation measures confirming to energy conservation norms finalize by Bureau of Energy Efficiency should be prepared incorporating details about building materials & technology R & U Factors etc and submit to the Ministry in three months time.
- xiv) Ozone depleting substances (Regulation & Control) Rules should be followed while designing the air conditioning system of the project.

Environment Management Cell should be formed during operation phase which will supervise and monitor the environment related aspects of the project.

PART - B. GENERAL CONDITIONS

- Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, Chandigarh.
- 4. Officials from the Regional Office of MOEF, Chandigath 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 MoEF should be forwarded to the CCF, Regional office of MOEF, Chandigarh.
- 5. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
- 6. The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
- 7. 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, as applicable by project proponents from the competent authorities.
- 3. A copy of the clearance letter shall be sent by the proposent to concerned canchayat, Zilla Parishad/ Municipal Corporation, Urban local body and the ocal 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.
-). The project proponent should advertise in at least two local Newspapers videly circulated in the region, one of which shall be in the vernacular language nforming, that the project has been accorded environmental clearance and

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copies of clearance letters are available with the Punjab Rollution Control Box and may also be seen on the website of the Ministry of Environment and Fore at http://www.envfor.nic.in. The advertisement should be made within 7 da from the day of issue of the clearance letter and a copy of the same should forwarded to the Regional office of this Ministry at Chandigarh.

- These stipulations would be enforced among others under the provisio of Water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention a control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Pub Liability (Insurance) Act, 1991 and EIA Notification, 2006
- 11. Under the provisions of Environment (Protection) Act, 1986, legal activ shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.
- The project proponent shall also submit six monthly reports on the statt of compliance of the stipulated Ee-conditions including results of monitors data (both in hard copies as well as by e-mail) to the respective Regional office MoEF, the respective Office of CPCB and the SPCB.
- 13. Environmental clearance is subject to final order of the Hon'ble Suprem Court of India in the matter of Goa Foundation Vs. Union of India in $W_{\rm F}$ Petition (Civil) No.460 of 2004 as may be applicable to this project.
- 14. Any appeal against this environmental clearance shall lie with the Nations Environment Appeliate Authority, if preferred within a period of 30 days a prescribed under Section 11 of the National Environment Appellate Authorit

Yours faithfully

(Bharat Bhushan Director (IA

Copy to: - . .

The Secretary, Department of Environment, Government of Punjab Chandigarh 2.

The Member Secretary, Punjab Pollution Control Board, Zonal Office Patiala, Punjab.

The CCF, Regional Office, Ministry of Environment & Forests(NZ), Bays 3. No.24-25, Sector 31-A, Dakshin Marg, Chandigarh 160 030. 4.

IA - Division, Monitoring Cell, MOEF, New Delhi - 110003.

Guard file.

(Bharat Bhushan) Director (IA)

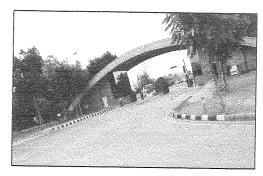
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Annexure 2

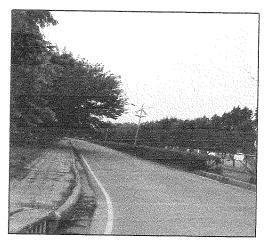
Project Photographs

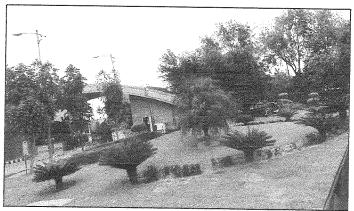




Photographs showing main entrance

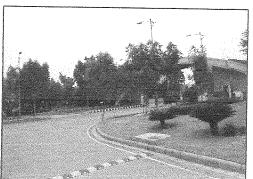




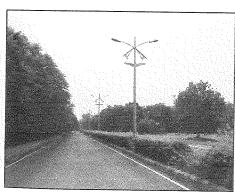


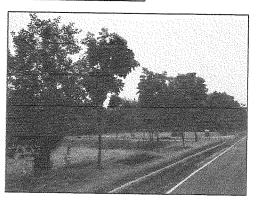
Photographs of the green area provided within project premises



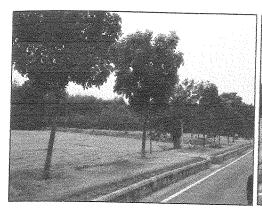


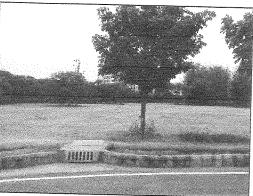






Photographs of the green area provided within project premises



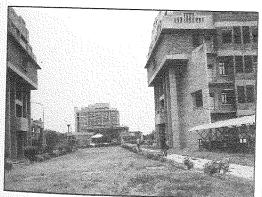


Photographs of the green area provided within project premises





Photographs showing parking area provided within project premises



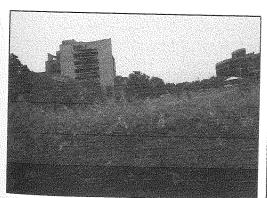




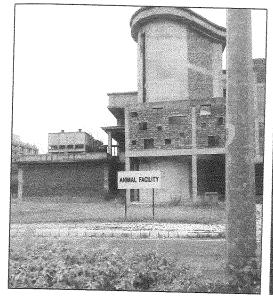




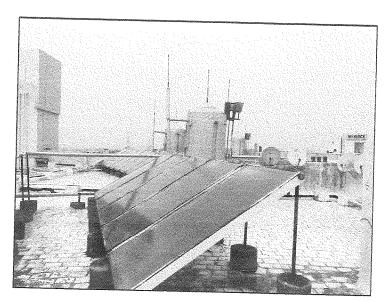




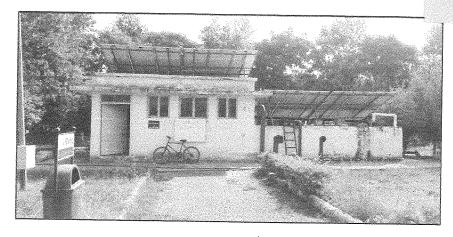




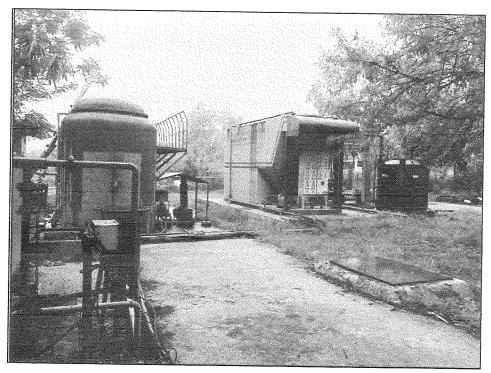




Photographs of the solar panel



Photographs of the fire fighting



Photographs of the Sewerage Treatment Plant (STP) provided within project premises



ਪੰਜਾਬ पंजाब PUNJAB

AP 160203

HAZARDOUS WASTE CATEGORY 5.1 DISPOSAL AGREEMENT

This HAZARDOUS WASTE CATEGORY 5.1 DISPOSAL AGREEMENT (hereinafter referred to As "the agreement) Made on this 1^{st} December 2020 by and amongst.

M/s GOLDEN PETRO having the registered office at Plot no C-45, Industrial Focal point, Chanalon - 140; 03, distt S.A.S. (herein after called the "Facility operator" which expression shall unless repugnant to the context or meaning thereof, mean and include its successors and permitted assigns) represented by Raman Garg(Partner), Phone number 09876489193 duly authorized

AND

M/s Indian Institute of Science Education And Research Mohali having the Site at Sector 81 Knowledge City P O Manouli SAS Nagar Mohali Punjab 140306 (herein after called the "Occupier" which expression shall unless repugnant to the context or meaning thereof mean and include its successors and permitted assigns) represented by Registrar , IISER Mohali , duly authorized WHEREAS

- The facility operator is in the state of Punjab with recognition of the Chandigarh Pollution Control Committee, Punjab Pollution Control Board for collection, transportation, treatment and disposal of hazardous wastes category. 5.1(used oil).
- 2. The facility operator will collect, transport, treat, store and dispose off category. 5.1 being generated by the generator on the terms and conditions mentioned in this agreement. hazardous wastes
- The generator desires to get its Used Oil, being generated at their production units mentioned above as per their valid authorization from Punjab Pollution Control Committee ("PPCB") to be collected, transported, treated, stored and disposal off by utilizing the services of the operator, to which the operator has agreed, on the terms and conditions contained in this agreement.

Raman Livy

MA

NOW THEREFORE, in consideration of the premises and of mutual covenants and obligations hereinafter set forth, the parties here to agree as follows:

- 1. The facility operator will collect , transport, treat store and dispose off the hazardous wastes category.
- 2. The generator shall declare hazardous wastes category. 5.1 quantities on annual basis as per rules and confirm to a set schedule of waste disposal to the facility operator such declaration of waste quantities and mandate of disposal shall be given within a period of 30 days from date of signing of this agreement in this format enclosed at annexure 2. For subsequent years, the changes in waste quantities and mandate for disposal shall be given within 30 days of the beginning of the relevant financial year. In case of change in waste quantities during the year, the generator shall intimate the changes in waste quantities and mandate for disposal to the facility operator before the increased quantities of waste are sent to the facility operator.
 - 3. The FO's collection vehicle will be provided access to the hazardous waste storage area; the containers will be segregated and loaded by the generator on the said vehicle in a manner so that there is no spillage.
 - 4. Any hazardous wastes category, 5.1 being loaded or disposed off on any vehicle other than that authorized by the FO through a duly issued manifest shall not be responsibility of the FO
 - 5. That the generator and the FO shall at times keep each other indemnified against all liabilities , suits, perceedings, judgements, settlements, damages, losses, expenses, claims, actions, costs, penalities, etc. arising out of or related to this agreement from time to time.
 - 6. That in case of any dispute arising out of this agreement the court of Mohali shall have exclusive jurisdiction.
 - 7 Rates that will be Provided by us Rs 3000 per Drum Inclusive of Drum and GST .
 - 8 Validity of Agreement 1 December 2020 To 30 November 2025.

Facility operator,

FOR GOLDEN PETRO

Raman Grany

Authorized signatory

GENERATOR:

M/s Indian Institute of Science Education And Research

Authorized signatory

डॉ. जागदीप सिंह /Dr. Jagdaap Sing) जुलसचित/Ragistrar भारतीय विकास विकार एवं अनुसंधाल संस्थात, Indian Institute of Science Education & Rasearch, नेपटर हैं। जोलेज सिंह, एक प्रस्ता, जबर, मोहाको (पिजा उद्योग हैं। Knowledge Car, B.A.S. Nagar, Mchaii (Furne) **W**

5.NI

ANNEXURE 1

Production unit of the generator

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5.00	Name of the unit	Address/contact	Name of the	e-mail
		numbers	occupier	
1	Indian Institute of	0172-2240124	Registrar	Registrar@iisermohali.ac.in
	Science Education	Control of the Contro	IISER Mohali	
	And Research			
			en angaga at an angaga kalaban	
	1	i		and the second s

ANNEXURE 2

FORMAT FOR DISCLOSURE OF WASTE QUANTITIES AND MANDATE

WE Indian Institute of Science Education And Research hereby declare that based on our industry production and our annual projections, we shall be disposing of hazardous wastes category. 5.1 to the facility.

The approximate annual generation of hazardous wastes will be as follows;

S.NO	Type of hazardous wastes category. 5.1	Quantity in Itrs
1	USED OIL	1-500
2		
3		
4		
5		
6		
7		

The average monthly generation of hazardous wastes category. 5.1 is expected to be as follows;

Month	Type of hazardous wastes category, 5.1	Quantity (in no/kg)
April		
May		
June 1		
July		
August		
September	The second secon	
October		
November	The second secon	
December	Jank State Control of the Control of	
January	The second secon	
February	A second and the seco	
March		

M/s Indian Institute of Science Education And Research

AUTHORIZED SIGNATORY

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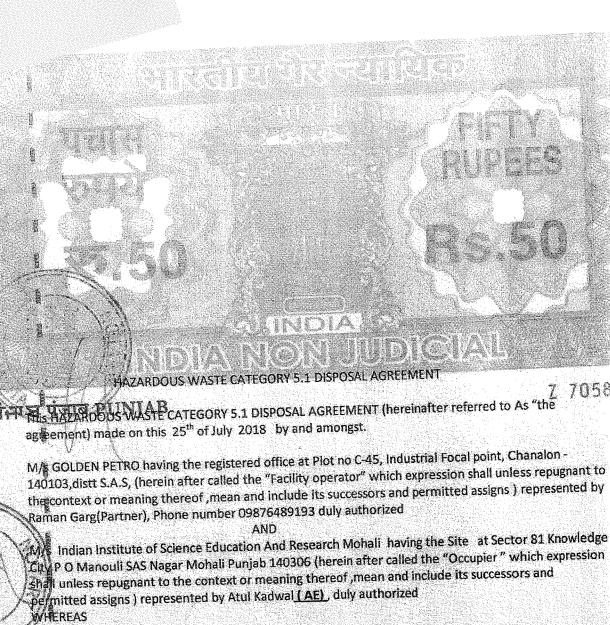
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etc.



- The facility operator is in the state of Punjab with recognition of the Chandigarh Pollution Control Committee, Punjab Pollution Control Board and Central pollution control board for collection, transportation, treatment and disposal of hazardous wastes category. 5.1(used oil) .
- The facility operator will collect, transport, treat, store and dispose off category. 5.1 being generated by the generator on the terms and conditions mentioned in this agreement. hazardous wastes
- The generator desires to get its Used Oil, being generated at their production units mentioned above as per their valid authorization from Punjab Pollution Control Committee ("PPCB") to be collected ,transported ,treated ,stored and disposal off by utilizing the services of the operator , to which the operator has agreed ,on the terms and conditions contained in this agreement.

PLOT NO. C-45. Industrial Focal PO/6

Chanaigh, Die Mohalt Priniah (40)03

Acet Eren (Elect) intian institute of Sanga Emeration NOW THEREFORE, in consideration of the premises and of mutual covenants and obligations hereinafter set forth, the parties here to agree as follows:

- 1 .The facility operator will collect ,transport, treat store and dispose off the hazardous wastes category.
 5.1
- 2. The generator shall declare hazardous wastes category. 5.1 quantities on annual basis as per rules and confirm to a set schedule of waste disposal to the facility operator, such declaration of waste quantities and mandate of disposal shall be given within a period of 30 days from date of signing of this agreement in this format enclosed at annexure 2. For subsequent years, the changes in waste quantities and mandate for disposal shall be given within 30 days of the beginning of the relevant financial year, in case of change in waste quantities during the year, the generator shall intimate the changes in waste quantities and mandate for disposal to the facility operator before the increased quantities of waste are sent to the facility operator.
- 3. The FO's collection vehicle will be provided access to the hazardous waste storage area; the containers will be segregated and loaded by the generator on the said vehicle in a manner so that there is no spillage.
- 4. Any hazardous wastes category. 5.1 being loaded or disposed off on any vehicle other than that authorized by the FO through a duly issued manifest shall not be responsibility of the FO
- 5. That the generator and the FO shall at times keep each other indemnified against all liabilities , suits, perceedings, judgements, settlements, damages, losses, expenses, claims, actions, costs, penalities, etc. arising out of or related to this agreement from time to time.
- 6. That in case of any dispute arising out of this agreement the court of Mohali shall have exclusive jurisdiction.
- Rates that will be provided by us Rs 3000 per Drum
- 8 Validity of Agreement 25th July 2018 To 24th July 2020.

Facility operator:

FOR GOLDEN PETRO

GOLDENPETRO
PLOT NO C45 Industrial Focal Point
Chanalon, Dist, Mohali, Punjab 140103

Ruman Gary

Authorized signatory

GENERATOR:

M/s Indian Institute of Science Education And Research

PAKCEH SHARMA CONTROL OF THE PROPERTY OF THE P

Authorized signatory

Abul Kadwal Asst. Engr. (Elect.) Indian insibing of Science Education & Passarch (ISER) Mohell

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ANNEXURE-1

Production unit of the generator

S.NO	Name of the unit	Address/contact	Name of the	e-mail
311 6.70		numbers	occupier	
	Indian Institute of Science	<u>8054810564</u>	<u>Atul Kadwal</u>	abilkadual Bissermobaliae
	Education And Research			

ANNEXURE 2

FORMAT FOR DISCLOSURE OF WASTE QUANTITIES AND MANDATE

WE Indian Institute of Science Education And Research hereby declare that based on our industry production and our annual projections, we shall be disposing of hazardous wastes category. 5.1 to the

The approximate annual generation of hazardous wastes will be as follows;

S.NO	Type of hazardous wastes category. 5.1	Quantity in ltrs
1	USED OIL	700 Ltn
<u> </u>		
3		
4		
5		
6		
7		

The average monthly generation of hazardous wastes category. 5.1 is expected to be as follows;

Month	Type of hazardous wastes caregory category, 5,1	Quantity (in no/kg)
April		
May		
June		
July		
August		
September		
October		
November		
December		
January		
February		
March	G.L U.S. And Postageth	

Indian Institute of Science Education And Research

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Samp Packi

S.No



CIN: U7414

TEST REPORT





DEK 140.	C747721000001982F /ater (Ground Water)	Test Report No. : Date of Reporting :	EL160421NW003 21/04/2021
Customer	Indian Institutes of Science Education & Research Knowledge city, Sector 81, PO. Manauli, Sahibzada Ajit Singh Nagar, Punjab	Work Order No. & Date	WO. NO. IISER/20-2021/EE-EO/248 Dt.: 25/01/2021
		Customer reference No. (If any)	NA
Sampling Protocol	IS:3025 (P-1) 1987 RA 2019	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	16/04/2021	Date of Receipt of Sample	16/04/2021
Sampling Location	From Borewell No.5	Testing Location	Permanent Facility
Testing Protocol	IS 10500 : 2012 (Second Revision)	Period of Analysis	16/04/2021 To 21/04/2021
Sample Description	Clear, colourless liquid.		
Packing, Markings, S	eal & Qty. 2 litre Plastic & 250ml Glass Bottle Marke	ed 'SL/16/02'	

RESULTS

I - Chemical Testing

1. Water (Ground Water)

S.No.	Test Parameter	Unit	Result	Acceptable limit	Permissible limit in absence of alternate source	Test Method
1	Colour	Colour Units	BDL(DL5)	5	15	IS:3025(P-4):1983 RA2017
2	Odour	-	Agreeable	Agreeable	Agreeable	IS: 3025 (P-5): 1983 RA 2018
3	рН	-	7.39	6.5-8.5	No relaxation	IS:3025(P-11): 1984RA2017
4	Turbidity	NTU	BDL(DL0.1)	1	5	IS:3025(P-10):1984 RA2017
5	Chloride	mg/l	15	250	1000	IS:3025(P-32) :1988 RA2019
6	Iron	mg/l	0.09	1.0	No relaxation	IS:3025(P-53):2003 RA 2019
_ 7	Total hardness	mg/l	190	200	600	IS:3025(P-21):2009 RA2019

II -Biological Testing

1. Water (Ground Water)

S.No.	rest raintietel	Unit	Result	Acceptable limit	Permissible limit in absence of alternate source	Test Method
	Total coliforms	CFU/100ml	Absent	Absent	-	IS:15185 :2016

Authorized Signatory-Biological

Dr Rai Singh Authorized Signatory-Chemical

Page No. 1/2

Format No. F/7.8.2-W-01-18.06.20 Rev 05

ECO BHAWAN E-207, Industrial Area, Phase VIII-B (Sector-74), Mohali (Punjab) 160071 © 0172-4616225 © 9781303109 © consulteco@yahoo.com | ecolab@ecoparyavaran.org © www.ecoparyavaran.org





ULR No. :

TC747721000001982F

Test Report No. :

EL160421NW003

Type of Sample: Water (Ground Water)

Date of Reporting: 21/04/2021

Remarks:

NA

OTHER INFORMATION

Abbreviation:

ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions:

Please refer terms and conditions on backside of Test Report (Page-1)

End of Report

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Checked by QA

Simranjit Kadr Authorized Signatory-Biological Dr Rai Singh Authorized Signatory-Chemical

Format No. F/7.8.2-W-01-18.06.20 Rev 05

Page No. 2/2



CIN: U74140



TEST REPORT

Type of Sample: Water (Ground Water)		Test Report No. :	EL160421NW003/A
Type of Jampic.		Date of Reporting:	21/04/2021
Customer	Indian Institutes of Science Education & Research Knowledge city, Sector 81, PO. Manauli, Sahibzada Ajit Singh Nagar, Punjab		
		Customer reference No. (if any)	NA
Sampling Protocol	IS:3025 (P-1) 1987 RA 2019	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	16/04/2021	Date of Receipt of Sample	16/04/2021
Sampling Location	From Borewell No.5	Testing Location	Permanent Facility
Testing Protocol	IS 10500 : 2012 (Second Revision)	Period of Analysis	16/04/2021 To 21/04/2021
Sample Description	Clear, colourless liquid.		
Packing, Markings, S	Seal & Qty. 2 litre Plastic & 250ml Glass Bottle Marke	rd 'SL/16/02'	

RESULTS

II -Biological Testing

1. Water (Ground Water)

S.No. Test Parameter Unit Popula							
Test Parameter	Unit	Result	Acceptable	Permissible	Test Method		
			l iimit	🛊 in the first that the second contract of t	En viel.		
				Source	Property of the second		
Escherichia coli	CFU/100ml	Absent	Absent		IS:15185:2016		
	Test Parameter Escherichia coli	Oint	Cint Result	Frohorishia sell	Fscherichia coli		

Remarks:

This test report is the part of Test Report No.EL160421NW003

OTHER INFORMATION

Abbreviation:

ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable

Terms & Conditions:

Please refer terms and conditions on backside of Test Report (Page-1)

End of Report

Checked by QAN

Format No. F/7.8.2-W-01-18.06.20 Rev 05

Authorized Signatory-Biological

Page No. 1/1



CIN: U741



TEST REPORT



	TC747721000002026F	7	TC-7477
Type of Sample :	Ambient Air Quality	Test Report No. :	EL170421NA014
Customer		Date of Reporting :	21/04/2021
	Indian Institutes of Science Education & Research Knowledge city, Sector 81, PO. Manauli, Sahibzada Ajit Singh Nagar, Punjab	Work Order No. & Date	WO. NO.
			IISER/20-2021/EE-EO/248 Dt 25/01/2021
		Customer reference No. (If any)	NA
Sampling Protocol	IS:5182 and CPCB Air Manual Volume-i (NAAQMS/36/2012-13) / CPCBNAAQS-2009	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	16/04/2021		- Tabolatory
iampling Location	AB1 & AB2 (Pump House No.2)	Date of Receipt of Sample	17/04/2021
esting Protocol	IS:5182 and CPCB Air Manual Volume-i	Period of Analysis	17/04/2021 To 21/04/2021
	(NAAQMS/36/2012-13) / CPCBNAAQS-2009		Partially cloudy
esting Location	Site Testing & Permanent Facility		weather; Drizzling for 2-3hrs.

RESULTS

I-Chemical Testing

1. Atmospheric Pollution (Ambient Air)

.No.	Test Parameter	l linia		A STATE OF THE STA	
	Particulate Matter (as PM10)	Unit	Result	Standard	Method
2	Particulate Matter (as PM2.5)	μg/m³	71	100	
9	Sulphin D: 14 (as PM2.5)	μg/m³	32	60	IS: 5182 (Part-23) : 2006, RA 2017
	Sulphur Dioxide (as SO2)	μg/m³	8	80	Lab SOP: EL/SOP/AAQ/01
	Nitrogen Dioxide (as NO2)	μg/m³	17		IS: 5182 (Part-2) : 2001, RA 2017
	Ammonia (as NH3)	μg/m³	21	80	IS: 5182 (Part-6) : 2006, RA 2017
	Ozone (as O3)	μg/m³	26	400	Lab SOP: EL/SOP/AAQ/02
	Carbon Monoxide (as CO)	mg/m³		180	IS: 5182 (Part-9) : 1974, RA 2019
lark:	S: NA	7.18/111	0.56	04	IS: 5182 (Part-10) :1999, RA 2019
ER I	NFORMATION INA				

any liabiliⁿ pproval of sion. ran.org sired by the f preserve ion. esting and

Abbreviation:

Terms & Conditions:

ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable Please refer terms and conditions on backside of Test Report (Page-1)

End of Report

Dr Rai Singh Authorized Signatory-Chemical

Page No. 1/1

Format No.: .F/7.8.2-AA-01-26.11.19 Rev 04

ECO BHAWAN E-207, Industrial Area, Phase VIII-D (Sector-7-7), Industrial Companyavaran.org 9781303109 consulteco@yahoo.com | ecolab@ecoparyavaran.org www.ecoparyavaran.org



CIN: U74140PB



TEST REPORT



Type of Sample : ,	TC747721000002027 F Ambient Noise	Test Report No.:	EL170421NN002
Customer		Date of Reporting :	21/04/2021
	Indian Institutes of Science Education & Research Knowledge city, Sector 81, PO. Manauli, Sahibzada Ajit Singh Nagar, Punjab	Work Order No. & Date	WO. NO. IISER/20-2021/EE-EO/248 Dt.: 25/01/2021
Complian B		Customer reference No. (If any)	NA
Sampling Protocol	IS 9989-1989, RA 2008	Mode of Collection of Sample	
Date of Sampling	16/04/2021		Sampling by laboratory
Sampling Location	Near Main Gate	Date of Receipt of Sample	17/04/2021
Testing Protocol	IS 9989-1989, RA 2008	Period of Analysis	17/04/2021 To 17/04/2021
Testing Location	Site Testing		

RESULTS

I- Chemical Testing

1. Atmospheric Pollution (Ambient Noise Level)

S.No. Test Parameters	vei/	ing to Line with the control of the		
1 Ambient Day Time Noise Levels	Units	Results	Method	
	Standards on — Standards	53.3	LAB SOP: EL/SOP/NL/01	
Area Code	Standards as per Noise P	ollution (Regula	LAB SOP: EL/SOP/NL/01 tion and Control) Rules, 2000	

Area Code	Category of Area/Zone	Limits in c	dB(A) Leq*
Α		Day Time	Night Time
B	Industrial area	75	70
C	Commercial area	65	55
0	Residential area	55	45
U (time shall s	Silence Zone . to 10.00 p.m., Night time shall mean from 10.00 p.m. to 6.00	50	

Day time shall mean from 6.00 a.m. to 10.00 p.m., Night time shall mean from 10.00 p.m. to 6.00 a.m., Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority, Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority. *dB(A) Leg denotes the time weighted average of the level of sound in decibels on scale 'A' which is relatable to human hearing Remarks:

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OTHER INFORMATION

Abbreviation:

Terms & Conditions:

ULR: Unique Lab Report, BDL: Below Detection Level, NA: Not Applicable Please refer terms and conditions on backside of Test Report (Page-1)

End of Report

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ECO BHAWAN E-207, Industrial Area, Phase VIII-B (Sector-74), Mohali (Punjab) 160071 61/72-4616225 9781303109 consulteco@yahoo.com | ecolab@ecoparyavaran.org www.ecoparyavaran.org



CIN: U741/10PP001



TEST REPORT



ULR No. :	FC747721000001981F		TC-7477
Type of Sample:		Test Report No. :	EL160421NS002
		Date of Reporting :	21/04/2021
	Indian Institutes of Science Education & Research Knowledge city, Sector 81, PO. Manauli, Sahibzada Ajit Singh Nagar, Punjab	Work Order No. & Date	WO. NO. IISER/20-2021/EE-EO/248 Dt.: 25/01/2021
		Customer reference No. (If any)	NA
Sampling Protocol	USEPA/600/R-92/128		
Date of Sampling	16/04/2021	Mode of Collection of Sample	Sampling by laboratory
Sampling Location		Date of Receipt of Sample	16/04/2021
Testing Protocol	Park Near Pump House No.2 IS Method	Testing Location	Permanent Facility
Sample Description	Brown colored soil	Period of Analysis	16/04/2021 To 21/04/2021
Packing, Markings, S	A		

RESULTS

I. Chemical Testing

1. Pollution & Environment (Soil)

S.No.	Test Parameter			
1	На	Unit	Result	Test Method
2	Conductivity	-	7.52	IS: 2720 (P-26) 1987 RA2016
Section Sections	Moisture Content	mmhos/cm	0.298	IS:14767: 2000 RA2016
Shelman	Organic Matter	%	7.8	IS: 2720 (P-II) 1973 R 2015
5	Texture	%	1.08	IS: 2720 (Part XXII) 1972 R2015
6	Bulk Density		Loamy sand	IS: 2720(P- 4) 1985 RA 2015
Remark		gm/cc	1.52	IS: 2720(P - VII):1980 RA 2016

OTHER INFORMATION

Abbreviation:

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End of Report

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