THAPAR INSTITUTE
OF ENGINEERING & TECHNOLOGY
(Deemed-to-be-University u/s 3 of the UGC Act, 1956)
Thapar Technology Campus,
Bhadson Road, Patiala - 147 004 (Punjab) India
Phone : +91-175-2393021
Email : registrar@thapar.edu
URL : www.thapar.edu

Date: 26.02.2024

To
The Additional Director
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office,
Bays Nos. 24-25, Sector 31 A,
Dakshin Marg,
Chandigarh – 160030
(Mail ids.: eccompliance-nro@gov.in and roiz.chd-mefcc@nic.in)

Subject: Submission of six monthly compliance report for period ending 30.09.2023 for the Project namely "Thapar Institute of Engineering and Technology" located at Bhadson Road, Patiala, Punjab.

Respected 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 **30.09.2023** for the above said project through mail for your perusal.

Kindly acknowledge the receipt of the same.

Thanking you

Sincerely,

Dr Gurbinder Singh
8288008118
Registrar, TIET, Patiala
registrar@thapar.edu

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. (Uploaded on Parivesh portal)

2023

SIX MONTHLY COMPLIANCE REPORT
(Period ending 30.09.2023)

F

OR

For

Thapar Institute of Engineering and Technology
(Deemed to be University)

At

Bhadson Road,
District Patiala, Punjab

Prepared by:

Eco Paryavaran Laboratories and Consultants Private Limited

E-207, Industrial Area, Phase-VIIIB (Sector-74), Mohali (SAS Nagar), Punjab 160071

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CONTENT

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

DATA SHEET

1.	**Project Type**	Educational Institute
2.	**Name of the Project**	"Thapar Institute of Engineering and Technology" (Deemed to be University)
3.	**Clearance letter (s)/O.M No. & dates**	Environmental Clearance has been granted by SEIAA, Punjab vide Letter No. SEIAA/3777 dated 26.06.2015 sand the copy of the same is attached along as **Annexure 1.** Further institute proposed expansion for which Environmental Clearance has been obtained vide Letter No. SEIAA/914 dated 25.01.16 and the copy of the same is attached along as **Annexure 1(a).** Recently institute proposed further expansion for which Environment Clearance has been obtained by MoEF&CC vide File F. No. IA3-10/7/2021-IA.III dated 12.03.2021; copy of the same is enclosed as **Annexure 1(b).**
4.	**Location**	Bhadson Road
	a) District (s)	Patiala
	b) State (s)	Punjab
	c) Latitudes/ Longitudes	30°21'24.78" N & 76°21'31.05" E
5.	**Address for correspondence**	Thapar University Campus, Bhadson Road, Patiala, Punjab.
6.	**Salient features**	
	a) of the project	As per the current Environmental Clearance letter, the total plot area after expansion will remain same i.e., 10,08,194.06 sq.m. (249.13 acres). However, overall built-up area will become 4,45,678.09 sq.m. The proposed building are New Girl's Hostel Q, Guest House, Sport Center, etc.
	b) of the environmental management plans	As per the Environmental Clearance, the total water requirement for the project will be 1,279 KLD out of which fresh water requirement will be 826 KLD, which will be met through 4 existing installed tube well.

		The total wastewater generation from the project will be 945 KLD which will be treated in already installed STP of 2.3 MLD capacity within the project premises. 926 KLD of treated wastewater will be re-used for flushing (355 KLD) and for green area demand & Excess to 10 acres of land under Karnal Technology. Total solid waste generation from the project will be 5.36 TPD. The total power requirement will be 8,600 KW which will be taken from Punjab State Power Corporation Ltd.
7.	**Break-up of the project area**	
	a) Submergence area: Forest and Non-forest	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 labourers/artisans.**	Not applicable
	a) SC/ST/Adivasis	Not applicable
	b) Others *(Please indicate whether these figures are based 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.	As per EC letter, total cost of the project is Rs. 1097.4 Crores.

<table>
<tr><td></td><td>b) Allocations made for environmental management plans with item wise and year wise break up.</td><td>Allocations made for environmental management plan are listed below:
During Construction Phase:
<table>
<tr><th>Description</th><th>Capital
Rs. Lakhs</th></tr>
<tr><td>Waste water Management</td><td>100</td></tr>
<tr><td>Air & Noise Pollution Management</td><td>5</td></tr>
<tr><td>Landscaping</td><td>50</td></tr>
<tr><td>Rainwater Recharging</td><td>50</td></tr>
<tr><td>Environmental Monitoring</td><td>5</td></tr>
<tr><td>Solid Waste Management</td><td>10</td></tr>
<tr><td>Miscellaneous</td><td>10</td></tr>
<tr><td>Total</td><td>Rs. 230 Lakhs</td></tr>
</table>
During Operational Phase:
<table>
<tr><th>Description</th><th>Recurring Cost/Annum
Rs. Lakhs</th></tr>
<tr><td>Waste water Management</td><td>15</td></tr>
<tr><td>Air & Noise Pollution Management</td><td>1</td></tr>
<tr><td>Landscaping</td><td>10</td></tr>
<tr><td>Rainwater Recharging</td><td>10</td></tr>
<tr><td>Environmental Monitoring</td><td>2</td></tr>
<tr><td>Solid Waste Management</td><td>5</td></tr>
<tr><td>Miscellaneous</td><td>2</td></tr>
<tr><td>Total</td><td>Rs. 45 Lakhs</td></tr>
</table></td></tr>
<tr><td></td><td>c) Benefit cost ratio/internal rate of return and the year of assessment</td><td>Will be calculated and submitted.</td></tr>
<tr><td></td><td>d) Whether (c) includes the cost of environmental management as shown in b) above.</td><td>Yes</td></tr>
<tr><td></td><td>e) Actual expenditure incurred on the project so far.</td><td>The actual expenditure done on the project till 30th September’2023 is Rs. 1064.13 crores.</td></tr>
<tr><td></td><td>f) Actual expenditure incurred on environmental management plans so far.</td><td>Approx. Rs.13.99 crores has been spent on environmental management plans till 30th September’2023.</td></tr>
<tr><td>10.</td><td>Forest land requirement:</td><td></td></tr>
<tr><td></td><td>a) the status of approval for diversion of forest land for non-forestry use</td><td>Not Applicable</td></tr>
<tr><td></td><td>b) the status of clear felling, if any</td><td>Not Applicable</td></tr>
</table>

	c) the status of compensatory afforestation, if any.	Not Applicable
	d) Comments on the viability & sustainability of compensatory Afforestation programme 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:**	80 % construction has been done. Photographs showing the status of construction are attached along as **Annexure 2.**
	a) Date of commencement (actual and/or planned)	March, 1956
	b) Date of completion (actual and/or planned)	1st Phase: 30.12.2017 2nd Phase: Completed 3rd Phase: December, 2024
13.	**Reasons for the delay, if the project is yet to start**	Not applicable

Compliance Report on conditions imposed in Environmental Clearance as per MoEF&CC for Period ending 30.09.2023

SPECIFIC CONDITIONS:

SI.No.	Conditions	Reply
i.	As committed, PP shall develop solar power generation capacity of 3MW and implement the condition of existing EC with regard to energy conservation.	Agreed. Solar power plant of capacity 3 MW has been proposed. Presently, process for taking quotations has been initiated for installation of 1 MW solar power plant as phase I. Vendors are being finalized considering technical and commercial aspects.
ii.	Area for greenery shall be provided as per the details provided in the project document i.e., area under plantation/greenery will be 2,36,885 sq. m. As proposed, at least 27,634 trees shall be maintained during the operation phase of the project. The landscape planning should include plantation of native species. A minimum of 01 tree for every 80 sq.m of land should be planted and maintained. The existing trees will be counted for this purpose. Plantations to be ensured species (cut) to species (planted). The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.	The same has been implemented. Presently, adequate green area has been provided within the project premises. Photographs showing the same is enclosed as **Annexure 2.**
iii.	Abstraction of groundwater shall be subject to the permission of Central Ground Water Authority (CGWA) and ground water recharge shall conform to CGWA norms or norms prescribed by the local authorities. Freshwater requirement shall not exceed 826 KLD during operational phase	Ad interim permission for Groundwater approval for abstraction has been obtained from PWRDA. Further as per final PWRDA guideline application for NOC has been filed to concerned department. Copy of ad interim permission for abstraction is attached as **Annexure-3** and a screenshot for the applied application as per final guideline is attached as **Annexure-3a.**
iv.	As proposed, waste water shall be treated in an onsite STP of total 2.3 MLD capacity. At least 926 KLD of treated wastewater shall be recycled and re-used (355 KLD for flushing and rest for green area	Agreed. STP of capacity 2.3 MLD has already been installed within the campus and treated waste water is being reused for flushing & horticulture

	demand and excess to 10 acres of land under Karnal Technology).	purpose and excess is being discharge to area under Karnal Technology. Photographs showing area under Karnal Technology is enclosed as **Annexure 2.**
v.	The project proponents would commission a third-party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.	Agreed. 3rd party study will be conducted related to water quality and its uses. Although, treated water monitoring has been done by NABL accredited laboratory. Test reports are enclosed as **Annexure 4.**
vi.	The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed, 31 RWH pits shall be provided for rain water harvesting after filtration as per the CGWB norms.	Agreed. The same will be complied. Presently, 33 nos. of rain water recharging pits have already been constructed for groundwater recharging. Photographs of the same is enclosed as **Annexure-2**
vii.	The solid waste shall be duly segregated into biodegradable and non-biodegradable components and handled in separate area earmarked for segregation of solid waste, as per SWM Rules, 2016. As committed, biodegradable waste shall be composted by use of Composter. Inert waste shall be dumped to authorized site. The recyclable waste shall be sold to resellers.	Institute is complying with the Solid Waste Management Rules, 2016. Solid waste is being duly segregated into biodegradable and non-biodegradable components. Biodegradable waste is being composted by use of Mechanical composter having 7 Ton/day capacity. Inert waste is being dumped to authorized dumping site. The recyclable waste is being sold to resellers.
viii.	The PP shall provide electric charging points in the parking areas for e- vehicles as committed.	The electric charging points have been provided in proposed buildings. Photographs showing the same is attached as **Annexure-2.**
ix.	The Environmental Clearance to the project is primarily under provisions of EIA Notification, 2006. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes as applicable to the project.	All the required approvals are being obtained as and when required. • Ground water approval (ad interim) for abstraction has been obtained from PWRDA. Copy of permission for abstraction is attached as **Annexure-3.** and a screenshot for the applied

		application as per final guideline is attached as **Annexure-3a.** • Consent to Establish (CTE) has been obtained from PPCB which is valid upto 31.03.2024. CTO Air/Water varied has also been obtained from PPCB. Further, Copy of CTE and CTO Air/Water granted is attached as **Annexure 5.** • Structural Safety certificate has been obtained; copy of the same is attached along as **Annexure 6.** • Permission for solid waste disposal has been obtained; copy of the same is attached along as **Annexure 7.**

STANDARD CONDITIONS:

I. Statutory Compliance:

SI.No.	Conditions	Reply
i.	The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.	All statutory clearances are being obtained as and when required. • Ground water approval has been obtained from PWRDA. Further, as per final guideline application for NOC has been filed to PWRDA. Copy of permission for abstraction is attached as **Annexure-3** and a screenshot for the applied application as per final guideline is attached as **Annexure-3a.** • Consent to establish has been obtained from PPCB which is valid upto 31.03. 2024. CTO Air/Water varied has also been obtained from PPCB. Further, Copy of CTE and CTO Air/Water granted is attached as **Annexure 5.** • Structural Safety certificate has been obtained; copy of the same is attached along as **Annexure 6.** • Permission for solid waste disposal has been obtained; copy of the same

		is attached along as **Annexure 7.**
ii.	The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lightening etc.	Structural Safety certificate has been obtained; copy of the same is attached along as **Annexure 6.**
iii.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.	Not applicable, as no forest land is involved.
iv.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	The project falls outside of the eco-sensitive zone of Bir Bhadson wildlife sanctuary. Thus, permission from National Board of Wildlife is not applicable.
v.	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	Consent to Establish (CTE) has been obtained from PPCB which is valid upto 31.03.2024. CTO Air/Water varied has also been obtained from PPCB. Further, Copy of CTE and CTO Air/Water granted is attached as **Annexure 5.**
vi.	The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.	Ground water approval has been obtained from DC, Patiala. Further, ground water approval (Ad interim) for abstraction has been obtained from PWRDA. Copy of permission for abstraction is attached as **Annexure-3.** Although as per final PWRDA guideline application has been filled to the PWRDA, screenshot for the same is enclosed as **Annexure-3a**
vii.	A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.	Agreed.
viii.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.	All statutory clearances are being obtained as and when required. Structural Safety certificate has been obtained; copy of the same is attached along as **Annexure 6.**

ix.	The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste Management Rules, 2016, shall be followed.	The Institute is complying with the Solid Waste Management Rules, 2016. The solid waste is being duly segregated into biodegradable and non-biodegradable components. Biodegradable waste is being composted by use of Mechanical composter having 7 Ton/day capacity. Inert waste is being dumped to authorized dumping site. The recyclable waste is being sold to resellers. The annual e-waste details are enclosed as **Annexure 7-7b.**
x.	The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.	Adequate measures are being taken to conserve energy as efficient external wall, insulated roof, double glazed units, high COP chillers, high efficiency (Eff1) motors, use of LED lighting and occupancy sensors, use of low flow fixtures prescribed under the Energy conservation Building Code.

Air Quality Monitoring and Preservation:

SI.No.	Conditions	Reply
i.	Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.	Suitable dust mitigation measures are being implemented like water sprinkling, providing wind wall barriers, tarpaulin sheets, so that there will be minimum impact on the environment.
ii.	A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.	All necessary steps are being taken care to reduce the air pollution and to improve the air quality. Further, monitoring of ambient air quality is being done by NABL accredited laboratory. Test reports are enclosed as **Annexure 4.**
iii.	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM_{10} and $PM_{2.5}$) covering	Ambient air quality monitoring station has been installed within project premises. Further, recent monitoring has been carried out. Test reports for

	upwind and downwind directions during the construction period.	ambient air quality monitoring is attached along as **Annexure 4.**
iv.	Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low Sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.	DG sets have been installed with proper stack height and inbuilt enclosure to control air and noise pollution as per provision of EPA rules. Low Sulphur diesel is being used in the DG set. Test report for the same is enclosed as **Annexure-4**
v.	Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3- meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.	All necessary steps like barricading sheets around construction area, tarpaulin sheets for covering vehicles carrying construction materials, regular sprinkling of water etc. are being followed to reduce the air pollution.
vi.	Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.	The sand, cement, or other construction material is not being kept in open.
vii.	Wet jet shall be provided for grinding and stone cutting.	Agreed.
viii.	Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.	Water sprinkling is being practiced to suppress dust.
ix.	All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Management Rules 2016.	The construction and demolition debris is being stored at earmarked area within the project and used for levelling purpose or construction of internal roads.
x.	The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.	DG set used at construction site is of low Sulphur diesel as per the norms. Test report for the same is enclosed as **Annexure-4**
xi.	The gaseous emissions from DG set shall be dispersed through adequate stack height as per	Existing DG sets have been installed with proper stack height and inbuilt

	CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.	enclosure to control air and noise pollution as per provision of EPA rules. Further, the same will be followed for proposed DG sets. Test report for the same is enclosed as **Annexure-4**
xii.	For indoor air quality the ventilation provisions as per National Building Code of India.	Agreed. National Building Code is being followed in the project.

Water Quality Monitoring and Preservation:

SI.No.	Conditions	Reply
i.	The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.	Natural drainage is not being affected due to construction and operation of the project.
ii.	Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.	Agreed. The same is being followed.
iii.	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly monitoring reports.	The electromagnetic flow meter has already been provided on the existing borewells record of meter readings is being maintained.
iv.	A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.	Ground water approval has been obtained from PWRDA. Further, as per guideline, NOC for abstraction from PWRDA has been applied. Copy of permission for abstraction is attached as **Annexure-3.** and a screenshot for the applied application as per final guideline is attached as **Annexure-3a.**
v.	At least 20% of the open spaces as required by the local building bye- laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening,	Agreed. Proper open spaces are being provided as per the local building bye-laws.

	landscape etc. would be considered as pervious surface.	
vi.	Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc. and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.	Agreed, dual plumbing system will be provided in the proposed buildings and treated water will be reused for flushing as well as for horticulture purpose.
vii.	Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc.) for water conservation shall be incorporated in the building plan.	Agreed, low flow fixtures are being provided for the reduction of water usage.
viii.	Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.	Agreed, dual plumbing system will be provided in the proposed buildings. Further, dual plumbing system has already been provided in existing buildings also.
ix.	Water demand during construction should be reduced by use of pre- mixed concrete, curing agents and other best practices referred.	Agreed. Curing agents as well as other best practices are being used during construction work for reducing water demand.
x.	Rainwater harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.	Agreed, 33 nos. of rainwater recharging pits have already been provided so as to compensate the abstraction of ground water. Photographs of the same is enclosed as **Annexure-2**
xi.	A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built- up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.	33 nos. of rain water recharging pits have already been provided within project premises for groundwater recharging. Photographs of the same is enclosed as **Annexure-2**
xii.	All recharge should be limited to shallow aquifer.	Agreed.
xiii.	No ground water shall be used during construction phase of the project.	Noted. No fresh ground water is being used for construction purpose.
xiv.	Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.	Ad interim permission for Groundwater approval for abstraction has been obtained from PWRDA. Further as per final guideline application for NOC has been filed to

		PWRDA. Copy of ad interim permission for abstraction is attached as **Annexure-3** and a screenshot for the applied application as per final guideline is attached as **Annexure-3a.**
xv.	The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.	Electromagnetic flow meter has already been provided and records of meter is being maintained. Ground water meter reading is enclosed as **Annexure-8**
xvi.	Sewage shall be treated in the STP with tertiary treatment.	STP of capacity 2.3 MLD has been installed with the campus & treated water is being reused for flushing & horticulture purpose within the premises.
xvii.	No sewage or untreated effluent water would be discharged through storm water drains.	The same is being taken care.
xviii.	Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.	STP of capacity 2.3 MLD has been installed with the campus & treated water is being reused for flushing & horticulture purpose.
xix.	Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odor problem from STP.	STP inlet & outlet monitoring is being done by NABL accredited laboratory. Adequate measures are being taken to mitigate odor problem. Test reports are enclosed as **Annexure 4.**
xx.	Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.	STP sludge generated from existing STP is being utilized as manure for green area within the project premises.

Noise Monitoring and Prevention:

SI.No.	Conditions	Reply
i.	Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.	Ambient noise and air monitoring is being done recently by NABL accredited laboratory. Test reports are enclosed as **Annexure 4.**
ii.	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Ambient noise levels are being maintained. Ambient monitoring is being done recently by NABL accredited laboratory. Test reports are enclosed as **Annexure 4.**
iii.	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	Existing DG sets has been provided with stack of adequate height and inbuilt enclosure. Also, ear plugs are being provided to workers and construction activities are confined to construction site only.

Energy Conservation Measures:

SI.No.	Conditions	Reply
i.	Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.	Agreed. ECBC guidelines is being followed in the project.
ii.	Outdoor and common area lighting shall be LED.	Agreed, LED lights are being used in the project premises. Further, in the proposed buildings LED lights will be provided.
iii.	Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall,	The same is being complied as per ECBC specifications.

	window, and roof u-values shall be as per ECBC specifications.	
iv.	Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.	LED lights are being provided in the buildings and in addition, solar energy has been proposed as energy conservation.
v.	Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.	Solar power plant of capacity 3 MW has been proposed. Presently, process for taking quotations has been initiated for installation of 1 MW solar power plant as phase I. Vendors are being finalized considering technical and commercial aspects.
vi.	Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.	Solar power plant of capacity 3 MW has been proposed. Presently, process for taking quotations has been initiated for installation of 1 MW solar power plant as phase I. Vendors are being finalized considering technical and commercial aspects.

Waste Management:

SI.No.	Conditions	Reply
i.	A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.	Permission for solid waste disposal has been obtained; copy of the same is attached along as **Annexure 7.**
ii.	Disposal of muck during construction phase shall 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.	Muck generated from construction activities is being disposed off in environmentally safe manner. Further, dust mitigation measures are being adopted like water sprinkling, tarpaulin sheets etc. so that there will be minimum impact on the environment.
iii.	Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.	Separate wet and dry bins have been provided for segregation of solid waste.

iv.	Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.	The Institute is complying with the Solid Waste Management Rules, 2016. The solid waste is being duly segregated into biodegradable and non-biodegradable components. Biodegradable waste is being composted by use of Mechanical composter having 7 Ton/day capacity.
v.	All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.	The same is being complied. Inert waste is being dumped to authorized dumping site. The recyclable waste is being sold to resellers.
vi.	Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.	Hazardous waste is generated at construction site like used oil from DG sets, empty containers etc. which are being taken care by the contractor only. A copy for the Hazardous waste approval from PPCB is attached as **Annexure 7a**
vii.	Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.	Fly ash bricks and fly ash based cement are being used in the project. Fly ash consumption details till 30.09.2023 is attached as **Annexure-9.**
viii.	Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.	PPC Cement is being used, which is constituted of Fly Ash. Further, PPC cement is being used in the buildings under construction.
ix.	Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.	Construction waste is being managed as per Construction and Demolition Rules, 2016.
x.	Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination	Agreed.

Green Cover:

SI.No.	Conditions	Reply
i.	No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).	Agreed. The same is being complied.
ii.	Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.	No tree cutting is involved in the project.
iii.	Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.	During construction activities, the top soil excavated is being stored and used for the development of green belt within the project premises.

Transport:

SI.No.	Conditions	Reply
i.	A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria. a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic. b. Traffic calming measures. c. Proper design of entry and exit points. d. Parking norms as per local regulation.	Agreed. The same will complied.
ii.	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to	Vehicles used for bringing construction material to the site and other machinery used during construction phase are

	applicable air and noise emission standards be operated only during non-peak hours.	being maintained and monitored for pollution levels. However, PUC certificate of the vehicles used at the construction site is attached along as **Annexure 10.**
iii.	A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.	Agreed.

Human Health Issues:

SI.No.	Conditions	Reply
i.	All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.	Personal Protection Equipment's (PPE) is being provided to construction workers for safety.
ii.	For indoor air quality the ventilation provisions as per National Building Code of India.	Agreed. The same is being followed.
iii.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	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 toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be	All the mandatory facilities are being provided at construction site.

	in the form of temporary structures to be removed after the completion of the project.	
v.	Occupational health surveillance of the workers shall be done on a regular basis.	Agreed. Regular health check-up of the worker is being done.
vi.	A First Aid Room shall be provided in the project both during construction and operations of the project.	A dispensary is already present within the campus.

Miscellaneous:

SI.No.	Conditions	Reply
i.	The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.	Advertisement has been published in the newspapers regarding grant of EC; copy of the same is enclosed along as **Annexure 11.**
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Copies of the Environmental Clearance has been submitted to the DC Office, Patiala and MC, Patiala. Copy of the acknowledgement is enclosed as **Annexure 12.**
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Environmental Clearance letter along with six-monthly compliances have been uploaded on the official website. Screen shot for the same is enclosed as **Annexure 13**
iv.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Six monthly compliance reports are being regularly submitted the ministry of Environment, Forest and Climate.
v.	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting	The institute is having well defined environment policy.

	infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	
vi.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.	Separate Environmental Cell has already been constituted to deal with environmental related issues.
vii.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/ Regional Office along with the Six-Monthly Compliance Report.	EMP will be implemented. In addition to this, CSR activities has been done regularly. Rs. 2.57 crores have been spent on the CSR activities till 30th September, 2023.
viii.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Environmental statement for each financial year in Form-V is being submitted to PPCB. A copy for the same is enclosed as **Annexure 14**
ix.	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Consent to Establish for Expansion has already been obtained as per the revised Environmental Clearance and copy of CTE letter is attached as **Annexure 5**.
x.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Stipulations made by the State Pollution Control Board and the State Government are being strictly followed.
xi.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the Expert Appraisal Committee.	Agreed.
xii.	No further expansion or modifications in the plant shall be carried out without prior approval of the	Noted, No further expansion or modification will be done without prior approval of the Ministry of

	Ministry of Environment, Forest and Climate Change (MoEF&CC).	Environment, Forest and Climate Change (MoEF&CC).
xiii.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed.
xiv.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
xv.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted.
xvi.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Full cooperation being extended to the officer of the Regional Office and PPCB and requisite data/ information /monitoring reports being given as demanded by them.
xvii.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Noted.
xviii.	Any appeal against this EC 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.	Not applicable, as 30 days' time period has been completed & no appeal has been made.

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 2216540

No. SEIAA/3777 Registered Dated: 26-6-11

To

Sh. Gurbinder Singh, Registrar
Thapar University, Bhadson Road,
Patiala.

Subject: Environmental Clearance under EIA notification dated 14.09.2006 for construction of "Thapar University" in the revenue estate of Thapar University, Bhadson Road, Patiala.

This has reference to your application and subsequent presentation given before the State Level Expert Appraisal Committee (SEAC) 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, 2006 on the basis of the mandatory documents enclosed with the application viz., Form-1, 1-A, conceptual plan, EIA study report 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 "Thapar University" at Bhadson Road, Patiala, Punjab in an area of 249.13 acre (10,08,194.06 sq m). The total builtup area is 309416.91 sqm. The land has been transferred, vide Memo No. 902-TE(I)-66/1191 dated 20.06.1957 in the name of project proponent. The total cost of the project is Rs. 118.77 crores. The total population of the University will be 6374 persons. Total water requirement for the project will be 875 KLD which will be met through the tubewells. The total wastewater generation from the project will be 700 KLD, which will be treated in a STP of 1 MLD capacity within the project premises. In Summer 1144 KLD of water will be required for irrigation @ 5.5 lt/sqm of green area. In winter 374 KLD of water will be required for irrigation @ 1.8 lit/sqm of green area, and remaining 326 KLD will be discharged on 10 acre of green area which will be developed under Kamal Technology. In monsoon 104 KLD of water will be required for irrigation @ 1.8 lit/sqm, and remaining 556 KLD will be discharged on 10 acre of green area which will be developed under

Karnal Technology. The project proponent has proposed to provide 12 rainwater harvesting pits for tapping of rain water to recharge the aquifer out of which 4 have already installed. 58555 kl/year of rainwater will be harvested and recharged. The total quantity of solid waste to be generated from the proposed project has been estimated as 2.6 MT/Day, The solid waste will be segregated to biodegradable and non-biodegradable waste as per MSW Rules, 2000. The recyclable inorganic waste will be sold to local resellers. Separate area will be earmarked for handling of solid waste. Biodegradable waste shall be recycled by using mechanical composter. Any excess waste or non-usable will be sent to authorized dumping site for which NOC from MC has already been obtained. The e-waste is handled and managed as per the E-waste (Management & Handling) Rules, 2011. The used oil from the D.G. sets is sold out to the registered recyclers as per the provisions of the Hazardous Waste (Management, Handling & Transboundary Movement), Rules, 2008.

The total load of electricity required for proposed project is 5915 KW which is supplied by PSPCL. The project proponent has proposed to install 8 DG sets 3 of 400 KVA, 1 of 500KVA, 1 of 380KVA, 1 of 320 KVA, 1 of 120 KVA and 1 of 115 KVA capacity for backup power supply. Solar mixed street lighting has been proposed for the conservation of energy and LED lights shall be used for lighting.

Sh. Gurbinder Singh, Registrar of Thapar University, Patiala, will be responsible for implementation of EMP (Environment Management plan) / CSR (Corporate Social Responsibility). Rs. 240 lacs will be incurred for implementation of EMP as capital cost and Rs.11 Lacs will be incurred as recurring cost., 1% of total project cost i.e Rs. 1.1 crore will be used for CSR which, beside other things, will include:

A. EDUCATION

i) Providing toilet facilities in nearby schools for girls.
ii) Adoption of schools for providing better infrastructures
iii) Scholarships to meritorious students in and around the area.
iv) Programs for primary education, specifically for girl children in and around the area.

B. HEALTH

i) Medical facilities, periodical health check-up and vaccination for construction labour during

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C. **CORPORATE SOCIAL RESPONSIBILITY**

i) Medical facilities, periodical health check-up and vaccination for construction labour during construction period.

ii) Dispensary for welfare of villager at the space offered by the villagers.

iii) Organizing Health camps in villages adjoining the project site.

D. **SOCIAL AWARENESS PROGRAMMES**

On issues like saving and well-upbringing of girl child, discouraging of alcohol, family feuds, etc., promoting tree plantations, rain water recharging, solar street lighting system in and around the area, etc

The case was considered by the SEIAA in its 73rd meeting held on 31.10.2014 and decided to issue directions under section 5 of the Environment (Protection) Act, 1986 as delegated by Ministry of Environment & Forests vide notification No. S.O. 637 (E) dated 28.02.2014 to restrain the promoter company from carrying out any further construction or operation activity of the project till the environmental clearance under EIA notification dated 14.09.2006 is obtained. The said directions were issued vide letter no. 3287 dated 07.11.2014.

The case was considered by the SEAC in its 103rd meeting held on 18.11.2014 wherein, the ToRs were issued to the project proponent vide letter no. 3491 dated 26.11.2014. The case was lastly considered by the SEAC in its 117th meeting held on 20.05.2015, wherein, the Committee observed that the project proponent has provided adequate and satisfactory clarifications of the observations raised by it, therefore, the Committee awarded **'Silver Grading'** to the project proposal and decided to forward the case to the SEIAA with the recommendation to grant environmental clearance to the project proponent under EIA notification dated 14.09.2006 subject to certain conditions in addition to the proposed measures.

Thereafter, the case was considered by the SEIAA in its 88th meeting held on 28.02.2015. The SEIAA observed that the case stands recommended by SEAC and the Committee awarded **'Silver Grading'** to the project proposal. The Authority looked into all the aspects of the project proposal in detail and was satisfied with the same.

Therefore, the Authority decided to grant environmental clearance for development of their Project namely "Thapar University" in an area of 249.13 acres

having total built up area 3,09,416.91 sqm at Bhadson Road, Patiala, Punjab, 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 strict compliance of terms and conditions as follows:

PART A – 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) A first aid room will be provided in the project both during construction and operation phase of the project.

(iv) 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.

(v) 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.

(vi) 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. 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 neighbouring communities and be disposed off after taking the necessary precautions for general safety and health aspects of people with the approval of competent authority.

(iii) Construction spoils, including bituminous material and other hazardous material, must not be allowed to contaminate watercourses and the dump sites for such material must be secured, so that they should not leach into the groundwater.

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(iv) Construction/provision of the STP, 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

(v) 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 and noise emission standards.

(vi) Ambient noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase.

(vii) Fly ash should be used as construction material 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 (This condition is applicable only if the project is within 100 Km of Thermal Power Station).

(viii) Ready mixed concrete should be used in building construction as far as possible.

(ix) Water demand during construction should be reduced by use of premixed concrete, curing agents and other best practices.

(x) The project proponent shall adopt dual plumbing system for reuse of treated wastewater for flushing system & HVAC etc

(xi) Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.

(xii) Adequate steps shall be taken to conserve energy by limiting the use of glass, provision of proper thermal insulation and taking measures as prescribed under the Energy Conservation Building Code.

(xiii) 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.

(xiv) The diesel generator sets to be used during construction phase should be of low sulphur diesel type and should conform to the provisions of Environment (Protection) Act, 1986 prescribed for air and noise emission standards.

(xv) The project proponent will provide dual plumbing system for reuse of treated wastewater for flushing/ HVAC 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: (for reuse)	Green
d.	Treated wastewater: (for discharge)	Yellow
e.	Storm water:	Orange

(xvi) The installation of sewage treatment plant (STP) and adequacy of disposal system should be certified by Punjab Pollution Control Board and a report in

this regard should be submitted to the Ministry of Environment & Forests/State Level Environment Impact Assessment Authority before the project is commissioned for operation.

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 project proponent shall discharge all the treated waste water within the project premises onto land for irrigation/ plantation.

iii) 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. and shall maintain a record of readings of each such meter on daily basis.

iv) The position / location of the STP, tubewell, DG Sets, Utilities etc, installed by the project proponent as per the provisions made in the layout plan, should not be changed later-on under any circumstances.

v) Rainwater harvesting for rooftop run-off should be implemented. Before recharging the rooftop run-off, pretreatment must be done to remove suspended matter, oil and grease. However, run off from gardens/green area/roads/pavements may also be connected with the ground water recharging system after adequate treatment as per the CGWA guidelines.

vi) The solid waste generated should be properly collected and segregated. The recyclable solid waste shall be sold out to the authorized vendors and inert shall be sent to disposal facility. The Bio-degradable solid waste shall be adequately treated as per the scheme submitted by the project proponent. Prior approval of competent authority should be obtained, if required.

vii) Adequate & appropriate pollution control measures should be provided to control fugitive emissions to be emitted within the complex.

viii) Hazardous waste/E-waste should be disposed off as per Rules applicable and with the necessary approval of the Punjab Pollution Control Board.

ix) Incremental pollution loads on the ambient air quality, noise and water quality should be periodically monitored.

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 shall obtain completion and occupancy certificate from the Competent Authority and submit a copy of the same to the SEIAA, Punjab.

xii) Adequate treatment facility for drinking water shall be provided, if required.

xiii) 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. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous species/variety.

xiv) 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/ State Level Environment Impact Assessment Authority within three months.

xv) Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating.

xvi) A report on the energy conservation measures conforming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about machinery of air conditioning, lifts, lighting, building materials, R & U Factors etc. and submitted to the respective Regional office of MoEF, the Zonal Office of CPCB and the SPCB/SEIAA in three months time.

xvii) Environmental Management Cell shall be formed during operation phase which will supervise and monitor the environment related aspects of the project.

xviii) Ambient noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase.

xix) Separation of drinking water supply and treated sewage supply should be done by the use of different colors.

xx) Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.

PART B – General Conditions :

I. Pre-Construction Phase

i) This environmental clearance will be valid for a period of five years from the date of its issue or till the completion of the project, whichever is earlier.

ii) 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.

iii) 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. The project proponent shall also obtain permission from the NBWL, if applicable.

iv) 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.

v) These stipulations would be enforced among others under the provisions of Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, Environmental (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.

vi) 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

vii) The project proponent shall comply with the conditions imposed by the Competent Authority while granting CLU vide letter no. 13157 dated 16.09.2013.

viii) 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.

ix) 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.

II. Construction Phase

i) 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.

ii) The entire cost of the environmental management plan (i.e. capital cost as well as recurring cost) will continue to be borne by the project proponent until the responsibility of environmental management plan is transferred to the occupier/residents society under proper MOU after obtaining prior permission of the Punjab Pollution Control Board.

iii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by mail) to the respective Regional office of MoEF, the Zonal Office of CPCB, the SPCB and SEIAA, Punjab.

iv) 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 CCF, Regional Office of Ministry of Environment & Forests, Chandigarh and State Level Environment Impact Assessment Authority, Punjab.

v) 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.

vi) Separate distribution pipelines be laid down for use of treated effluent / raw water for horticultural/gardening purposes with different colour coding.

vii) The project proponent shall adhere to the commitments made in the Environment Management Plan and Corporate Social Responsibility and shall spend the amount as proposed or atleast minimum required to be spent under the provisions of the Companies Act 1956, whichever is higher.

viii) 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.

ix) Separation of drinking water supply and treated sewage supply should be done by the use of dual plumbing line.

III. Operation Phase and Entire Life

i) 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.

ii) The project proponent shall ensure that there will be no problem/ public nuisance due to parking of vehicles outside the campus.

iii) The entire cost of the environmental management plan (i.e. capital cost as well as recurring cost) will continue to be borne by the project proponent until the responsibility of environmental management plan is transferred to the occupier/residents society under proper MOU after obtaining prior permission of the Punjab Pollution Control Board.

iv) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by mail) to the respective Regional office of MoEF, the Zonal Office of CPCB, the SPCB and SEIAA, Punjab.

v) 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 CCF, Regional Office of Ministry of Environment & Forests, Chandigarh and State Level Environment Impact Assessment Authority, Punjab.

vi) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; $PM_{2.5}$, PM_{10}, SO_2, NO_x, CO, Pb, Ozone (ambient air as well as stack emissions) shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

vii) The project proponent shall adhere to the commitments made in the Environment Management Plan and Corporate Social Responsibility and shall spend the amount as proposed or atleast minimum required to be spent under the provisions of the Companies Act 1956, whichever is higher. The project proponent shall submit 6 monthly compliance report of implementation of CSR activities.

x) 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.

Member Secretary (SEIAA)

Endst. No._____ **Dated**_____

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, Patiala.
5. The Chairman, Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala.
6. The Chief Conservator of Forests (North), Ministry of Environment and Forest, Regional Office, Bays No.24-25, Sector–31-A, Chandigarh.
7. The Chief Town Planner, Department of Town and Country Planning, Punjab, 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 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. Gurbinder Singh, Registrar
b)	Mobile/Phone No.	0175-2364498
c)	E-mail	registrar@thapar.edu

10. The Environmental Engineer (Computers), Punjab Pollution Control Board, Head Office, Patiala for uploading this document on the web site of the State Level Environment Impact Assessment Authority.

Member Secretary (SEIAA)

Thapar University, Bhadson Road, Patiala

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY PUNJAB
Ministry of Environment and Forests, Government of India
C/O Punjab Pollution Control Board,
Vatavaran Bhawan, Nabha Road,
Patiala – 147 001
Telefax: 0175-2215636

No. SEIAA/ 914 **REGISTERED** Dated: 25.01.2016

To

Sh. Gurbinder Singh, Registrar
Thapar University, Bhadson Road,
Patiala.

Subject: **Application for obtaining Environmental Clearance under EIA notification dated 14.09.2006 for expansion of "Thapar University" in the revenue estate of Thapar University, Bhadson Road, Patiala**

This has reference to your application and subsequent presentation given before the State Level Expert Appraisal Committee (SEAC) 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, 2006 on the basis of the mandatory documents enclosed with the application viz., Form 1, 1-A, conceptual plan, EIA study report and the additional clarifications furnished in response to the observations of the SEAC.

It is inter-alia noted that the proposal involves expansion of construction of project namely "Thapar University" at Bhadson Road, Patiala, Punjab. The total land area of the project before expansion was 1008194.06 sqm and after expansion will be 1008194.06 sqm. The land has been transferred, vide Memo No. 902-TE(J)-66/1291 dated 20.06.1967 in the name of project proponent. The total built up area before expansion was 309416.91 sqm and after expansion will be 333080.53 sqm. The total cost of the project is Rs. 111.67 crores. The total residential population of the University will be 9314 persons and the floating population will be 6410 person.

The total water requirement for the project before expansion was 875 KLD and after expansion will be 1.7 MLD.which will be met through the tubewells. The total wastewater generation from the project will be 1.27 MLD, which will be treated in a STP to be installed within the project premises.

The project proponent has proposed to use 333 KL/day of treated wastewater for flushing purpose, and remaining 937 KL/day will be used for irrigation of green area in summer season. In winter season, 333 KL/day of treated wastewater will be used for flushing purpose, and 422 KL/day will be used for irrigation of green area. In rainy season, 333 KL/day of treated wastewater will be used for flushing purpose and 117 KL/day will be used for irrigation of green area. Excess treated wastewater will be used for 10 acres of land available under Karnal Technology. Treated waste water will also be used for the construction purpose.

The project proponent has already provided 12 rainwater harvesting pits before expansion for tapping of rain water to recharge the aquifer. Additional 8 nos. of rainwater recharging pits will be established in the proposed expansion..

The solid waste generation from the existing site is 2.6 MT/Day and the total solid waste generation after expansion of the proposed project during operation phase has been estimated about 4.9 MT/Day. The provision of chute system will be made in new blocks to be added for collection of solid waste. The solid waste is segregated to biodegradable and non-biodegradable waste as per MSW Rules, 2000. The recyclable inorganic waste is sold to local resellers. Separate area is earmarked for handling of solid waste. Biodegradable waste shall be recycled by using mechanical composter Any excess waste or non-usable is sent to authorized dumping site for which NOC from MC has already been obtained which is segregated into bio-degradable and non-biodegradable waste as per the MSW Rules, 2000. All excavated soil will be consumed within the campus for filling purposes and no soil will be disposed off outside.The e-waste is handled and managed as per the E-waste (Management & Handling) Rules, 2011.. The used oil from the D.G. sets is sold out to the registered recyclers as per the provisions of the Hazardous Waste (Management, Handling & Transboundary Movement), Rules, 2008.

The total load of electricity before expansion was 4140 KW and 8 DG sets 3 of 400 KVA, 1 of 500KVA, 1 of 380KVA, 1 of 320 KVA, 1 of 120 KVA and 1 of 115 KVA capacity for backup power supply. After expansion, the total load of electricity will be 8800 KW which will be taken from the PSPCL. The project proponent has also proposed to install additional 9 DG sets (7 of 750 KVA, 1 of 380KVA, 1 of 180KVA).LED lights has been proposed for the lighting. The following aspects have been proposed in design and specification to reduce the energy load of the proposed buildings:-

i. Use of highly efficient autoclaved aerated concrete block walls having low U- Values.
ii. Use of 50mm thick XPS board for overdeck insulation to reduce heat ingress to the structure.
iii. Natural ventilated common spaces.
iv. Use of solar water heating system.
v. Double glazed unitis with high performance glass for learning blocks.
vi. Use of efficient sanitary fixture for water saving.
vii. Highly efficient and CFC free refrigerant for chillers and AC units.

Sh. Gurbinder Singh, Registrar of Thapar University, Patiala, will be responsible for implementation of EMP (Environment Management plan) / CSR (Corporate Social Responsibility). Rs. 236 lacs will be incurred for implementation of EMP as capital cost and Rs.11 Lacs will be incurred as recurring cost.. 1% of total project cost i.e Rs. 1.356 will be used for CSR which, besides other things, includes support to build IT infrastructure in computer lab at ITI Patiala and BN Khalsa school, patiala, Support to provide lab facilities for modern education & training for students in civil server course, adoption of Govt. School at village ablowal for construction and face lift of toilets and drinking water facility, plantation and cleanliness drive in and around university campus, blood donation camps, health checkup camps, old age home support services, construction of bus shelters, water

treatment plant in school at Ablowal, CCTV camera to Patiala police, computer and furniture to women polytechnic, toilet in environment part and civil lines, scholarship merit scheme.

The case was considered by the SEAC in its 134th meeting held on 23.10.2015 wherein, the ToRs were issued to the project proponent vide letter no. 5468 dated 18.11.2015. The case was lastly considered by the SEAC in its 137th meeting held on 04.12.2015, wherein, the Committee observed that the project proponent has provided adequate and satisfactory clarifications of the observations raised by it, therefore, the Committee awarded **'Silver Grading'** to the project proposal and decided to forward the case to the SEIAA with the recommendation to grant environmental clearance to the project proponent under EIA notification dated 14.09.2006 subject to certain conditions in addition to the proposed measures.

Thereafter, the case was considered by the SEIAA in its 101st meeting held on 13.01.2016.The SEIAA also observed that the case stands recommended by SEAC and the Committee awarded **'Silver Grading'** to the project proposal. The SEIAA looked into the details of the case and was satisfied with the same. Therefore, the Authority decided to accept the recommendations of SEAC and grant environmental clearance to the project proponent for expansion of "Thapar University in an area of 249.13 acres having total built up area 3,33,080.53 sqm at Bhadson Road, Patiala, Punjab, 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 strict compliance of terms and conditions as follows:

PART A – Specific Conditions:

III. 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) A first aid room will be provided in the project both during construction and operation phase of the project.

(iv) 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.

(v) 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.

(vi) 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.

IV. 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 neighbouring communities and be disposed off after taking the necessary precautions for general safety and health aspects of people with the approval of competent authority.

(iii) Construction spoils, including bituminous material and other hazardous material, must not be allowed to contaminate watercourses and the dump sites for such material must be secured, so that they should not leach into the groundwater.

(iv) Construction/provision of the STP, 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

(v) 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 and noise emission standards.

(vi) Ambient noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase.

(vii) The project proponent shall use only treated sewage/wastewater for construction activities and no fresh water for this purpose will be used. The project proponent shall treat sewage with UV/Ozonator technology prior to use in construction activities.

(viii) Fly ash should be used as construction material 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 (This condition is applicable only if the project is within 100 Km of Thermal Power Station).

(ix) Water demand during construction should be reduced by use of premixed concrete, curing agents and other best practices. Ready mixed concrete should be used in building construction as far as possible.

(x) The project proponent shall adopt dual plumbing system for reuse of treated wastewater for flushing system & HVAC etc.

(xi) Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.

(xii) Adequate steps shall be taken to conserve energy by limiting the use of glass, provision of proper thermal insulation and taking measures as prescribed under the Energy Conservation Building Code.

(xiii) 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.

(xiv) The diesel generator sets to be used during construction phase should be of low sulphur diesel type and should conform to the provisions of Environment (Protection) Act, 1986 prescribed for air and noise emission standards.

(xv) The project proponent will provide dual plumbing system for reuse of treated wastewater for flushing/ HVAC 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 (for reuse)	:	Green
d.	Treated wastewater (for discharge)	:	Yellow
e.	Storm water:		Orange

(xvi) The installation of sewage treatment plant (STP) and adequacy of disposal system should be certified by Punjab Pollution Control Board and a report in this regard should be submitted to the Ministry of Environment & Forests/State Level Environment Impact Assessment Authority before the project is commissioned for operation.

(xvii) The project proponent shall provide chute system in new blocks to be added for collection of solid waste. The solid waste generated should be properly collected and proper onsite storage facility (covered) should be provided at site.

(xviii) The Project Propoent shall provide solar power plant of capacity 3.0 Mega Watt for its expansion project.

V. 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 1.70 ML/day, which shall be met through own tubewell.

iii) The total wastewater generation from the project will be 1270 KL/day, which will be treated in a STP of capacity 1500 KL/day to be installed within the project premises. As proposed, 333 KL/day of treated wastewater shall be used for flushing purpose, 937 KL/day for irrigation of green area and remaining excess treated water shall be discharged into sewer in summer season. In winter season, 333 KL/day of treated wastewater will be used for flushing purpose, 422 KL/day for irrigation of green area and remaining excess treated water will be discharged into sewer. In rainy season, 333 KL/day of treated wastewater will be used for flushing purpose, 117 KL/day for irrigation of green area and remaining excess treated water will be discharged into sewer. The Project Propoent shall develop 10 acres land under Karnal technology to utilize all excess treated waste water.

iv) 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. and shall maintain a record of readings of each such meter on daily basis.

v) The position / location of the STP, tubewell, DG Sets, Utilities etc, installed by the project proponent as per the provisions made in the layout plan, should not be changed later-on under any circumstances.

vi) Rainwater harvesting for rooftop run-off only should be implemented. Before recharging the rooftop run-off, pretreatment must be done to remove suspended matter, oil and grease.

vii) The solid waste generated should be properly collected and segregated. The recyclable solid waste shall be sold out to the authorized vendors and inert shall be sent to disposal facility. The Bio-degradable solid waste shall be composted through mechanical composter. Prior approval of competent authority should be obtained, if required.

viii) Adequate & appropriate pollution control measures should be provided to control fugitive emissions to be emitted within the complex.

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) Incremental pollution loads on the ambient air quality, noise and water quality should be periodically monitored.

xi) 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.

xii) The project proponent shall obtain completion and occupancy certificate from the Competent Authority and submit a copy of the same to the SEIAA, Punjab.

xiii) Adequate treatment facility for drinking water shall be provided, if required.

xiv) 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. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous species/variety.

xv) 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/ State Level Environment Impact Assessment Authority within three months.

xvi) Application of solar energy should be incorporated for illumination of common areas, lighting for gardens and street lighting in addition to provision for solar water heating.

xvii) A report on the energy conservation measures conforming to energy conservation norms finalized by Bureau of Energy Efficiency should be prepared incorporating details about machinery of air conditioning, lifts, lighting, building materials, R & U Factors etc. and submitted to the respective Regional office of MoEF, the Zonal Office of CPCB and the SPCB/SEIAA in three months time.

xviii) Environmental Management Cell shall be formed during operation phase which will supervise and monitor the environment related aspects of the project.

xix) Ambient noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase.

xx) Separation of drinking water supply and treated sewage supply should be done by the use of different colors.

xxi) Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.

PART B – General Conditions :

I. Pre-Construction Phase

i) This environmental clearance will be valid for a period of five years from the date of its issue or till the completion of the project, whichever is earlier.

ii) 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.

iii) 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. The project proponent shall not start any construction activity at site without obtaining permission from NBWL...

iv) 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.

v) These stipulations would be enforced among others under the provisions of Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, Environmental (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.

vi) 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.

vii) The project proponent shall obtain CLU from the competent authority, if any authority insists.

viii) 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.

ix) 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.

x) The environmental clearance is subject to their obtaining prior clearance from Forestry & Wildlife angle including clearance from Standing Committee of the National Board for Wildlife as applicable. The grant of environmental clearance does not necessarily implies that forestry & wildlife clearance shall be granted to the project and proposal for forestry & wildlife clearance will be considered by the respective authorities on their merits and decision taken. The investment made in the project, if any, based on environmental clearance so granted, in anticipation of the clearance from Forestry & Wildlife angle shall be entirely at the cost & risk of the project proponent and Ministry of Environment, Forests & Climate Change/SEIAA, Punjab shall not be responsible in this regard in any manner.

II. Construction Phase

i) 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.

ii) The entire cost of the environmental management plan (i.e. capital cost as well as recurring cost) will continue to be borne by the project proponent until the responsibility of environmental management plan is transferred to the occupier/residents society under proper MOU after obtaining prior permission of the Punjab Pollution Control Board.

iii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by mail) to the respective Regional office of MoEF, the Zonal Office of CPCB, the SPCB and SEIAA, Punjab.

iv) 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 CCF, Regional Office of Ministry of Environment & Forests, Chandigarh and State Level Environment Impact Assessment Authority, Punjab.

v) 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.

vi) Separate distribution pipelines be laid down for use of treated effluent / raw water for horticultural/gardening purposes with different colour coding.

vii) The project proponent shall adhere to the commitments made in the Environment Management Plan and Corporate Social Responsibility and shall spent the amount as proposed or atleast minimum required to be spent under the provisions of the Companies Act 1956.

viii) 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.

ix) Separation of drinking water supply and treated sewage supply should be done by the use of dual plumbing line.

III. Operation Phase and Entire Life

i) 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.

ii) The entire cost of the environmental management plan (i.e. capital cost as well as recurring cost) will continue to be borne by the project proponent until the responsibility of environmental management plan is transferred to the occupier/residents society under proper MOU after obtaining prior permission of the Punjab Pollution Control Board.

iii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by mail) to the respective Regional office of MoEF, the Zonal Office of CPCB, the SPCB and SEIAA, Punjab.

iv) 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 CCF, Regional Office of Ministry of Environment & Forests, Chandigarh and State Level Environment Impact Assessment Authority, Punjab.

v) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; $PM_{2.5}$, PM_{10}, SO_2, NO_x, CO, Pb, Ozone (ambient air as well as stack emissions) shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

vi) The project proponent shall adhere to the commitments made in the Environment Management Plan and Corporate Social Responsibility and shall spent the amount as proposed or atleast minimum required to be spent under the provisions of the Companies Act 1956.

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.

Sd/-
Member Secretary (SEIAA)

Endst. No. 915-24 **Dated 25.01.2016**

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, Patiala.
5. The Chairman, Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala.
6. The Chief Conservator of Forests (North), Ministry of Environment and Forest, Regional Office, Bays No.24-25, Sector–31-A, Chandigarh.

7. The Chief Town Planner, Department of Town and Country Planning, Punjab, 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 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. Gurbinder Singh, Registrar
b)	Mobile/Phone No.	0175-2364498
c)	E-mail	registrar@thapar.edu

10. The Environmental Engineer (Computers), Punjab Pollution Control Board, Head Office, Patiala for uploading this document on the web site of the State Level Environment Impact Assessment Authority.

Sd/-
Member Secretary (SEIAA)

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F. No. IA3-10/7/2021-IA.III
Government of India
Ministry of Environment, Forest and Climate Change
(IA.III Section)

Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi - 3
Tel: 011-24695363 Email: lk.bokolia@nic.in

Date: 12th March, 2021

To,

Dr. Gurbinder Singh, Registrar
M/s. Thapar Institute of Engineering and Technology
Bhadson Road,
Patiala, Punjab-147004
Email: thaparinstitute20@gmail.com

Subject: Environment Clearance for Expansion of Educational Institute namely "Thapar Institute of Engineering and Technology (Deemed to be University)" from built up area from 3,33,080.53 sq m to 4,45,678.09 sqm at Khasra No. 926(6-5), 939 (7-13), 940 (5-18), etc., Bhadson Road, Patiala, Punjab, by M/s. Thapar Institute of Engineering and Technology – Regarding

Sir,

This has reference to your Application/ Proposal No. IA/PB/MIS/191842/2020; received on 11th January, 2021 through Parivesh Portal for grant of Environment Clearance (EC) for Expansion of Educational Institute namely "Thapar Institute of Engineering and Technology (Deemed to be University)" from built up area from 3,33,080.53 sq m to 4,45,678.09 sq m at Khasra No. 926(6-5), 939 (7-13), 940 (5-18), etc., Bhadson Road, Patiala, Punjab by M/s. Thapar Institute of Engineering and Technology.

2. As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006; as amended and notified under the Environment (Protection) Act, 1986 (29 of 1986), the above-mentioned project/activity is covered under category 'B' of item 8(b) 'Townships and Area Development Projects' of the Schedule to the EIA Notification, 2006 and its subsequent amendments, and requires appraisal at State level. However, due to absence of SEIAA/SEAC in Punjab, the proposal required appraisal at Central level by sectoral EAC.

3. Accordingly, the abovementioned proposal for grant of Environmental Clearance, has been examined by the Expert Appraisal Committee (Infra-2) in its 60th meeting held during 27th – 28th January, 2021.

4. The details of the project, as per the Application and documents submitted by the project proponent, and also as informed during the above-mentioned meetings of EAC (Infra-2) are as under:

i. The project is located at Bhadson Road, Patiala, Punjab with coordinated 30°21'24.78"N Latitude and 76°21'31.05"E Longitude.

ii. The project is an expansion.

iii. Earlier, Environmental Clearance was obtained from SEIAA, Punjab vide Letter No. SEIAA/3777 dated 26.06.2015. Subsequently, the Environmental Clearance for expansion has also been obtained from SEIAA, Punjab vide Letter No. SEIAA/914 dated 25.01.2016. At present, 3,27,516.57sqm of construction has been done out of 3,33,080.53 sqm of built-up area as per earlier granted Environmental Clearance.

iv. ToR was issued by SEIAA, Punjab vide Letter No. SEIAA/2019/1747 dated 29.07.2020. Point-wise ToR compliance has been submitted along with EIA report.

v. The total plot area after expansion will remain same i.e., 10,08,194.06sqm (or 249.13 acres). However, built-up area will be increased to 3,27,516.57sqm to 4,45,678.09sqm. The proposed additional buildings are Guest house, sports center, etc. Maximum height of the building is 30m. The details of the proposed buildings are as follows:

Building Name	**Floors**	**G.F**	**1st Floor**	**2nd Floor**	**3rd Floor**	**4th Floor**	**5th Floor**	**6th Floor**	**7th Floor**	**8th Floor**	**Total area (sq. ft.)**
Venture Lab	G+3	10,600	9,800	9,800	9,800						40,000
Guest House	G+2	12,000	9,000	9,000							30,000
Sports Center	G+1	30,750	30,750	SWIMMING POOL AREA (1,3500)							75,000
New Boys Hostel-M	G+8	38,500	38,500	29,000	29,000	29,000	29,000	29,000	29,000	29,000	2,80,000
New Boys Hostel 1250 PAX	G+8	42,000	42,000	33,000	33,000	33,000	33,000	33,000	33,000	33,000	3,15,000
New SS-7	G+1	13,000	12,000	0	0	0	0	0	0	0	25,000
Research Center	G+6	11,800	9,700	9,700	9,700	9,700	9,700	9,700			70,000
Proposed 2nd Floor of Laboratory Block II	G+2	0	0	7,000							7,000
Faculty Residences two towers	G+8	15,400	15,575	15,575	15,575	15,575	15,575	15,57	15,575	15,575	1,40,000

FRF & FRG								5			
Faculty Offices	G+3	9,000	7,000	7,000	7,000						30,000
Lecture Theatre	G+4	22,000	19,500	19,500	19,500	19,500					1,00,000
Multi story Parking	G+2	34,000	33,000	33,000							1,00,000
Total											**12,12,000 sq. ft. or 1,12,597. 56 sqm.**

vi. During construction phase, total water requirement is expected to be 20 KLD, which shall be met by treated water from already installed STP. During the construction phase, mobile toilets shall be provided. The wastewater generated from the toilets shall be treated in already installed STP.

vii. During operational phase, total water requirement of the project is expected to be 1,279 KLD and the same will be met by 826 KLD fresh water from 4 existing tube wells and 453 KLD of recycled water from the existing onsite STP. Wastewater generated (945 KLD) will be treated in already installed STP of 2.3 MLD capacity. 926 KLD of treated wastewater will be recycled and re-used (355 KLD for flushing and rest for green area demand and excess to 10 acres of land under Karnal Technology).

viii. About 5.36 TPD of solid waste will be generated in the project. The biodegradable waste (2.416 TPD) will be processed in installed Mechanical Composter of 7 Ton capacity and the non-biodegradable/domestic hazardous waste generated (2.944 TPD) will be handed over to authorized local vendor.

ix. The total power requirement during construction phase and operation phase is 150 KW and 8600 KW respectively, which will be met from Punjab State Power Corporation Limited (PSPCL).

x. Overall, 31 Rain water harvesting (RWH) pits have been proposed. As per previous EC dated 25.01.2016, 20 RWH pits were proposed, out of which, 15 RWH pits have been constructed. Additional 11 no. of RWH pits with dual bore will be provided for proposed buildings for artificial rain water recharge within the project premises.

xi. Total Parking area proposed is 45,503 sqm out of which, 9,290 sqm. area has been reserved for multi-story parking.

xii. Proposed energy saving measures would save about 35% of power.

xiii. Comparative analysis of existing /envision pollution load is as follows:

S. No.	Description	As per EC Accorded dated 25.01.2016	Proposed	Total (After Expansion)
1.	Total Plot Area	249.13 acres		
2.	Built up Area	3,33,080.53 sqm	1,12,597.56sq.m.	4,45,678.09sqm
3.	Estimated Population	15,724 Persons	500 Persons	16,224Persons (Residential: 10,614 Persons Floating: 5,610 Persons)
4.	Domestic Water Demand	1,700 KLD	-519 KLD	1,181 KLD*
5.	Wastewater generated	1300 MLD	-355 KLD	945 KLD
6.	STP capacity	Existing STP of 1 MLD capacity & additional 500 KLD	Upgraded STP of 2.3 MLD capacity	Already installed STP of 2.3 MLD capacity
7.	Solid waste generation	4,900 kg/day	468 kg/day	5,368 kg/day
8.	Rain water recharging Pits	20Recharge Pits (out of these 15 pits have been constructed)	Additional 11 Recharge pits	Total 31 Recharge Pits
9.	Power Load	Existing load 4600 KW	4000 KW	8600 KW
10.	DG sets	As per EC accorded, 17 DG sets (7 of 750 KVA capacity, 1 of 500 KVA, 3 of 400 KVA, 2 of 380 KVA, 1 of 320 KVA, 1 of 120 KVA, 1 of 180	4 DG Sets of 750 KVA	18 DG sets (9 of 750 capacity, 1 of 500 KVA, 3 of 400 KVA, 2 of

		KVA and 1 of 115 KVA) were proposed. But, 14 DG sets i.e. 5 of 750 KVA, 1 of 500 KVA, 3 of 400 KVA, 2 of 380 KVA, 1 of 320 KVA and 2 of 325 KVA have already been installed.	capacity	380 KVA, 1 of 320 KVA and 2 of 325 KVA capacity)

Note: Water requirement has been reduced as compared to earlier EC due to usage of water efficient fixtures; (-) indicates a decrease in value.

xiv. The project is not located in Critically Polluted area.

xv. Bir Moti Bagh Wildlife Sanctuary at distance of 5.5 km from project location. However, eco-sensitive zone of the Bir Moti Bagh Wildlife Sanctuary is only up to an area of 100 m all around the boundary of the sanctuary comprising an area of approx.111.10 hectares. NBWL clearance is not required as project is outside the eco-sensitive zone of the Bir Moti Bagh Wildlife Sanctuary.

xvi. Forest Clearance is not required for the project.

xvii. No court case is pending against the project.

xviii. Total Green area is 2,36,885 sqm. No tree felling is proposed.

xix. Expected timeline for completion of the project is December, 2024.

xx. Investment/Cost of the project is Rs. 1097.4 crores.

xxi. Employment potential: 100 persons during construction phase and 1020 persons during operation phase.

xxii. Benefits of the project: Providing better educational facility and other curricular activities to the students and staff.

5. The EAC also noted that the PP has obtained certified compliance report from MOEFCC Northern Regional Office, Chandigarh dated 29.09.2020. As per the report, no major non compliances were observed during the site visit dated 10.09.2020. However, implementation of solar energy with other conservation measures and taking authorization hazardous waste from SPCB are yet to be implemented and as such on this PP has committed to comply.

6. The EAC, based on information and clarifications provided by the project proponent and detailed discussions held on the issues, has recommended granting environment clearance to the project. The aforesaid recommendation of EAC (Infra-2) is subject to certain specific conditions, as stipulated during its 60th meeting held during 27th - 28th January, 2021.

7. Based on recommendations of EAC (Infra-2), the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the

project for 'Expansion of Educational Institute namely "Thapar Institute of Engineering and Technology (Deemed to be University)" from built up area from 3,33,080.53 sq m to 4,45,678.09 sqm at Khasra No. 926(6-5), 939 (7-13), 940 (5-18), etc., Bhadson Road, Patiala, Punjab, by M/s. Thapar Institute of Engineering and Technology', under the provisions of the EIA Notification, 2006 and amendments/circulars issued thereon, and subject to the following specific and standard conditions:

A. Specific Conditions:

i. As committed, PP shall develop solar power generation capacity of 3MW and implement the condition of existing EC with regard to energy conservation.

ii. Area for greenery shall be provided as per the details provided in the project document i.e., area under plantation/greenery will be 2,36,885 sqm. As proposed, at least 27,634 trees shall be maintained during the operation phase of the project. The landscape planning should include plantation of native species. A minimum of 01 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. Plantations to be ensured species (cut) to species (planted). The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.

iii. Abstraction of ground water shall be subject to the permission of Central Ground Water Authority (CGWA) and ground water recharge shall conform to CGWA norms or norms prescribed by the local authorities. Fresh water requirement shall not exceed 826 KLD during operational phase

iv. As proposed, waste water shall be treated in an onsite STP of total 2.3 MLD capacity. Atleast 926 KLD of treated wastewater shall be recycled and re-used (355 KLD for flushing and rest for green area demand and excess to 10 acres of land under Karnal Technology).

v. The project proponents would commission a third-party study on the implementation of conditions related to quality and quantity of recycle and reuse of treated water, efficiency of treatment systems, quality of treated water being supplied for flushing (specially the bacterial counts), comparative bacteriological studies from toilet seats using recycled treated waters and fresh waters for flushing, and quality of water being supplied through spray faucets attached to toilet seats.

vi. The local bye-law provisions on rain water harvesting should be followed. If local bye-law provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. As proposed, 31 RWH pits shall be provided for rain water harvesting after filtration as per the CGWB norms.

vii. The solid waste shall be duly segregated into biodegradable and non-biodegradable components and handled in separate area earmarked for segregation of solid waste, as per SWM Rules, 2016. As committed, biodegradable waste shall be composted by use of Composter. Inert

waste shall be dumped to authorized site. The recyclable waste shall be sold to resellers.

viii. The PP shall provide electric charging points in the parking areas for e-vehicles as committed.

ix. The Environmental Clearance to the project is primarily under provisions of EIA Notification, 2006. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes as applicable to the project.

I. Statutory compliance:

i. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byclaws.

ii. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc. as per National Building Code including protection measures from lightening etc.

iii. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1980, in case of the diversion of forest land for non-forest purpose involved in the project.

iv. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.

v. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.

vi. The project proponent shall obtain the necessary permission for drawl of ground water / surface water required for the project from the competent authority.

vii. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.

viii. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.

ix. The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste Management Rules, 2016, shall be followed.

x. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

II. Air quality monitoring and preservation:

i. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.

ii. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.

iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM_{10} and $PM_{2.5}$) covering upwind and downwind directions during the construction period.

iv. Diesel power generating sets proposed as source of backup power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use of low sulphur diesel. The location of the DG sets may be decided with in consultation with State Pollution Control Board.

v. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3 meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.

vi. Sand, murram, loose soil, cement, stored on site shall be covered adequately so as to prevent dust pollution.

vii. Wet jet shall be provided for grinding and stone cutting.

viii. Unpaved surfaces and loose soil shall be adequately sprinkled with water to suppress dust.

ix. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Management Rules 2016.

x. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise emission standards.

xi. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. Low sulphur diesel shall be used. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.

xii. For indoor air quality the ventilation provisions as per National Building Code of India.

III. Water quality monitoring and preservation:

i. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban

drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rain water.

ii. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.

iii. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office. MoEF&CC along with six monthly Monitoring reports.

iv. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.

v. At least 20% of the open spaces as required by the local building bye-laws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.

vi. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation, car washing, thermal cooling, conditioning etc. shall be done.

vii. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.

viii. Separation of grey and black water should be done by the use of dual plumbing system. In case of single stack system separate recirculation lines for flushing by giving dual plumbing system be done.

ix. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.

x. A rain water harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built-up area and storage capacity of minimum one day of total fresh water requirement shall be provided. In areas where ground water recharge is not feasible, the rain water should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.

xi. All recharge should be limited to shallow aquifer.

xii. No ground water shall be used during construction phase of the project.

xiii. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.

xiv. The quantity of fresh water usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with six monthly Monitoring reports.

xv. No sewage or untreated effluent water would be discharged through storm water drains.

xvi. Onsite sewage treatment of capacity of treating 100% waste water to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated waste water shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.

xvii. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be made to mitigate the odour problem from STP.

xviii. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Central Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

IV. Noise monitoring and prevention:

i. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.

ii. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

iii. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

V. Energy Conservation measures:

i. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.

ii. Outdoor and common area lighting shall be LED.

iii. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.

iv. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.

v. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building bye-laws requirement, whichever is higher.

vi. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building bye-laws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

VI. Waste Management:

i. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.

ii. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.

iii. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.

iv. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.

v. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.

vi. Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.

vii. Use of environment friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environment friendly materials.

viii. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September, 1999 and amended as on 27th August, 2003 and 25th January, 2016. Ready mixed concrete must be used in building construction.

ix. Any wastes from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Waste Management Rules, 2016.

x. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

VII. Green Cover:

i. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).

ii. Where the trees need to be cut with prior permission from the concerned local Authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.

iii. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

VIII. Transport

i. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
   a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
   b. Traffic calming measures.
   c. Proper design of entry and exit points.
   d. Parking norms as per local regulation.

ii. Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.

iii. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

IX. Human health issues:

i. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or

working in any area with dust pollution shall be provided with dust mask.

ii. For indoor air quality the ventilation provisions as per National Building Code of India.

iii. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.

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, 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.

v. Occupational health surveillance of the workers shall be done on a regular basis.

vi. A First Aid Room shall be provided in the project both during construction and operations of the project.

X. Miscellaneous:

i. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.

ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.

iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.

v. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

vi. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.

vii. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report

viii. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

ix. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.

x. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.

xi. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the Expert Appraisal Committee.

xii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).

xiii. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

xiv. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

xv. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

xvi. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

xvii. The above conditions shall be enforced, inter alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

xviii. Any appeal against this EC 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.

8. The Environmental Clearance is being granted to M/s. Thapar Institute of Engineering and Technology for Expansion of Educational Institute namely

"Thapar Institute of Engineering and Technology (Deemed to be University)" from built up area from 3,33,080.53sqm to 4,45,678.09 sqm at Khasra No. 926(6-5), 939 (7-13), 940 (5-18), etc., Bhadson Road, Patiala, Punjab.

9. This issue with the approval of the Competent Authority.

(Lalit Bokolia)
Director

Copy to:

1. Secretary, Department of Science & Technology and Environment, Government of Punjab, Punjab Civil Secretariat-2, 9A, Sector-9, Chandigarh-160009
2. Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office (Northern Zone), Bays No. 24-25, Sector 31 A, Dakshin Marg, Chandigarh – 160030
3. Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. Member Secretary, Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala- 147001, Punjab
5. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
6. Guard File/ MoEF&CC website.

(Lalit Bokolia)

Projects Photographs

Annexure 2


EV CHARGING STATION
CAR PULL

PUNJAB WATER REGULATION AND DEVELOPMENT AUTHORITY
SCO 149-152, SECTOR 17, CHANDIGARH – 160017

ad interim PERMISSION FOR EXTRACTION OF GROUNDWATER

Name of Unit	Thapar Institute of Engineering & Technology (Deemed to be University)	
Activity of Unit:	Institutional	
Address of Unit:	Thapar Institute of Engineering & Technology (Deemed to be University), Bhadson Road, District Patiala	PIN Code: 147004
Assessment Unit (Block):	Patiala	Category: Orange
District:	Patiala	
Correspondence Address:	Thapar Institute of Engineering & Technology (Deemed to be University), Bhadson Road, District Patiala	PIN Code: 147004
Unit ID	1120300551	
Permission Number	PWRDA/09/2022/1.2/467	Dated: 28.09.2022
Project Status:	Existing Unit	
Permission Type:	*ad-interim* Permission	
Validity Period:	For a period of three months from the date of publication of the final guidelines by the Authority, or for three years from the date of grant of this *ad interim* permission, whichever is earlier.	

Ground Water Extraction Permitted: 212 m^3/day

Fresh Water		Saline Water	
m^3/day	m^3/month*	m^3/day	m^3/month*
212	6,360	-	-

*Note:- Month is taken as 30 days for calculation of charges.

Fees and Charges Paid:

A. Application Fees for Groundwater Extraction:

Volume of Groundwater Extraction Applied For per day (in m3/day)	Fees Deposited (in Rs.)
212	20,000/-

B. Advance Deposit equivalent to two months of charges for the permitted quantity of groundwater extraction:

Category of Area	Extraction Permitted: (m^3/day)		212	Amount Deposited (Rs.)
	Charges for two months			2,49,840/-
Orange	<10 m^3/day	10-100 m^3/day	>100 m^3/day	
	4,800	97,200	1,47,840	

C. Tube-well Registration Fee paid:

No. of existing tube-wells	No. of Proposed tube-wells	No. of total tube-wells	Registration Fee applicable per tube-well	Total Registration Fee Paid (Rs.)
04	Nil	04	10,000/-	40,000/-

D. Total Amount Paid (Rs.):

Application Fee	Advance Deposit	Tube-well Registration Fee	Total(Rs.)
20,000/-	2,49,840/-	40,000/-	3,09,840/-

NOTE: This permission is granted in terms of the Draft Punjab Guidelines for Groundwater Extraction and Conservation published on November 12, 2020 under section 15 of the Punjab Water Resources (Regulation and Management) Act 2020 and is subject to the conditions given overleaf.

Dated: 28th Sep, 2022
Place: CHANDIGARH

Signature
Maninder Singh, A.O.L-2
Executive Engineer
Punjab Water Regulation and Development Authority
Chandigarh.

ad interim PERMISSION CONDITIONS

1) The permission is valid for a period of three months from the date of publication of the final guidelines by the Authority, or for three years from the date of grant of this ad interim permission, whichever is earlier. The unit will apply again for Permission within one month after the publication of the final Guidelines.
2) Since, this Permission has been issued on the basis of self-assessment by the applicant and without any site inspection or verification of documents submitted by the applicant, hence the Authority may inspect the unit and documents at any time. In case any material difference is found in the information submitted and the site conditions or documents, the Authority may suspend the permission granted immediately and may revoke or modify the permission after giving a notice to the Unit.
3) The unit shall comply with the provisions of the Punjab Water Resources (Management and Regulation) Act, 2020, and the Regulations and Directions issued there under.
4) A Unit operational prior to 12/11/2020 shall be liable to pay groundwater extraction charges w.e.f. 12th Nov, 2020. A unit which is yet to begin operations shall be liable to pay the charges from the date of commencement of extraction of groundwater.
5) The unit shall install a water meter meeting with the specification approved by the Authority at each of its extraction structures within sixty days of issue of this permission letter. (Refer Para 7.1 of the Draft Guidelines)
6) Till the installation of water meter the Unit shall pay the full amount for the entire volume of groundwater permitted.
7) The Unit shall self-record the water meter readings in the format set by the Authority on the first working day of every month and submit the same and pay the applicable charges to PWRDA by 10th of every month.
8) Units permitted to extract 50m^3/day or more groundwater shall communicate water level data to PWRDA in the first week of every month. (Refer para 7.2 of the Draft Guidelines).
9) This Permission does not absolve the unit of its obligations to obtain other required statutory and administrative clearances from appropriate authorities.
10) The issue of this Permission does not imply that other statutory or administrative clearances shall necessarily be granted to the unit by the concerned authorities.
11) This Permission is being issued without any prejudice to the directions of any court of law in cases related to groundwater or any other related matters.
12) Water conservation credit claims (if any) will be examined and verified separately.
13) In view of the Covid-19 epidemic, the Groundwater Charges in the Draft Guidelines will be reduced by 20% till July 31st, 2021.
14) Since, the unit has not paid the GST. Hence, it will be bound to deposit the same within 7 days as and when required by the Authority.

X----------X

BACK TO WEB PORTAL 4 Gurbinder

Annexure 3a

Dashboard
Steps To Apply
Groundwater Extraction
Register New Unit
Unit List
Application List
Transfer Unit
Water Tanker
Drilling Rig
Payment History
Credit History

PERMISSIONS OF GROUNDWATER EXTRACTION

Registered Units | Draft | Submitted | Approved | Rejected | Returned | Cancel / Suspension

Show 10 entries Search:

#	Unit Identification Number.	Unit Name	Unit Type	Mobile No.	Action
1	20230300278	Thapar Institute of Engineering & Technology(Deemed to be University)	Institutional	8288006119	Select Service

Showing 1 to 1 of 1 entries

Previous 1 Next

Sophisticated Analytical Instruments Laboratories Society

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Thapar Technology Campus, Bhadson Road, Patiala-147 004 (India)

TEST REPORT

Sample ID	NN(D)/23-24/189	Date	12.07.2023
Service No.	NN(D)/23-24/189 (01-04)	Customer's Ref.	Sample collected by Mr. Amit Kumar on dated 03.07.2023
Customer's name and address: **M/s Assistant Engineer, CMS Thapar Institute of Engineering and Technology, Patiala (Pb) Kind Attn.: Mr. Arvind Gupta**			
Sample Description		Effluent	
Condition of the sample received		O.K.	
Customer's sample identification No. (if any)		01- STP Inlet, 02- STP Outlet, 03- USAB Reactor 04- Aeration Tank	
Quantity/number of samples		10 Liter /4	
Sampling Procedure (if any)/ Standard/Specification		IS 3025 (Part-I) 1987 , Reaffirmed 2003, SAI/SOP/03/47	
Mode of Sampling/Environmental condition during transport		Grab Drawn/ Preserve in ice box	
Test parameters		01 - pH, TSS, TDS, BOD, COD, O&G, TKN, P 02 - pH, TSS, TDS, BOD, COD, O&G, TKN, P, DO, Faecal Coliform 03 - pH, VSS, Temperature, COD, BOD 04 - MLSS, MLVSS, Alkalinity	
Method followed		As mentioned below	
Deviations (if any)		--	
Documents constituting this report (if any)		--	

Date of Receipt of Job	Date of Completion of Job	Total Number of Pages
03.07.2023	11.07.2023	2

TEST RESULTS

S. No.	Parameters	Test Method	Unit	Results			
				01	02	03	04
1	pH at 25°C	APHA 23rd. Edn.4500-H+B:2017	--	7.6	7.7	7.4	--
2	Total Suspended Solid at 105°C	APHA 23rd. Edn.2540-D:2017	mg/l	192	14	--	--
3	Total Dissolved Solid at 180°C	APHA 23rd. Edn.2540-C:2017	mg/l	662	486	--	--
4	Chemical Oxygen Demand (COD)	APHA 23rd Edn. 5220B:2017	mg/l	168	39	43	--
5	Biochemical Oxygen Demand for 3 days at 27°C	IS: 3025 (Part 44)-1993 Reaff. 2019	mg/l	46	7.5	12	--
6	Oil & Grease at 80°C	APHA 23rd. Edn. 5520 B:2017	mg/l	6.4	<5.0	--	--
7	TKN	APHA 23rd. Edn. 4500 N_{org} B:2017	mg/l	15.6	9.58	--	--
8	Phosphorous as P	APHA 23rd. Edn. 4500-PC:2017	mg/l	4.45	3.06	--	--
9	Dissolved Oxygen	IS: 3025 (Part 38)-1989 reaff. 2019	mg/l	--	3.8	--	--
10	Volatile Suspended Solid (VSS) at 550°C	APHA 23rd. Edn.2540-D:2017	mg/l	--	--	26	--
11	Temperature	By thermometer	°C	--	--	28	--
12	Total Alkalinity as $CaCO_3$	APHA 23rd. Edn. 2320 B:2017	mg/l	--	--	--	398
13	MLSS at 105°C	APHA 23rd. Edn.2540-D:2017	mg/l	--	--	--	280
14	MLVSS at 550°C	APHA 23rd. Edn.2540 E:2017	mg/l	--	--	--	182

M. Agarwal
Technical Manager
(Authorized Signatory)

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Thapar Technology Campus, Bhadson Road, Patiala-147 004 (India)

TEST REPORT

Sample ID	NN(D)/22-23/189	Date:	12.07.2023
Service No.	NN(D)/22-23/189 (02)	Customer's Ref.	Sample collected by Mr. Amit Kumar on dated 03.07.2023
Customer's name and address:			
M/s Assistant Engineer, CMS Thapar Institute of Engineering and Technology, Patiala (Pb) Kind Attn.: Mr. Arvind Gupta			
Sample Description		Effluent	
Condition of the sample received		O.K	
Customer's sample identification No. (if any)		02- STP Outlet	
Quantity/number of samples		2 Liter / One	
Sampling Procedure (if any)		IS:3025 (Part-I) 1987 , Reaffirmed 2003	
Mode of Sampling		Grab Drawn	
Test parameters		02- Faecal Coliform	
Standard/Specification/Method followed		APHA 23rd End. , IS:3025, SAI/SOP/03/47	
Deviations (if any)		–	
Documents constituting this report (if any)		–	

Date of Receipt of Job	Date of Completion of Job	Total Number of Pages
03.07.2023	07.07.2023	2

TEST RESULTS

S. No.	Parameters	Test Method	Unit	Results
				02
1	Faecal Coliform	APHA 23rd Edn. 9221 E:2017	MPN/100ml	240

.....End of the report.....

M. Agarwal
Technical Manager
(Authorized Signatory)

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URL: www.sailabs.org

TEST REPORT

ULR No. : TC118180000000075BF		Test Report No. : NWAM241123NA051	
Type of Sample : Water- Ground Water			
Customer Name	Thapar Institute of Engineering & Technology	Work Order No. & Date	Telephonic Order Dt.: 21/11/2023
Address	Bhadson Road Distt Patiala Punjab	Customer reference No. (If any)	NA
		Date of Sampling	24/11/2023
Sampling Protocol	IS 17614 (Part 1), EL-MSP-7.3	Date of Sample Receipt	24/11/2023
Sample Collection Mode	Sampling by laboratory	Period of Analysis	24/11/2023 To 30/11/2023
Testing Location	Permanent Facility	Date of Reporting	30/11/2023
Sampling Location	Borewell (Project Site)		
Sample Description	Clear, colourless liquid.		
Standard/Specification	NA		
Packing, Markings, Seal & Qty.	2 litre Plastic & 500ml Glass Bottle Marked H/24/04		

RESULTS

I. Chemical Testing

1. Water (Ground Water)

S.No.	Test Parameter	Unit	Result	Detection Limit	Test Method
1	Colour	CU	BDL	1	IS 3025 (Part 4) Cl 2.0
2	Odour	-	Agreeable	-	IS 3025 (Part 5)
3	pH @ 25 °C	-	7.20	0.5	IS 3025 (Part 11)
4	Taste	-	Agreeable	-	IS 3025 (Part 8)
5	Turbidity	NTU	BDL	0.1	IS 3025 (Part 10)
6	Chloride as Cl	mg/l	138	1	IS 3025 (Part 32)
7	Iron as Fe	mg/l	BDL	0.001	USEPA 3015A
8	Total Hardness as CaCO3	mg/l	264	1	IS 3025 (Part 21)

II. Biological Testing

2. Water (Ground Water)

S.No.	Test Parameter	Unit	Result	Detection Limit	Test Method
1	Total Coliform	Present or Absent/100 ml	Absent	-	IS 15185
2	E. coli	Present or Absent/100 ml	Absent	-	IS 15185

Ram Thakur
Authorized Signatory-Biological

Authorized Signatory-Chemical

ECO BHAWAN E-207, Industrial Area, Phase VIII-B (Sector-74), Mohali (Punjab) 160071

0172-4616225 9781303109 contact@ecoparyavaran.org | md@ecoparyavaran.org www.ecoparyavaran.org

ULR No. : TC118180000000758F	Test Report No. : NWAM241123NA051
Type of Sample : Water - Ground Water	

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

Lata Thakur
Authorized Signatory-Biological

Umesh Kumar
Authorized Signatory-Chemical

Eco Paryavaran Laboratories & Consultants Pvt. Ltd.
(Formerly known as Eco Laboratories & Consultants Pvt. Ltd.)

TEST REPORT

ULR No. :	TC1181800000000739F	Test Report No. :	N50M241123NA052
Type of Sample : Soil			
Customer Name	Thapar Institute of Engineering & Technology	Work Order No. & Date	Telephonic Order Dt.: 21/11/2023
Address	Bhadson Road Distt Patiala Punjab	Customer reference No. (If any)	NA
		Date of Sampling	24/11/2023
Sampling Protocol	USEPA/600/R-92/128, EL-MSP-7.3	Date of Sample Receipt	24/11/2023
Sample Collection Mode	Sampling by laboratory	Period of Analysis	24/11/2023 To 30/11/2023
Testing Location	Permanent Facility	Date of Reporting	30/11/2023
Sampling Location	Project Site (Near Car Parking Area)		
Sample Description	Brown coloured soil.		
Standard/Specification	Soil Manual- Dept. of Agriculture (GoI); 2011		
Packing, Markings, Seal & Qty.	10 Kg Poly Bag Marked H/24/03		

RESULTS

I. Chemical Testing

1. Pollution & Environment (Soil)

S.No.	Test Parameter	Unit	Result	Detection Limit	Test Method
1	Conductivity	mS/m	0.252	0.01	IS 14767
2	Organic Matter	%	1.13	0.1	IS 2720 (Part 22) Sec 1
3	pH	-	7.59	0.5	IS 2720 (Part 26) Cl 2
4	Texture	-	Sandy Loam	-	IS 2720 (Part 4) Cl 2.4
5	Moisture Content	%	7.8	-	IS 2720 (Part 2), Sec-1
6	Bulk Density	gm/cc	1.58	-	IS 2720 (Part 7)

Remarks : NA

OTHER INFORMATION

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Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

End of Report

Umesh Kumar
Authorized Signatory-Chemical

Sel-114-MI-A02-S

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TEST REPORT

ULR No. :	TC118180000000807F	Test Report No. :	N/M251123NA009
Type of Sample : Ambient Air		Date of Reporting :	30/11/2023
Customer	Thapar Institute of Engineering & Technology Bhadson Road Distt Patiala Punjab	Work Order No. & Date	Telephonic Order Dt.: 21/11/2023
		Customer reference No. (If any)	NA
Sampling Protocol	IS 5182, EL-MSP-7.3	Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	24/11/2023	Date of Receipt of Sample	25/11/2023
Sampling Location	Project Site (Near Hostel-J Block)	Period of Analysis	25/11/2023 To 30/11/2023
Standard/ Specification	National Ambient Air Quality: G.S.R. No.B-29016/20/19/PCI-L dated 18 Nov, 2009	Environmental Conditions	Clear sky
Testing Location	On Site & Permanent Facility		

RESULTS

I. Chemical Testing

1. Atmospheric Pollution (Ambient Air)

S.No.	Test Parameter	Unit	Result	Standard	Detection Limit	Test Method
1	Respirable Suspended Particulate Matter as PM10	µg/m3	126	100	5	IS 5182 (Part 23)
2	Particulate Matter as PM2.5	µg/m3	69	60	5	IS 5182 (Part 24)
3	Sulphur Dioxide as SO2	µg/m3	10	80	5	IS 5182 (Part 2)
4	Oxides of Nitrogen	µg/m3	25	80	7	IS 5182 (Part 6)
5	Ammonia as NH3	µg/m3	23	400	5	IS 5182 (Part 25)
6	Ozone as O3	µg/m3	20	180	5	IS 5182 (Part 9)
7	Carbon Monoxide as CO	µg/m3	0.62	4	0.1	IS 5182 (Part 10) NDIR method

Remarks : NA

OTHER INFORMATION

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Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

End of Report

Umesh Kumar
Authorized Signatory-Chemical

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TEST REPORT

TC-11010

ULR No. :	TC118180000000830F	**Test Report No. :**	NN0M251123NA010
Type of Sample :	Noise- Ambient Air		
Customer Name	Thapar Institute of Engineering & Technology	**Work Order No. & Date**	Telephonic Order Dt.: 21/11/2023
Address	Bhadson Road Distt Patiala Punjab	**Customer reference No. (If any)**	NA
		Date of Sampling	24/11/2023
Sampling Protocol	IS 9989, EL-MSP 7.3	**Date of Sample Receipt**	25/11/2023
Sample Collection Mode	Sampling by laboratory	**Period of Analysis**	25/11/2023 To 25/11/2023
Testing Location	On Site & Permanent Facility	**Date of Reporting**	30/11/2023
Sampling Location	Refer below^		
Standard/Specification	Noise- Ambient Air: EPA 1986 Schedule III		
Environment conditions	--		

RESULTS

I. Chemical Testing

1. Atmospheric Pollution (Ambient Noise Levels)

S.No.	Location ^	Units	Result (Day)	Detection Limit	Test Method
1	Project Site	dB(A)	52.2	30	EL/SOP/AN/01

Ambient Noise Quality Standards as per Noise Pollution (Regulation and Control) Rules, 2000

Area Code	Category of Area/Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence Zone	50	40

Day time shall mean from 6.00 a.m. to 10.00 p.m., Night time shall mean from10.00 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) Leq denotes the time weighted average of the level of sound in decibels on scale 'A' which is relatable to human hearing

Remarks : NA

OTHER INFORMATION

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Terms & Conditions : Please refer terms and conditions on backside of Test Report (Page-1)

End of Report

Umesh Kumar
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Thapar Technology Campus, Bhadson Road, Patiala-147 004 (India)

TEST REPORT

Sample ID	NN(D)/23-24/191	Date:	12.07.2023
Service No.	NN(D)/23-24/191 (01-04)	Customer's Ref.	Sample collected by Mr. Amit Kumar on dated 03.07.2023

Customer's name and address:

M/s Assistant Engineer, CMS
Thapar Institute of Engineering
and Technology, Patiala (Pb)
Kind Attn.: Mr. Arvind Gupta

Sample Description	Drinking Water
Condition of the sample received	O.K.
Customer's sample identification No. (if any)	01 – Tubewell No. 2 02 – Guest House 03 – Canteen 04 – Health Center Domestic water
Quantity/number of samples	2 Liter each / 4
Sampling Procedure (if any)/ Standard/Specification	IS:3025 (Part-I) 1987 , Reaffirmed 2003, SAI/SOP/03/47
Mode of Sampling/Environmental condition during transport	Grab Drawn/ Preserve in ice box
Test parameters	pH, Colour, TDS, Turbidity, Hardness, Alkalinity, Fe, Cl, F, Sulphate, Nitrate, Odour , Taste, Residual Free Chlorine
Method followed	As mentioned below
Deviations (if any)	--
Documents constituting this report (if any)	--

Date of Receipt of Job	Date of Completion of Job	Total Number of Pages
03.07.2023	07.07.2023	2

M. Agarwal
Technical Manager
(Authorized Signatory)

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Thapar Technology Campus, Bhadson Road, Patiala-147 004 (India)

Sample ID	NN(D)/23-24/191	Date:	12.07.2023
Service No.	NN(D)/23-24/191/(01-04)	Customer's Ref.	Sample collected by Mr. Amit Kumar on dated 03.07.2023
Customer's sample identification No. (if any)	01 – Tubewell No. 2 , 02 – Guest House , 03 – Canteen , 04 – Health Center Domestic water		

TEST RESULTS

S. No.	Parameters	Test Method	Unit	Results				Specification as per IS:10500, 2012	
				01	02	03	04	AL	PL
1	pH at 25°C	IS: 3025 (Part-2)-2022, 2nd rev. pH Meter	–	7.5	7.7	7.6	7.7	6.5-8.5	No relaxation
2	Colour	IS: 3025 (Part 4)-2021 2nd rev. Spectrophotometric Single Wavelength method	Pt.Co. Unit	0	0	0	0	5	15
3	Turbidity	IS: 3025 (Part-10) 1984, Reaffirmed 2017, Nephelometric	NTU	0.0	0.0	0.0	0.0	1	5
4	Total Hardness as $CaCO_3$	IS: 3025 (Part-21)-2009 Reaffirmed 2019 EDTA Method	mg/l	283	267	291	279	200	600
5	Total Alkalinity as $CaCO_3$	IS. 3025 (Part-23)-1986, 1st rev. Reaffirmed 2019, Titrimetric Method 1986	mg/l	464	460	469	469	200	600
6	Iron as Fe	IS:3025 (Part-53)-2003, Reaffirmed 2019 Atomic Absorption Method	mg/l	<0.20	<0.20	<0.20	<0.20	0.3	No relaxation
7	Chloride as Cl	IS: 3025 (Part 32)-1998, Reaffirmed 2019, Argentometric Method	mg/l	48	50	50	50	250	1000
8	Fluoride as F	IS:3025 (Part-60)-2008 Reaffirmed 2019 Electro Chemical Probe Method	mg/l	0.32	0.34	0.36	0.30	1.0	1.5
9	Total Dissolved Solid at 180°C	IS:3025 (Part-16)- 1984, Reaffirmed 2017, Gravimetric Method	mg/l	526	596	564	604	500	2000
10	Sulphate as SO_4 @600°C	IS:3025 (Part-24)- 1986, Reaffirmed 2019, Gravimetric Method	mg/l	13.2	21	20	20	200	400
11	Nitrate as NO_3	APHA 23rd Edn. 4500 NO3 B: 2017	mg/l	20.6	27.4	26.4	25.9	45	No relaxation
12	Odour	IS:3025 (Part-5)- 1983, Reaffirmed 2018	–	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
13	Taste	–	–	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
14	Residual Free Chlorine	APHA 23rd Edn. 4500 Cl B: 2017	mg/l	Nil	Nil	Nil	Nil	0.2	1

....End of the report....

M. Agarwal
Technical Manager
(Authorized Signatory)

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Thapar Technology Campus, Bhadson Road, Patiala-147 004 (India)

TEST REPORT

Sample ID	NN(D)/23-24/191	Date:	12.07.2023
Service No.	NN(D)/23-24/191 (01-04)	Customer's Ref.	Sample collected by Mr. Amit Kumar on dated 03.07.2023
Customer's name and address:			
M/s Assistant Engineer, CMS Thapar Institute of Engineering and Technology, Patiala (Pb) Kind Attn.: Mr. Arvind Gupta			
Sample Description		Drinking Water	
Condition of the sample received		O.K.	
Customer's sample identification No. (if any)		01 – Tubewell No. 2 02 – Guest House 03 – Canteen 04 – Health Center Domestic water	
Quantity/number of samples		2 Liter each / 4	
Sampling Procedure (if any)/ Standard/Specification		IS:3025 (Part-I) 1987 , Reaffirmed 2003, SAI/SOP/03/47	
Mode of Sampling/Environmental condition during transport		Grab Drawn/ Preserve in ice box	
Test parameters		Total Coliform , E. Coliform	
Method followed		As mentioned below	
Deviations (if any)		–	
Documents constituting this report (if any)		–	

Date of Receipt of Job	Date of Completion of Job	Total Number of Pages
03.07.2023	07.07.2023	1

TEST RESULTS

S. No.	Parameters	Test Method	Unit	Results				Specification as per IS:10500, 2012	
				01	02	03	04	AL	PL
1	Total Coliform	IS:1622-1981 Reaffirmed: 2019	MPN/100ml	<2	<2	<2	<2	Should not be detectable in any 100 ml sample	
2	E. Coliform	IS:1622-1981 Reaffirmed: 2019	E. Coli /100ml	Absent	Absent	Absent	Absent	Should not be detectable in any 100 ml sample	

....End of the report....

M. Agarwal
Technical Manager
(Authorized Signatory)

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Thapar Technology Campus, Bhadson Road, Patiala-147 004 (India)

TEST REPORT

Test Report No.:	SE/22-23/035	Date:	29.03.2023	Serial No.	210
Service No.	SE/22-23/035 (01-04)	Customer's Ref.	Sample collected by Mr. Amit Kumar on dtd. 26.03.2023		

Customer's name and address:

Assistant Engineer CMS
Thapar Institute of Engineering and Technology,
Patiala (Pb)
Kind Attn.: Mr. Anil Singla

Sample Description	Stack
Condition of the sample received	O.K.
Customer's sample identification No. (if any)	**01**- Thimble No. 176-Sub Station -6 (DG-4 750 KVA), **02**- Thimble No. 177- Sub Station - 6 (DG-2 750 KVA) **03**- Thimble No. 178-Sub Station - 6 (DG-3 380 KVA).. **04**- Thimble No 179 Sub Station –6 (DG-1 750 KVA)
Number of samples	Four
Sampling Procedure (if any)	IS:11255 (Part1):1985 Reaffirmed 2014, SAI/SOP/01/09 SAI/FM/SP-01
Test parameters	SPM, CO, NOx, SO_2,
Standard/Specification/Method followed	As Mentioned Below
Deviations (if any)	--
Documents constituting this report (if any)	Data Sheet

Date of Receipt of Job	Date of Completion of Job	Total Number of Pages
26.03.2023	29.03.2023	2

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit	Results			
				01	02	03	04
1	Particulate Matter	IS: 11255 (Part 1)-1985 Reaffirmed 2019, Gravimetric	g/kw-hr	0.094	0.091	0.102	0.096
2	Particulate Matter @12% CO2	IS: 11255 (Part 1)-1985 Reaffirmed May 2009 IS: 11255 (Part 3)-2008	mg/Nm^3	36.5	41.08	32.57	50.04
3	Carbon Monoxide as CO	Flue Gas Analyzer (KM9106) USEPA ALT004 Method 3A & 6C	mg/Nm^3	243	235	41.2	140
4	Nitrogen Dioxide as NOx	IS:5182 (Part-6), 1975, Reaff.2012	mg/Nm^3	180	201	345	149
5	Sulphur Dioxide as SO2	Flue Gas Analyzer (KM9106) USEPA ALT004 Method 3A & 6C	mg/Nm^3	14.8	0	4.45	7.85

M. Agarwal
Technical Manager
(Authorized Signatory)

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Thapar Technology Campus, Bhadson Road, Patiala-147 004 (India)

TEST REPORT

Test Report No.:	SE/22-23/035	Date	29.03.2023	Serial No.	210
Service No.	SE/22-23/035 (01-04)	Customer's Ref.	Sample collected by Mr. Amit Kumar on dtd. 26.03.2023		

Customer's name and address:

Assistant Engineer CMS
Thapar Institute of Engineering and Technology,
Patiala (Pb)
Kind Attn.: Mr. Anil Singla

Sample Description	Stack
Condition of the sample received	O.K.
Customer's sample identification No. (if any)	**01**- 176-Sub Station -6 (DG-4 750 KVA), **02**- 177- Sub Station - 6 (DG-2 750 KVA) **03**- 178-Sub Station - 6 (DG-3 380 KVA), **04**- 179 Sub Station –6 (DG-1 750 KVA)
Number of samples	Four
Sampling Procedure (if any)	IS:11255 (Part1),1985 Reaffirmed 2014, SAI/SOP/01/09 SAI/FM/SP-01
Test parameters	Noise Leq
Standard/Specification/Method followed	As Mentioned Below
Deviations (if any)	--
Documents constituting this report (if any)	Data Sheet

Date of Receipt of Job	Date of Completion of Job	Total Number of Pages
29.03.2023	29.03.2023	2

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit	Results			
				01	02	03	04
1	Noise Leq (Close Door)	Sound Meter	dB(A)	70.8	70.1	71.7	73.1
	Noise Leq (Open Door)			92.3	92.7	93.1	93.2

Note: Sampling was done at 50% load of DG Sets

.....End of the report...

M. Agarwal
Technical Manager
(Authorized Signatory)

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TEST REPORT

Test Report No.:	SE/22-23/036	Date:	29.03.2023	Serial No.	211
Service No.	SE/22-23/036 (01-02)	Customer's Ref	Sample collected by Mr. Amit Kumar on dtd. 26.03.2023		

Customer's name and address:

Assistant Engineer CMS
Thapar Institute of Engineering and Technology,
Patiala (Pb)
Kind Attn.: Mr. Anil Singla

Sample Description	Stack
Condition of the sample received	O.K.
Customer's sample identification No. (if any)	**01**- Thimble No. 180 Sub Station -6 (DG-1 750 KVA). **02**- Thimble No. 182- Sub Station-5 (DG-2 750 KVA)
Number of samples	Two
Sampling Procedure (if any)	IS:11255 (Part1).1985 Reaffirmed 2014, SAI/SOP/01/09 SAI/FM/SP-01
Test parameters	SPM, CO, NOx, SO_2
Standard/Specification/Method followed	As Mentioned Below
Deviations (if any)	--
Documents constituting this report (if any)	Data Sheet

Date of Receipt of Job	Date of Completion of Job	Total Number of Pages
26.03.2023	29.03.2023	2

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit	Results	
				01	02
1	Particulate Matter	IS: 11255 (Part 1)-1985 Reaffirmed May 2009 IS: 11255 (Part 3)-2008	g/kw-hr	0.061	0.102
2	Particulate Matter @12% CO2	IS: 11255 (Part 1)-1985 Reaffirmed May 2009 IS: 11255 (Part 3)-2008	mg/Nm^3	35.0	62.4
3	Carbon Monoxide as CO	Flue Gas Analyzer (KM9106) USEPA ALT004 Method 3A & 6C	mg/Nm^3	172	169
4	Nitrogen Dioxide as NOx	IS:5182 (Part-6). 1975. Reaff.2012	mg/Nm^3	168	181
5	Sulphur Dioxide as SO2	Flue Gas Analyzer (KM9106) USEPA ALT004 Method 3A & 6C	mg/Nm^3	0	0

M. Agarwal
Technical Manager
(Authorized Signatory)

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TEST REPORT

Test Report No.	SE/22-23/035	Date	29.03.2023	Serial No.	211
Service No.	SE/22-23/036 (01-02)	Customer's Ref.	Sample collected by Mr. Amit Kumar on dtd. 26.03.2023		

Customer's name and address:

Assistant Engineer CMS
Thapar Institute of Engineering and Technology,
Patiala (Pb)
Kind Attn.: Mr. Anil Singla

Sample Description	Stack
Condition of the sample received	O.K.
Customer's sample identification No. (if any)	**01**- Thimble No. 180-Sub Station -5 (DG-1 750 KVA), **02**- Thimble No. 182- Sub Station-5 (DG-2 750 KVA)
Number of samples	Two
Sampling Procedure (if any)	IS 11255 (Part1),1985 Reaffirmed 2014, SAI/SOP/01/09 SAI/FM/SP-01
Test parameters	Noise Leq
Standard/Specification/Method followed	As Mentioned Below
Deviations (if any)	--
Documents constituting this report (if any)	Data Sheet

Date of Receipt of Job	Date of Completion of Job	Total Number of Pages
26.03.2023	29.03.2023	2

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit	Results	
				01	02
1	Noise Leq (Close Door)	Sound Meter	dB(A)	72.9	70.3
	Noise Leq (Open Door)			92.6	92.1

Note: Sampling was done at 50% load of DG Sets

.....End of the report.....

M. Agarwal
Technical Manager
(Authorized Signatory)

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TEST REPORT

Test Report No :	SE/22-23/037	Date	29.03.2023	Serial No.	212
Service No.	SE/22-23/037 (01-04)	Customer's Ref.	Sample collected by Mr. Amit Kumar on dtd. 28.03.2023		

Customer's name and address:

Assistant Engineer CMS
Thapar Institute of Engineering and Technology,
Patiala (Pb)
Kind Attn.: Mr. Anil Singla

Sample Description	Stack
Condition of the sample received	O.K.
Customer's sample identification No. (if any)	01- Thimble No. 181-Sub Station -4 (DG 320 KVA), 02- Thimble No 183- Sub Station – 2 (DG-1 500 KVA) 03- Thimble No 184-Sub Station - 2 (DG 750 KVA), 04- Thimble No 185 -Sub Station –1 (DG 320 KVA)
Number of samples	Four
Sampling Procedure (if any)	IS:11255 (Part1),1985 Reaffirmed 2014. SAI/SOP/01/09 SAI/FM/SP-01
Test parameters	SPM, CO, NOx, SO_2,
Standard/Specification/Method followed	As Mentioned Below
Deviations (if any)	–
Documents constituting this report (if any)	Data Sheet

Date of Receipt of Job	Date of Completion of Job	Total Number of Pages
28.03.2023	29.03.2023	2

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit	Results			
				01	02	03	04
1	Particulate Matter	IS: 11255 (Part 1)-1985 Reaffirmed May 2009 IS: 11255 (Part 3)-2008	g/kw-hr	0.028	0.018	0.028	0.228
2	Particulate Matter @12% CO2	IS: 11255 (Part 1)-1985 Reaffirmed May 2009 IS: 11255 (Part 3)-2008	mg/Nm^3	30.5	34.5	40.0	29.5
3	Carbon Monoxide as CO	Flue Gas Analyzer (KM9106) USEPA ALT004 Method 3A & 6C	mg/Nm^3	66.4	95.4	63.33	419
4	Nitrogen Dioxide as NOx	IS:5182 (Part-6), 1975, Reaff.2012	mg/Nm^3	142	711	286	798
5	Sulphur Dioxide as SO2	Flue Gas Analyzer (KM9106) USEPA ALT004 Method 3A & 6C	mg/Nm^3	0.86	40	86.4	0

M. Agarwal
Technical Manager
(Authorized Signatory)

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TEST REPORT

Test Report No.:	SE/22-23/037	Date:	29.03.2023	Serial No.	212
Service No.	SE/22-23/037 (01-04)	Customer's Ref.	Sample collected by Mr. Amit Kumar on dtd. 28.03.2023		

Customer's name and address:

Assistant Engineer CMS
Thapar Institute of Engineering and Technology,
Patiala (Pb)
Kind Attn.: Mr. Anil Singla

Sample Description	Stack
Condition of the sample received	O.K.
Customer's sample identification No (if any)	01- Thimble No. 181-Sub Station -4 (DG 320 KVA), 02- Thimble No 183- Sub Station - 2 (DG-1 500 KVA) 03- Thimble No 184-Sub Station - 2 (DG 750 KVA), 04- Thimble No 185 -Sub Station –1 (DG 320 KVA)
Number of samples	Four
Sampling Procedure (if any)	IS:11255 (Part1),1985 Reaffirmed 2014, SAI/SOP/01/09 SAI/FM/SP-01
Test parameters	Noise Leq
Standard/Specification/Method followed	As Mentioned Below
Deviations (if any)	--
Documents constituting this report (if any)	Data Sheet

Date of Receipt of Job	Date of Completion of Job	Total Number of Pages
28.03.2023	29.03.2023	2

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit	Results			
				01	02	03	04
1	Noise Leq (Close Door)	Sound Meter	dB(A)	70.4	71.3	73.1	73.5
	Noise Leq (Open Door)			90.3	93.9	91.6	89.1

Note: Sampling was done at 50% load of DG Sets

.....End of the report.....

M. Agarwal
Technical Manager
(Authorized Signatory)

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TEST REPORT

Test Report No :	SE/22-23/038	Date:	29.03.2023	Serial No.	213
Service No.	SE/22-23/038 (01-02)	Customer's Ref.	Sample collected by Mr. Amit Kumar on dtd. 28.03.2023		

Customer's name and address:

Assistant Engineer CMS
Thapar Institute of Engineering and Technology,
Patiala (Pb)
Kind Attn.: Mr. Anil Singla

Sample Description	Stack
Condition of the sample received	O.K
Customer's sample identification No (if any)	**01**- Thimble No. 186-Sub Station -1 (DG Inside 400KVA), **02**- Thimble No. 187- Sub Station-1 (DG Outside 400KVA)
Number of samples	Two
Sampling Procedure (if any)	IS:11255 (Part1),1985 Reaffirmed 2014, SAI/SOP/01/09 SAI/FM/SP-01
Test parameters	SPM, CO, NOx, SO_2,
Standard/Specification/Method followed	As Mentioned Below
Deviations (if any)	–
Documents constituting this report (if any)	Data Sheet

Date of Receipt of Job	Date of Completion of Job	Total Number of Pages
28.03.2023	29.03.2023	2

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit	Results	
				01	02
1	Particulate Matter	IS: 11255 (Part 1)-1985 Reaffirmed May 2009 IS: 11255 (Part 3)-2008	g/kw-hr	0.022	0.011
2	Particulate Matter @12% CO2	IS: 11255 (Part 1)-1985 Reaffirmed May 2009 IS: 11255 (Part 3)-2008	mg/Nm^3	25.6	25.0
3	Carbon Monoxide as CO	Flue Gas Analyzer (KM9106) USEPA ALT004 Method 3A & 6C	mg/Nm^3	136	210
4	Nitrogen Dioxide as NOx	IS:5182 (Part-6), 1975, Reaff.2012	mg/Nm^3	751	718
5	Sulphur Dioxide as SO2	Flue Gas Analyzer (KM9106) USEPA ALT004 Method 3A & 6C	mg/Nm^3	0	0

M. Agarwal
Technical Manager
(Authorized Signatory)

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TEST REPORT

Test Report No.:	SE/22-23/038	Date:	29.03.2023	Serial No.
Service No.	SE/22-23/038 (01-02)	Customer's Ref.	Sample collected by Mr. Amit Kumar on dtd. 28.03.2023	

Customer's name and address:

Assistant Engineer CMS
Thapar Institute of Engineering and Technology,
Patiala (Pb)
Kind Attn.: Mr. Anil Singla

Sample Description	Stack
Condition of the sample received	O.K.
Customer's sample identification No. (if any)	**01**- Thimble No. 186-Sub Station -1 (DG Inside 400KVA), **02**- Thimble No. 187- Sub Station-1 (DG Outside 400KVA))
Number of samples	Two
Sampling Procedure (if any)	IS:11255 (Part1),1985 Reaffirmed 2014, SAI/SOP/01/09 SAI/FM/SP-01
Test parameters	Noise Leq
Standard/Specification/Method followed	As Mentioned Below
Deviations (if any)	–
Documents constituting this report (if any)	Data Sheet

Date of Receipt of Job	Date of Completion of Job	Total Number of Pages
28.03.2023	29.03.2023	2

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit	Results	
				01	**02**
1	Noise Leq (Close Door)	Sound Meter	dB(A)	72.8	72.5
	Noise Leq (Open Door)			93.8	93.3

Note: Sampling was done at 50% load of DG Sets

.....End of the report.....

M. Agarwal
Technical Manager
(Authorized Signatory)

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TEST REPORT

Test Report No.:	SE/22-23/039	Date:	29.03.2023	Serial No.	214
Service No.	SE/22-23/039 (01-03)	Customer's Ref.	Sample collected by Mr. Amit Kumar on dtd. 29.03.2023		

Customer's name and address:

Assistant Engineer CMS
Thapar Institute of Engineering and Technology,
Patiala (Pb)
Kind Attn.: Mr. Anil Singla

Sample Description	Stack
Condition of the sample received	O.K.
Customer's sample identification No. (if any)	01- Thimble No. 188-Sub Station -3 (DG 380 KVA), 02- Thimble No. 189- Sub Station - 2 (DG-2 500 KVA) 03- Thimble No. 190-Sub Station –R&D (DG 120 KVA)
Number of samples	Four
Sampling Procedure (if any)	IS:11255 (Part1),1985 Reaffirmed 2014, SAI/SOP/01/09 SAI/FM/SP-01
Test parameters	SPM, CO, NOx, SO_2
Standard/Specification/Method followed	As Mentioned Below
Deviations (if any)	--
Documents constituting this report (if any)	Data Sheet

Date of Receipt of Job	Date of Completion of Job	Total Number of Pages
29.03.2023	29.03.2023	2

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit	Results		
				01	02	03
1	Particulate Matter	IS: 11255 (Part 1)-1985 Reaffirmed May 2009 IS: 11255 (Part 3)-2008	g/kw-hr	0.013	0.017	0.120
2	Particulate Matter @12% CO2	IS: 11255 (Part 1)-1985 Reaffirmed May 2009 IS: 11255 (Part 3)-2008	mg/Nm^3	29.4	65.9	71.7
3	Carbon Monoxide as CO	Flue Gas Analyzer (KM9106) USEPA ALT004 Method 3A & 6C	mg/Nm^3	92.4	290	199
4	Nitrogen Dioxide as NOx	IS:5182 (Part-6), 1975, Reaff.2012	mg/Nm^3	452	92.7	183
5	Sulphur Dioxide as SO2	Flue Gas Analyzer (KM9106) USEPA ALT004 Method 3A & 6C	mg/Nm^3	0	13.1	14.7

M. Agarwal
Technical Manager
(Authorized Signatory)

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Sophisticated Analytical Instruments Laboratories Society

(Registered as Society with Registrar of Firms & Societies, Punjab, Chandigarh)

Thapar Technology Campus, Bhadson Road, Patiala-147 004 (India)

TEST REPORT

Test Report No. :	SE/22-23/039	Date:	29.03.2023	Serial No.	214
Service No.	SE/22-23/039 (01-03)	Customer's Ref.	Sample collected by Mr. Amit Kumar on dtd. 29.03.2023		

Customer's name and address:

Assistant Engineer CMS
Thapar Institute of Engineering and Technology,
Patiala (Pb)
Kind Attn.: Mr. Anil Singla

Sample Description	Stack
Condition of the sample received	O.K.
Customer's sample identification No. (if any)	01- Thimble No. 188-Sub Station -3 (DG 380 KVA), 02- Thimble No. 189- Sub Station - 2 (DG-2 500 KVA) 03- Thimble No. 190-Sub Station –R&D (DG 120 KVA)
Number of samples	Four
Sampling Procedure (if any)	IS:11255 (Part1).1985 Reaffirmed 2014, SAI/SOP/01/09 SAI/FM/SP-01
Test parameters	Noise Leq
Standard/Specification/Method followed	As Mentioned Below
Deviations (if any)	--
Documents constituting this report (if any)	Data Sheet

Date of Receipt of Job	Date of Completion of Job	Total Number of Pages
28.03.2023	29.03.2023	2

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit	Results		
				01	02	03
1	Noise Leq (Close Door)	Sound Meter	dB(A)	73.9	72.1	73.1
	Noise Leq (Open Door)			93.5	83.9	93.5

Note: Sampling was done at 50% load of DG Sets

.....End of the report.....

M. Agarwal
Technical Manager
(Authorized Signatory)

Note:
1. The results listed refer only to the tested samples and applicable parameters. Endorsement of products is neither inferred nor implied.
2. Samples will be destroyed after one month (except water, wastewater) from the date of issue of the test report unless otherwise specified.
3. This report is not to be reproduced wholly or in part and cannot be used as an evidence in the products is neither inferred nor implied court of law and should not be used in any advertising media without special permission in writing.
4. In case any reconfirmation of contents of the test report is required, please contact the authorized signatory of the test report within 15 days of the issue of test report.

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URL: www.sailabs.org

PUNJAB POLLUTION CONTROL BOARD

Zonal Office-1, Vatavaran Bhawan, Nabha Road, Patiala - 147001

Website:- www.ppcb.gov.in

Office Dispatch No :	**Registered/Speed Post**	**Date:**

Industry Registration ID:	*R14PTA803193*	**Application No :**	*21451700*

To,

Dr Gurbinder Singh
Thapar Institute Of Engineering & Technology Bhadson Road Patiala
Patiala,Punjab-147004

Subject: **Extension of 'Consent to Establish' (NOC) no. CTE/Exp/PTA/2022/17625240 dated 16/05/2022 granted under the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981**

1. Particulars of Consent to Establish (NOC) for Extension granted to the Industry

Certificate No.	*CTE/Ext/PTA/2023/21451700*
Date of issue :	*17/05/2023*
Date of expiry :	*31/03/2024*
Certificate Type :	*Extension*
Previous CTE/CTO No. & Validity :	*CTE/Exp/PTA/2022/17625240* *From:16/05/2022 To:31/03/2023*

2. Particulars of the Industry

Name & Designation of the Applicant	*Dr. Gurbinder Singh, (Registrar)*
Address of Industrial premises	*Thapar Institute Of Engineering & Technology, Bhadson Road, Patiala, Patiala,Patiala-147004*
Category of Industry	*Red*
Type of Industry	*1063-Building and construction projects more than 20,000 sq. m built up area and having waste water generation 100 KLD and above*
Scale of the Industry	*Large*
Office District	*Patiala*

This is with reference to the request made by the promoter company for extension of 'Consent to Establish' (NOC) granted by the Board under the Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981.

The validity of 'Consent to Establish' (NOC) granted to the promoter company vide no. CTE/Exp/PTA/2022/17625240 dated 16/05/2022, (Expiry on 31.03.2023), for educational Institute in an area of 249.13 acres and having total Built up area of 445678.09 sq.m., is hereby, further extended upto 31.03.2024 same conditions as mentioned therein and following additional conditions:

1. The institute shall comply with conditions imposed in the Environmental Clearance granted by MoEF&CC vide its letter no. F. No. IA3- 10/7/2021- IA.III dated 12/3/2021.

2.The institute shall comply with the provisions of MSW Rules, 2016.

3. The institute shall comply with the provisions of E-waste Management Rules, 2016.

4. The institute shall advised to obtain necessary clearance for abstraction of ground water from Punjab Water Regulation and Development Authority (PWRDA).

5. The institute shall utilize maximum quantity of treated wastewater for flushing purpose in the newly constructed buildings and report the compliance of the same to the Board.

6. The institute shall ensure that the plantation area should always be free from the wild growth and maintain the ridges & furrows of the plantation area in good condition at all the times, so as to utilize the treated wastewater in a scientific manner.

7. The institute shall provide permanent water sprinkler near the under-construction buildings for suppressing the dust.

8. The institute shall provide arrangements for controlling the fugitive emissions from its labs.

9. The institute shall provide solar power plant for its expansion project as per condition imposed in the environmental clearance.

10. The institute shall install in house mechanism for handling of municipal solid waste i.e. by installing composter/ composting pits etc.

11. The institute shall not emit black smoke from its stacks under any circumstances and will ensure that there is no odour in the surrounding area.

12. The institute shall not exceed the generation of effluent of after the completion of the ongoing construction as mentioned in the environmental clearance letter.

13. The institute shall obtain varied consent to operate of the Board as required under the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 after completion of the work of construction.

14. The institute shall obtain authorization as required under the Hazardous & other Waste (Management & Transboundary Movement) Rules, 2016 from the Board within one month.

15. The institute shall not throw burn or burry any solid wastes in open outside premises or in drain / water bodies.

16. The institute shall promote use of alternatives of single use plastics (SUP) and awareness to discourage use of plastic, through their Corporate Environment Responsibility (CER) activities. (See attached banner)

17. The institute shall ensure that there are no usages of single use plastic- thermocol disposable items such as water bottles / water pouches/water cups, plates, forks, spoons, straw etc. and single use decorating material made of plastic-thermocal or any other non-biodegradable material in the premises.

All other contents shall remain unchanged. This letter shall remain appended with the original 'Consent to Establish' (NOC) issued vide no. CTE/Exp/PTA/2022/17625240 dated 16/05/2022 issued to the institute under the Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981

17/05/2023

(Amit Kumar)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)

Endst. No.: **Dated:**

A copy of the above is forwarded to the following for information and necessary action please:

The Environmental Engineer, Regional Office, Punjab Pollution Control Board, Patiala

17/05/2023

(Amit Kumar)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)

PUNJAB POLLUTION CONTROL BOARD

Zonal Office-1, Vatavaran Bhawan, Nabha Road, Patiala - 147001

Website:- www.ppcb.gov.in

Office Dispatch No :	**Registered/Speed Post**	**Date:**
Industry Registration ID:	*R14PTA803193*	**Application No :** *21449118*

To,

Dr. Gurbinder Singh
Thapar Institute Of Engineering & Technology Bhadson Road Patiala
Patiala,Punjab-147004

Subject: Grant Varied 'Consent to Operate' u/s 21 of Air (Prevention & Control of Pollution) Act, 1981 for discharge of emissions arising out of premises.

With reference to your application for obtaining Varied 'Consent to Operate' u/s 21 of Air (Prevention & Control of Pollution) Act, 1981, you are hereby, authorized to operate an industrial unit for discharge of the emission(s) arising out of your premises subject to the Terms and Conditions as mentioned in this Certificate.

1. Particulars of Consent to Operate under Air Act, 1981 granted to the industry

Consent to Operate Certificate No.	*CTOA/Varied/PTA/2023/21449118*
Date of issue :	*17/05/2023*
Date of expiry :	*31/03/2024*
Certificate Type :	*Varied*
Previous CTO No. & Validity :	*CTOA/Varied/PTA/2022/19939633* *From:14/11/2022 To:31/03/2023*

2. Particulars of the Industry

Name & Designation of the Applicant	*Dr. Gurbinder Singh, (Registrar)*
Address of Industrial premises	*Thapar Institute Of Engineering & Technology, Bhadson Road, Patiala, Patiala,Patiala-147004*
Capital Investment of the Industry	*103682.0 lakhs*
Category of Industry	*Red*
Type of Industry	*1063-Building and construction projects more than 20,000 sq. m built up area and having waste water generation 100 KLD and above*
Scale of the Industry	*Large*
Office District	*Patiala*
Consent Fee Details	Rs. 720000/- vide UTR no. ICICR52023032200455352 dated 22.03.2023
Raw Materials (Name with Quantity per day)	*Educational institute and having total Built up area of 3,41,407.54 sqm (84.36 acre) out of total area of 1008194 sqm (249.13 acres)*

Products (Name with Quantity per day)	*Educational institute and having total Built up area of 3,41,407.54 sqm (84.36 acre) out of total area of 1008194 sqm (249.13 acres)*
By-products, if any, (Name with Quantity per day)	*Nil*
Details of the machinery and process	*As per application form no. 21449118*
Quantity of fuel required (in TPD) and capacity of boilers/ Furnace/Thermo heater etc.	*3 no. DG Sets of capacity 400 KVA each, 2 no. D.G. sets of capacity 380 KVA each, 2 no. D.G. sets of capacity 500 KVA each, 7 no. D.G. sets of capacity 750 KVA each, 2 no. D.G. sets of capacity 320 KVA each, 1 no. D.G. set of capacity 160 KVA : HSD as per requirement.*
Type of Air Pollution Control Devices to be installed	*3 no. DG Sets of capacity 400 KVA each, 2 no. D.G. sets of capacity 380 KVA each, 2 no. D.G. sets of capacity 500 KVA each, 7 no. D.G. sets of capacity 750 KVA each, 2 no. D.G. sets of capacity 320 KVA each, 1 no. D.G. set of capacity 160 KVA : Canopies.*
Stack height provided with each boiler/thermo heater/Furnace etc.	*Silent D.G. sets of capacity 3 no. DG Sets of capacity 400 KVA each, 2 no. D.G. sets of capacity 380 KVA each, 2 no. D.G. sets of capacity 500 KVA each, 7 no. D.G. sets of capacity 750 KVA each, 2 no. D.G. sets of capacity 320 KVA each, 1 no. D.G. set of capacity 160 KVA : Adequate stack of height with canopy and stack of adequate heights.*
Sources of emissions and type of pollutants	*3 no. DG Sets of capacity 400 KVA each, 2 no. D.G. sets of capacity 380 KVA each, 2 no. D.G. sets of capacity 500 KVA each, 7 no. D.G. sets of capacity 750 KVA each, 2 no. D.G. sets of capacity 320 KVA each, 1 no. D.G. set of capacity 160 KVA : SPM/SOx/NOx*
Standards to be acheived under Air(Prevention & Control of Pollution) Act, 1981	*As per emission standards prescribed by the Board/ MoEF&CC from time to time.*

17/05/2023

(Amit Kumar)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)

Endst. No.: **Dated:**

A copy of the above is forwarded to the following for information and necessary action please:

The Environmental Engineer, Regional Office, Punjab Pollution Control Board, Patiala

17/05/2023

(Amit Kumar)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)

TERMS AND CONDITIONS

A. GENERAL CONDITIONS

1. This consent is not valid for getting power load from the Punjab State Power Corporation Ltd. or for getting loan from the financial institutions.
2. The industry shall apply for renewal /extension of consent at least two months before expiry of the consent.
3. The industry shall not violate any of the norms prescribed under the Air (Prevention & Control of Pollution) Act, 1981, failing which, the consent shall be cancelled / revoked.
4. The achievement of adequacy and efficiency of the air pollution control devices installed shall be the entire responsibility of the industry
5. The authorized fuel being used shall not be changed without the prior written permission of the Board.
6. The industry shall not discharge any fugitive emissions. All gases shall be emitted through a stack of suitable height, as per the norms fixed by the Board from time to time.
7. The industry shall provide port-holes, platforms and/or other necessary facilities as may be required for collecting samples of emissions from any chimney, flue or duct or any other outlets.

   Specifications of the port-holes shall be as under:-

   i) The sampling ports shall be provided atleast 8 times chimney diameter downstream and 2 times upstream from the flow disturbance. For a rectangular cross section the equivalent diameter (De) shall be calculated from the following equation to determine upstream, downstream distance:-

   De = 2 LW / (L+W)

   Where L= length in mts. W= Width in mts.

   ii) The sampling port shall be 7 to 10 cm in diameter

8. The industry shall put display Board indicating environmental data in the prescribed format at the main entrance gate.
9. The industry shall discharge all gases through a stack of minimum height as specified in the following standards laid down by the Board.

   (i) Stack height for boiler plants

S.NO.	Boiler with Steam Generating Capacity	Stack heights
1.	*Less than 2 ton/hr.*	9 meters or 2.5 times the height of neighboring building which ever is more
2.	*More than 2 ton/hr. to 5 ton/hr.*	12 meters
3.	*More than 5 ton/hr. to 10 ton/hr*	15 meters
4.	*More than 10 ton/hr. to 15 ton/hr*	18 meters
5.	*More than 15 ton/hr. to 20 ton/hr*	21 meters
6.	*More than 20 ton/hr. to 25 ton/hr.*	24 meters
7.	*More than 25 ton/hr. to 30 ton/hr.*	27 meters
8.	*More than 30 ton/hr.*	30 meters or using the formula H = 14 Qg0.3or H = 74 (Qp)0.24 Where Qg = Quantity of SO2 in Kg/hr. Qp = Quantity of particulate matter in Ton/day.

Note : Minimum Stack height in all cases shall be 9.0 mtr. or as calculated from relevant formula whichever is more.

(ii) For industrial furnaces and kilns, the criteria for selection of stack height would be based on fuel used for the corresponding steam generation.

(iii) Stack height for diesel generating sets:

Capacity of diesel generating set	Height of the Stack	
0-50 KVA	Height of the building	+ 1.5 mt
50-100 KVA	-do-	+ 2.0 mt.
100-150 KVA	-do-	+ 2.5 mt.
150-200 KVA	-do-	+ 3.0 mt.
200-250 KVA	-do-	+ 3.5 mt.
250-300 KVA	-do-	+ 3.5 mt.

For higher KVA rating stack height H (in meter) shall be worked out according to the formula:

$$H = h+0.2 (KVA)0.5$$

where h = height of the building in meters where the generator set is installed.

10. The pollution control devices shall be interlocked with the manufacturing process of the industry to ensure its regular operation.

11. The existing pollution control equipment shall be altered or replaced in accordance with the directions of the Board, and no pollution control equipment or chimney shall be altered or as the case may be erected or re-erected except with the prior approval of the Board.

12. The industry will provide canopy and adequate stack with the D.G sets so as to comply with the provision of notification No GSR-371 E dated 17-5-2002(amended from time to time) issued by MOEF under Environment (Protection) Act, 1986.

13. The Govt. of Punjab, Department of Science, Technology & Environment vide its notification no.4/46/92-3ST/2839 dt. 29/12/1993 has put prohibition on the use of rice husk as fuel after 1.4.1995 except the following:-

ï¿½In the form of briquettes and use of rice husk in fluidized bed combustion.So the industry shall make the necessary arrangement to comply with the above notification.ï¿½

14. The industry shall submit balance sheet of every financial year to the concerned Regional Office by 30th June of every year

15. That the industry shall submit a yearly certificate to the effect that no addition / up-gradation/ modification/ modernization has been carried out during the previous year otherwise the industry shall apply for the varied consent.

16. a) The industry shall ensure that at any time the emission do not exceed the prescribed emissions standards laid down by the Board from time to time for such type of industry /emissions.

    b) The industry shall ensure that the emissions from each stack shall conform to the following emission standards laid down by the Board in respect of the Industrial Boilers.

Steam Generating capacity A.	*Required particulate matter B.*	
Area upto 5 Km from Other than the periphery of I and Class-II town	*Other than 'A' class*	
Less than 2 ton/hr.	800 mg/NM3	1200 mg/NM3
2 ton to 10 ton/hr.	500 mg/NM3	1000 mg/NM3
Above 10 ton to 15 ton/hr	350 mg/NM3	500 mg/NM3
Above 15 ton/hr	150 mg/NM3	150 mg/NM3

All emissions normalized to 12% carbon dioxide.

17. The industry shall ensure that the Hazardous Wastes generated from the premises are handled as per the provisions of theHazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, without any adverse effect on the environment, in any manner.

18. The air pollution control equipments shall be kept at all time in good running condition and;

(i) All failures of control equipments.

(ii) The emissions of any air pollutant into the atmosphere in excess of the standards lay down by the Board occurring or being apprehended to occur due to accident or other unforeseen act or event. 'Shall be intimated through fax to the concerned Regional Office as well as to the Director of Factories, Punjab, Chandigarh as required under rule 10 of the Punjab State Board for the Prevention and Control of Air Pollution Rules, 1983'.

19. The industry shall plant minimum of three suitable varieties of trees at the density of not less than 1000 trees per hectare all along the boundary of the industrial premises.

20. The industry shall submit a site emergency plan approved by the Chief Inspector of Factories, Punjab as applicable.

21. The industry shall comply with the conditions imposed by the SEIAA/MOEF in the Environmental Clearance granted to it as required under EIA notification dated 14/9/06, if applicable.

22. The industry shall make necessary arrangements for the monitoring of stack emissions and shall get its emissions analyzed from lab approved / authorized by the Board:-

(i) Once in Year for Small Scale Industries.

(ii) Twice/thrice/four time in a Year for Large/Medium Scale Industries.

23. The industry shall maintain the following record to the satisfaction of the Board :-

(i) Log books for running of air pollution control devices or pumps/motors used for it.

(ii) Register showing the result of various tests conducted by the industry for monitoring of stack emissions and ambient air.

(iii) Register showing the stock of absorbents and other chemicals to be used for scrubbers.

24. The industry will install the separate energy meter for running pollution control devices and shall maintain record with respect to operation of air pollution control device so as to the satisfy the Board regarding the regular operation of air pollution control device and monthly reading / record may be sent to the Board by the fifth of the following month.

25. The industry shall provide online monitoring system as applicable, for in stack emission and shall maintain the record of the same for inspection of the Board Officers.

26. The Board reserves the right to revoke the consent granted to the industry at any time, in case the industry is found violating the provisions of Air (Prevention & Control of Pollution) Act, 1981 as amended from time to time.

27. The industry shall comply with any other conditions laid down or directions issued in due course by the Board under the provisions of the Air (Prevention & Control of Pollution) Act, 1981.

28. Nothing in this consent shall be deemed to neither preclude the institution of any legal action nor relieve the applicant from any responsibilities, liabilities or penalties to which the applicant is or may be subjected to under this or any other Act.

29. Any amendments/revisions made by the Board/CPCB/MOEF in the emission/stack height standards shall be applicable to the industry from the date of such amendments/revisions.

30. The industry shall dispose off its solid waste generated by the burning of fuel in an Environmentally Sound Manner within the premises/outside as approved by the Board, to avoid public nuisance and air pollution problem in the area.

31. The industry shall ensure that no air pollution problem or public nuisance is created in the area due to the discharge of emissions from the industry.

32. The industry shall provide adequate arrangement for fighting the accidental leakage/discharge of any air pollutant/gas/ liquids from the vessels, mechanical equipment's etc, which are likely to cause environmental pollution.

33. The industry shall not change or alter the manufacturing process(es) and fuel so as to change the quality/quantity of emissions generated without the prior permission of the Board.

34. The industry shall earmark a land within their premises for disposal of boiler ash in an environmentally sound manner, and / or the industry shall make necessary arrangements for proper disposal of fuel ash in a scientific manner and shall maintain proper record for the same, if applicable.

35. The industry shall obtain and submit Insurance cover under the Public Liability Insurance Act, 1991.

36. The industry shall provide proper and adequate air pollution control arrangements for control emission from its fuel handling area, if applicable.

37. The industry shall comply with the code of practice as notified by the Government/Board for the type of industries where the siting guidelines / Code of Practice have been notified.

38. The industry shall not cause any nuisance/traffic hazard in vicinity of the area

39. The industry shall ensure that the noise & air emission from D.G. sets do not exceed the standards prescribed for D.G. sets by the Ministry of Environment & Forests, New Delhi.

40. The industry shall ensure that there will not be significant visible dust emissions beyond the property line

41. The industry shall provide adequate and appropriate air pollution control devices to contain emissions from handling, transportation and processing of raw material & product of the industry.

42. The Industry shall ensure that its production capacity does not exceed the capacity mentioned in the consent and shall not carry out any expansion without the prior permission / NOC of the Board.

B. SPECIAL CONDITIONS

1. The institute shall comply with conditions imposed in the Environmental Clearance granted by MoEF&CC vide its letter no. F. No. IA3- 10/7/2021- IA.III dated 12/3/2021.

2. The institute shall comply with the provisions of MSW Rules, 2016.

3. The institute shall comply with the provisions of E-waste Management Rules, 2016.

4. The institute shall advised to obtain necessary clearance for abstraction of ground water from Punjab Water Regulation and Development Authority (PWRDA).

5. The institute shall utilize maximum quantity of treated wastewater for flushing purpose in the newly constructed buildings and report the compliance of the same to the Board.

6. The institute shall ensure that the plantation area should always be free from the wild growth and maintain the ridges & furrows of the plantation area in good condition at all the times, so as to utilize the treated wastewater in a scientific manner.

7. The institute shall provide permanent water sprinkler near the under-construction buildings for suppressing the dust.

8. The institute shall provide arrangements for controlling the fugitive emissions from its labs.

9. The institute shall provide solar power plant for its expansion project as per condition imposed in the environmental clearance.

10. The institute shall install in house mechanism for handling of municipal solid waste i.e. by installing composter/ composting pits etc.

11. The institute shall not emit black smoke from its stacks under any circumstances and will ensure that there is no odour in the surrounding area.

12. The institute shall not exceed the generation of effluent of after the completion of the ongoing construction as mentioned in the environmental clearance letter.

13. The institute shall obtain varied consent to operate of the Board as required under the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 after completion of the work of construction.

14. The institute shall obtain authorization as required under the Hazardous & other Waste (Management & Transboundary Movement) Rules, 2016 from the Board within one month.

15. The project proponent shall not throw burn or burry any solid wastes in open outside premises or in drain / water bodies.

16. The project proponent shall promote use of alternatives of single use plastics (SUP) and awareness to discourage use of plastic, through their Corporate Environment Responsibility (CER) activities. (See attached banner)

17. The project proponent shall ensure that there are no usages of single use plastic- thermocol disposable items such as water bottles / water pouches/water cups, plates, forks, spoons, straw etc. and single use decorating material made of plastic-thermocal or any other non-biodegradable material in the premises.

17/05/2023

(Amit Kumar)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)

PUNJAB POLLUTION CONTROL BOARD

Zonal Office-1, Vatavaran Bhawan, Nabha Road, Patiala - 147001

Website:- www.ppcb.gov.in

Office Dispatch No : **Registered/Speed Post** **Date:**

Industry Registration ID: *R14PTA803193* **Application No :** *21795967*

To,

Dr Gurbinder Singh
Thapar Institute Of Engineering & Technology Bhadson Road Patiala
Patiala,Punjab-147004

Subject: **Grant Varied 'Consent to Operate'an outlet u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974 for discharge of effluent.**

With reference to your application for obtaining Varied 'Consent to Operate' an outlet for discharge of the effluent u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974, you are, hereby, authorized to operate an industrial unit fordischarge of the effluent(s) arising out of your premises subject to the Terms and Conditions as mentioned in this Certificate

1. Particulars of Consent to Operate under Water Act, 1974 granted to the industry

Consent to Operate Certificate No.	*CTOW/Varied/PTA/2023/21795967*
Date of issue :	*17/05/2023*
Date of expiry :	*31/03/2024*
Certificate Type :	*Varied*
Previous CTO No. & Validity :	*CTOW/Varied/PTA/2022/19940423 From:02/12/2022 To:31/03/2023*

2. Particulars of the Industry

Name & Designation of the Applicant	*Dr. Gurbinder Singh, (Registrar)*
Address of Industrial premises	*Thapar Institute Of Engineering & Technology, Bhadson Road, Patiala, Patiala,Patiala-147004*
Capital Investment of the Industry	*103682.0 lakhs*
Category of Industry	*Red*
Type of Industry	*1063-Building and construction projects more than 20,000 sq. m built up area and having waste water generation 100 KLD and above*
Scale of the Industry	*Large*
Office District	*Patiala*
Consent Fee Details	Rs. 720000/- vide UTR no. ICICR52023032200455605 dated 22.03.2023
Raw Materials(Name with quantity per day)	*Educational institute and having total Built up area of 3,41,407.54 sqm (84.36 acre) out of total area of 1008194 sqm (249.13 acres)*

Products (Name with quantity per day)	*Educational institute and having total Built up area of 3,41,407.54 sqm (84.36 acre) out of total area of 1008194 sqm (249.13 acres)*
By-Products, if any,(Name with quantity per day)	*Nil*
Details of the machinary and processes	*As per application form no. 21449118*
Details of the Effluent Treatment Plant	--
Mode of Disposal	*Domestic Effluent @ 850 KLD : Onto 196416.44 sq.m. green area and excess to 10 acres area under karnal technology*
Standards to be achieved under Water(Prevention & Control of Pollution) Act, 1974	*As per effluent standards prescribed by the Board/ MoEF&CC from time to time.*

17/05/2023

(Amit Kumar)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)

Endst. No.: **Dated:**

A copy of the above is forwarded to the following for information and necessary action please:

The Environmental Engineer, Regional Office, Punjab Pollution Control Board, Patiala

17/05/2023

(Amit Kumar)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)

TERMS AND CONDITIONS

A. GENERAL CONDITIONS

1. This consent is not valid for getting power load from the Punjab State Power Corporation Limited or for getting loan from the financial institutions.
2. The industry shall apply for renewal/further extension in validity of consent atleast two months before expiry of the consent.
3. The industry shall ensure that the effluent discharging through the authorized outlet shall confirm to the prescribed standards as applicable from time to time.
4. The industry shall plant minimum of three suitable varieties of trees at the density of not less than 1000 trees per hectare all along the boundary of the industrial premises.
5. The achievement of the adequacy and efficiency of the effluent treatment plant/pollution control devices/re-circulation system installed shall be the entire responsibility of the industry.
6. The industry shall ensure that the Hazardous Wastes generated from the premises are handled as per the provisions of the Hazardous Wastes(Management, Handling and Trans boundary Movement) Rules, 2008 as amended time to time , without any adverse effect on the environment, in any manner
7. The responsibility to monitor the effluent discharged from the authorized outlet and to maintain a record of the same rests with the industry. The Board shall only test check the accuracy of these reports for which the industry shall deposit the samples collection and testing fee with the Board as and when required.
8. The industry shall submit balance sheet of every financial year to the concerned Regional Office by 30th June of every year.
9. The industry shall submit a yearly certificate to the effect that no addition/up-gradation/ modification/ modernization has been carried out during the previous year otherwise the industry shall apply for the varied consent.
10. During the period beginning from the date of issuance and the date of expiration of this consent, the applicant shall not discharge floating solids or visible foam.
11. Any amendments/revisions made by the Board in the tolerance limits for discharges shall be applicable to the industry from the date of such amendments/revisions.
12. The industry shall not change or alter the manufacturing process(es) so as to change the quality and/or quantity of the effluents generated without the written permission of the Board.
13. Any upset conditions in the plant/plants of the factory, which is likely to result in increased effluent and/or result in violation of the standards lay down by the Board shall be reported to the Environmental Engineer, Punjab Pollution Control Board of concerned Regional Office immediately failing which any stoppage and upset conditions that come to the notice of the Board/its officers, will be deemed to be intentional violation of the conditions of consent.
14. The industry shall provide terminal manhole(s) at the end of each collection system and a manhole upstream of final outlet (s) out of the premises of the industry for measurement of flow and for taking samples.
15. The industry shall for the purpose of measuring and recording the quantity of water consumed and effluent discharged, affix meters of such standards and at such places as approved by the Environmental Engineer, Punjab Pollution Control Board of the concerned Regional Office.
16. The industry shall maintain record regarding the operation of effluent treatment plant i.e. record of quantity of chemicals and energy utilized for treatment and sludge generated from treatment so as to satisfy the Board regarding regular and proper operation of pollution control equipment.
17. The industry shall provide online monitoring equipmentï¿½s for the parameters as decided by concerned Regional Office with the effluent treatment plant/air pollution control devices installed, if applicable.
18. The pollution control devices shall be interlocked with the manufacturing process of the industry.
19. The authorized outlet and mode of disposal shall not be changed without the prior written permission of the Board.
20. The industry shall comply with the conditions imposed by the SEIAA / MOEF in the environmental clearance granted to it as required under EIA notification dated14/9/06, if applicable.
21. The industry shall obtain and submit Insurance cover as required under the Public Liability Insurance Act, 1991.
22. The industry shall not use any unauthorized out-let(s) for discharging effluents from its premises. All unauthorized outlets, if any, shall be connected to the authorized outlet within one month from the date of issue of this consent.

23. The industry shall make necessary arrangements for the monitoring of effluent being discharged by the industry and shall monitor its effluents:-

    (i) Once in Year for Small Scale Industries.

    (ii) Four in a Year for Large/Medium Scale Industries.

    (iii) The industry will submit monthly reading/ data of the separate energy meter installed for running of effluent treatment plant/re-circulation system to the concerned Regional Office of the Board by the 5th of the following month.

24. The industry shall provide electromagnetic flow meters at the source of water supply, at inlet/outlet of effluent treatment plant within one month and shall maintain the record of the daily reading and submit the same to the concerned Regional Office by the 5th of the following month.

25. The Board reserves the right to revoke this consent at any time in case the industry is found violating any of the conditions of this consent and/or the provisions of Water (Prevention & Control of Pollution) Act, 1974 as amended from time to time.

26. The issuance of this consent does not convey any property right in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or Local Laws or Regulations.

27. The consent does not authorize or approve the construction of any physical structures or facilities for undertaking of any work in any natural watercourse.

28. Nothing in this consent shall be deemed to neither preclude the institution of any legal action nor relieve the applicant from any responsibilities, liabilities or penalties to which the applicant is or may be subjected under this or any other Act.

29. The industry shall make necessary and adequate arrangements to hold back the effluent in case of failure of septic tank.

30. The diversion or bye pass of any discharge from facilities utilized by the applicant to maintain compliance with the terms and conditions of this consent is prohibited except.

    (i) Where unavoidable to prevent loss of life or some property damage or

    (ii) Where excessive storm drainage or run off would damage facilities necessary for compliance with terms and conditions of this consent. The applicant shall immediately notify the consent issuing authority in writing of each such diversion or bye-pass.

31. The industry shall ensure that no water pollution problem is created in the area due to discharge of effluents from its industrial premises.

32. The industry shall comply with the code of practice as notified by the Government/ Board for the type of industries where the siting guidelines/ code of practice have been notified.

33. Solids, sludge, filter backwash or other pollutant removed from or resulting from treatment or control of waste waters shall be disposed off in such a manner to prevent any pollutants from such materials from entering into natural water.

34. The industry shall re-circulate the entire cooling water and shall also re-circulate/reuse to the maximum extent the treated effluent in processes

35. The industry shall make necessary and adequate arrangements to hold back the effluent in case of failure of re-circulation system/ effluent treatment plant.

36. The industry shall make proper disposal of the effluent so as to ensure that no stagnation occurs inside and outside the industrial premises during rainy season and no demand period.

37. Where excessive storm water drainage or run off, would damage facilities necessary for compliance with terms and conditions of this consent, the applicant shall immediately notify the consent issuing authority in writing of each such diversion or bye-pass.

38. The industry shall submit a detailed plan showing therein the distribution system for conveying waste-water for application on land for irrigation along with the crop pattern for the year.

39. The industry shall ensure that the effluent discharged by it is toxicity free.

40. The industry shall not irrigate the vegetable crops with the treated effluents which are used/ consumed as raw.

41. Drains causing oil & grease contamination shall will be segregated. Oil & grease trap shall be provided to recover oil & grease from the effluent.

42. The industry shall establish sufficient number of piezometer wells in consultation with the concerned Regional Office, of the Board to monitor the impact on the Ground Water Quantity due to the industrial operations, and the monitoring shall be submitted to the Environmental Engineer of the concerned Regional Office by the 5th of every month.

43. The industry shall ensure that its production capacity & quantity of trade effluent do not exceed the quantity mentioned in the consent and shall not carry out any expansion without the prior permission/NOC of the Board.

B. SPECIAL CONDITIONS

1. The institute shall comply with conditions imposed in the Environmental Clearance granted by MoEF&CC vide its letter no. F. No. IA3- 10/7/2021- IA.III dated 12/3/2021.

2. The institute shall comply with the provisions of MSW Rules, 2016.

3. The institute shall comply with the provisions of E-waste Management Rules, 2016.

4. The institute shall advised to obtain necessary clearance for abstraction of ground water from Punjab Water Regulation and Development Authority (PWRDA).

5. The institute shall utilize maximum quantity of treated wastewater for flushing purpose in the newly constructed buildings and report the compliance of the same to the Board.

6. The institute shall ensure that the plantation area should always be free from the wild growth and maintain the ridges & furrows of the plantation area in good condition at all the times, so as to utilize the treated wastewater in a scientific manner.

7. The institute shall provide permanent water sprinkler near the under-construction buildings for suppressing the dust.

8. The institute shall provide arrangements for controlling the fugitive emissions from its labs.

9. The institute shall provide solar power plant for its expansion project as per condition imposed in the environmental clearance.

10. The institute shall install in house mechanism for handling of municipal solid waste i.e. by installing composter/ composting pits etc.

11. The institute shall not emit black smoke from its stacks under any circumstances and will ensure that there is no odour in the surrounding area.

12. The institute shall not exceed the generation of effluent of after the completion of the ongoing construction as mentioned in the environmental clearance letter.

13. The institute shall obtain varied consent to operate of the Board as required under the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 after completion of the work of construction.

14. The institute shall obtain authorization as required under the Hazardous & other Waste (Management & Transboundary Movement) Rules, 2016 from the Board within one month.

15. The project proponent shall not throw burn or burry any solid wastes in open outside premises or in drain / water bodies.

16. The project proponent shall promote use of alternatives of single use plastics (SUP) and awareness to discourage use of plastic, through their Corporate Environment Responsibility (CER) activities. (See attached banner)

17. The project proponent shall ensure that there are no usages of single use plastic- thermocol disposable items such as water bottles / water pouches/water cups, plates, forks, spoons, straw etc. and single use decorating material made of plastic-thermocal or any other non-biodegradable material in the premises.

17/05/2023

(Amit Kumar)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)

PUNJAB POLLUTION CONTROL BOARD

Zonal Office-I, Vatavaran Bhawan, Nabha Road, Patiala - 147001.

Website:- www.ppcb.gov.in

Office Dispatch No :	**Registered/Speed Post**	**Date:**

Industry Registration ID :	*R14PTA803193*	**Application No :**	*14845984*

To,

Prof Parkash Gopalan
Thapar Institute of Engineering & Technology Bhadson Road Patiala
Patiala,Punjab-147004

Subject: **Fresh Authorization for operating a facility for Collection, Generation, Storage, Disposal, of Hazardous Wastes as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 .**

Prof Parkash Gopalan of Thapar institute of engineering & technology is hereby granted an authorisation based on the enclosed signed inspection report for Collection, Generation, Storage, Disposal, on the premises situated at Bhadson road, patiala, Patiala, Patiala-147004

1. Particulars of Authorization granted to the Industry

Authorization No	*HWM/Fresh/PTA/2021/14845984*
Date of issue :	*30/03/2021*
Date of expiry :	*31/03/2025*
Authorization Type :	*Fresh*

2. Particulars of the Industry

Name & Designation of the Applicant	*Dr. Gurbinder Singh, (Registrar)*
Address of Industrial premises	*Thapar institute of engineering & technology, Bhadson road, patiala, Patiala,Patiala-147004*
Capital Investment of the Industry	*82610.0 lakhs*
Category of Industry	*Red*
Type of Industry	*Building, Const. projects, Township & Area development ..... covered under EIA notification dated 14/9/06*
Scale of the Industry	*Large*
Office District	*Patiala*

3. Particulars of Wastes

Category of Hazardous Waste as per the Schedules I,II and III of these rules	Authorised mode of disposal or recycling or utilisation or co-processing, etc	Quantity (ton/annum)
Schedule I 5.1-Used or spent oil	Generation , Collection , Storage , Disposal	1.5 KL/Annum

4. The authorisation is subject to the general and specific conditions as appended with the Authorization.

30/03/2021

(Gursharan Dass Garg)
Environmental Engineer
For & on behalf
of
(Punjab Pollution Control Board)

Endst. No.: **Dated:**

A copy of the above is forwarded to the following for information and necessary action please:
The Environmental Engineer, Punjab Pollution Control Board, Regional Office, Patiala. He is requested to ensure the compliance of the conditions of authorization granted under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

30/03/2021

(Gursharan Dass Garg)
Environmental Engineer
For & on behalf
of
(Punjab Pollution Control Board)

TERMS AND CONDITIONS

A. GENERAL CONDITIONS

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on ï¿½Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penaltyï¿½.
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
12. An application for the renewal of an authorisation shall be made as laid down under these Rules.
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

B. SPECIFIC CONDITIONS

1. The industry shall dispose off its Hazardous waste category no. 5.1 @ 1.5 KL/Annum to the authorized recycler / re-processor having valid Registration Certificate-cum-Pass Book from Punjab Pollution Control Board, valid authorization of the Board under the said Rules and 'consents to operate' under the Water Act, 1974 and Air Act, 1981.

2. The industry shall make an agreement with the authorized recycler for disposal of its hazardous waste i.e. waste oil and submit the copy of same to the Board, thereafter.

3. The industry shall handle the Hazardous Waste(s) strictly in accordance with the provisions of the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016 and guidelines issued by Central Pollution Control Board / Ministry of Environment & Forests and Climate Change, New Delhi.

4. The occupier generating hazardous waste/operator of a facility for collection and storage of hazardous waste shall maintain records of such operations in Form-3.

5. The occupier/operator of a facility shall send annual returns to the Board in form-4 on or before 30th day of the June following to the financial year to which that return relates.

6. The Authorized person shall report, about the accident, which occurs at the hazardous waste storage/treatment site immediately to the Board.

7. An occupier who is generating hazardous waste shall store his waste category wise on site in environmentally sound manner till its treatment.

8. An occupier /generator shall not store hazardous wastes in open ground. It must be stored in an isolated site away from plant operational area.

9. The storage tank/container of the hazardous wastes should be in good condition and made of (or lined with) an appropriate material which does not react with the waste contained in it and can withstand the physical and environment conditions during storage and handling.

10. The occupier generating hazardous waste shall mark each container holding hazardous waste with the marking "HAZARDOUS WASTE" both in English and Punjabi.

11. The storage area should be fenced properly and a sign Board indicating "DANGER" and 'HAZARDOUS WASTE' sign & nature of the waste shall be placed at storage site.

12. The occupier generating hazardous waste shall provide the required safety devices like safety mask, goggles, hand-gloves, gum boots etc to the workers for handling the hazardous waste. The occupier shall impart training to the personnel/workers for handling and storage of hazardous wastes.

13. There should be sufficient & efficient provisions to avoid under ground water contamination from waste storage of hazardous wastes.

14. The occupier shall be responsible for any damage of life/or property during storage of his waste and will obtain Public Liability Insurance, wherever applicable.

15. The occupier and operator of a facility also be liable to reinstate or restore damaged or destroyed elements of the environment at his cost, failing which the occupier or the operator of a facility, as the case may be, shall be liable to pay the entire cost of remediation or restoration and pay in advance an amount equal to the cost estimated by the State Pollution Control Board.

16. The industry shall take steps wherever feasible, for reduction in hazardous waste generated or recycled or reused.

17. The industry shall display on line data outside the main factory gate on display Board of size (6ft. 4ft.) on quantity and nature of hazardous chemicals being used in the plant, water & Air emissions and hazardous waste generated within factory premises.*

18. Non compatible hazardous waste and material shall not be mixed in the same storage container.

19. The occupier of the transport facility shall ensure that the hazardous waste are shifted in the container in a manner suitable for handling storage and transport and the labelling and packaging shall be easily visible and able to withstand physical condition and climatic factors.

20. Packaging, Labelling of Used/Waste oil shall be in accordance with the provisions of the rules made by the Central Government under the Motor Vehicles Act, 1988 and other guidelines issued from time to time.

21. All hazardous waste chamber shall be provided with a general label as given in Form-8.

22. No transporter shall accept hazardous waste from any occupier for disposal unless. It is accompanied by five copies of the manifest (form-9) as per the colour codes. The transporter shall give a copy of the manifest signed the dated in the occupier and retain the remaining four copies to be sued as prescribed in sub-rule (5).

23. The occupier shall provide the transporter of seven copies of the manifest as per the colour code indicated below and all the copies shall be signed by the occupier :

Copy 1(White). Forwarded to the Punjab Pollution Control Board by the Occupier
Copy 2(Light Yellow) Signed by the Transporter and retained by the Occupier
Copy 3(Pink). Retained by the Operator of facility
Copy 4(Orange). Returned to the Transporter by the operator of facility after accepting waste.
Copy 5(Green). Forward to Punjab Pollution control Board by the operator of facility after disposal.
Copy 6(Blue). returned to the occupier by the operator of facility after disposal.
Copy 7(Grey). To be sent by the operator of the facility to the Punjab Pollution Control Board of the occupier in case the occupier is in another state.

24. The occupier shall provide the transporter with relevant information in form to regarding the hazardous nature of the wastes and measures to be taken in case of an emergency.

25. The transporter shall transport the hazardous waste only in authorized for transportation of hazardous waste.

26. The person authorized for transportation of hazardous waste shall prior permission of the Board to close down the transportation facility.

27. The authorization is subject to the conditions mentioned above and also to such conditions as specified in the Hazardous waste (Management & Handling) Rules as amended from time to time framed under the Environment (Protection) Act 1986.

28. In case the industry fails to comply with the above conditions of authorization as well as provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and/ or any other environmental law applicable to the industry and Rules, Circulars & Directions issued by the Board from time to time, the Board shall constrained to take action against the industry under the provisions of the Pollution Control Laws.

30/03/2021

(Gursharan Dass Garg)
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)

PERCEPTIVE IDEAS
CONSULTING ENGINEERS

STRUCTURAL STABILITY CERTIFICATE

Certified that, undersigned shall analyse and design the **Complete Structure** of **New Boys Hostel – 928 Pax** being constructed at **Thapper University Patiala, Punjab**.

It is further certified that the structural design has been done in accordance with the provisions of relevant **I.S. Codes including IS: 456, IS:1786, IS:875 and IS:1893, IS:4326 for schematic zone III.**

Hence structure is Safe and Stable under the designed loads and natural hazards including earth-quake.

Thanking you,

Yours faithfully,
For, M/s. Perceptive Ideas Consulting Engineer Private Limited

Mr. Ajay Gupta
Registration No. M -1474744 ;
CHARTERED ENGINEER (CIVIL DIVISION)
Institution of Engineers (India)

Date : 15/11/2019

Annexure 7

ਦਫਤਰ ਨਗਰ ਨਿਗਮ ਪਟਿਆਲਾ

ਨੰਬਰ [illegible] ਮਿਤੀ 5-2-19

ਸੇਵਾ ਵਿਖੇ

ਰਜਿਸਟਰਾਰ
ਥਾਪਰ ਯੂਨੀਵਰਸਿਟੀ
ਪਟਿਆਲਾ।

ਵਿਸ਼ਾ: ਕੈਂਪਸ ਤੋਂ ਕੂੜਾ ਚੁੱਕਣ ਸਬੰਧੀ।

ਮਾਨਯੋਗ ਕਮਿਸ਼ਨਰ ਨਗਰ ਨਿਗਮ ਪਟਿਆਲਾ ਜੀ ਦੇ ਹੁਕਮ ਮਿਤੀ 5/2/19 ਅਨੁਸਾਰ ਹੇਠ ਲਿਖੀਆਂ ਸ਼ਰਤਾਂ ਤੇ ਪ੍ਰਤੀ ਮਹੀਨੇ 3000/-ਰੁਪਏ ਨਗਰ ਨਿਗਮ ਪਟਿਆਲਾ ਦੇ ਖਾਤੇ ਵਿੱਚ ਜਮਾਂ ਕਰਵਾਉਣ ਤੇ ਕੂੜਾ ਚੁੱਕਣ ਦੀ ਮੰਨਜੂਰੀ ਦਿੱਤੀ ਜਾਂਦੀ ਹੈ।

1. ਇਹ ਕਿ ਕੂੜਾ ਚੁੱਕਣ ਦੇ ਬਦਲੇ ਹਰ ਮਹੀਨੇ ਐਡਵਾਂਸ ਜਮਾਂ ਕਰਵਾਏ ਜਾਣ।
2. ਕੂੜਾ ਚੁੱਕਣ ਲਈ ਟਰੈਕਟਰ ਟਰਾਲੀਆਂ ਢੱਕਵੇਂ ਰੂਪ ਤੇ ਲਿਆਂਦੀ ਜਾਵੇ।
3. ਕੂੜਾ ਕਰਕਟ ਸੰਸਥਾ ਵੱਲੋਂ ਆਪਣੀ ਟਰੈਕਟਰ ਟਰਾਲੀ ਰਾਹੀਂ ਡੰਪ ਤੇ ਸੁੱਟਿਆ ਜਾਵੇਗਾ।
4. ਕੂੜਾ ਕਰਕਟ ਵਿੱਚ ਕਿਸੇ ਵੀ ਤਰ੍ਹਾਂ ਬਾਇਓ ਮੈਡੀਕਲ ਵੇਸਟ ਨਹੀਂ ਹੋਣਾ ਚਾਹੀਦਾ।

ਹੈਲਥ ਅਫਸਰ
ਨਗਰ ਨਿਗਮ ਪਟਿਆਲਾ
[illegible] ਨਗਰ ਨਿਗਮ, ਪਟਿਆਲਾ

Registrar
Thapar Institute of Engineering & Tech.
PATIALA-147 004 (Punjab)

Registrar
Thapar University
PATIALA

THAPAR INSTITUTE
OF ENGINEERING & TECHNOLOGY
Deemed to be University
Thapar Technology Campus, Bhadson Road
Patiala 147 004 Punjab India
Phone : 191-175-2393917 (O), 2393026
Email :upsingh@thapar.edu, pushap.raj@thapar.edu
URL : www.thapar.edu

Regd. Post

TIET/CS/ Haz. Waste / 2022-23/ 185
November 30, 2022

The Environmental Engineer (HQ-I)
Punjab Pollution Control Board
Regional Office, Vatavaran Bhawan
Nabha Road
PATIALA

Subject: Disposal of Hazardous Waste (Used Oil Cat 5.1) – Thapar Institute of Engg. & Technology Patiala

Sir,

Attached herewith the details of Waste Oil Disposal under category of Hazardous Waste (Cat. 5.1) from Thapar Institute of Engg. & Technology Patiala as disposed on 11-11-2022:

S. No.	Description	Details
1	**Disposed Quantity of Haz. Waste (Used Oil Cat 5.1) (WASTE OIL) – Transformer Oil**	1,312 Ltrs
2	Manifest Details of M/s. Satkar Oil Company:	282/22-23 dt. 11-11-2022
3	Authorised Refiner / Recycler:	**M/s SATKAR OIL Company Ludhiana**
4	Registration Authorised Refiner / Recycler:	PPCB/20-II/2021-22/F-2
5	Date of Issue of Registration :	09.04.2021
6	Validity of Registration:	08.04.2026

Submitted herewith the details of disposal of above Waste Oil (Used Oil Cat. 5.1) – copy of manifest and passbook entry.

Submitted for your kind records, please

Thanking You

Yours Truly
For Thapar Institute of Engg. & Technology Patiala

5/12/2022

Authorised Signatory

5/12/22

Attached:
1. Manifest Copy (No. 282/22-23 dt. 11-11-2022) of M/s. Satkar Oil Co. Ludhiana
2. Passbook Entry Page & Registration Certificate cum Passbook M/s. Satkar Oil Ludhiana

FORM 10

[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail) :	Deputy Registrar (Central Stores) Thapar Institute of Engg. & Technology (Deemed to be University) PATIALA-147 004 (India)
2.	Sender's authorisation No. :	
3.	Manifest Document No. :	262 / 22-23
4.	Transporter's name and address: (Including Phone No. and e-mail)	SATKAR OIL COMPANY, D-177, Phase-VI, Focal Point, Ludhiana. Ph. : 5053100
5.	Type of vehicle :	(Truck/Tanker/Special Vehicle)
6.	Transporter's registration No. :	HWM/RENEW/LDH4/2021/15792504
7.	Vehicle registration No. :	PB 07 AL 4906
8.	Receiver's name and mailing address (Including Phone No. and e-mail) :	SATKAR OIL COMPANY, D-177, Phase-VI, Focal Point, Ludhiana. Ph. : 5053100
9.	Receiver's authorisation No. :	HWM/RENEW/LDH4/2021/15792504
10.	Waste description :	USED OIL CAT 5.1
11.	Total quantity :	1212.12 m^3 or MT
	No. of Containers :	✓ Nos.
12.	Physical form :	(Solid/Semi-Solid/Sludge/Oily/Tarry/Slurry/Liquid)
13.	Special handling instructions and additional information :	
14.	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp: SATKAR OIL COMPANY D-177, Phase-VI, Focal Point LUDHIANA-141010 Signature:	Month Day Year 11 11 2022
15.	Transporter acknowledgement of receipt of Wastes	
	Name and stamp: SATKAR OIL COMPANY D-177, Phase-VI, Focal Point LUDHIANA-141010 Signature:	Month Day Year 11 11 2022
16.	Receiver's certification for receipt of hazardous and other waste	
	Name and stamp: Signature:	Month Day Year 11 11 2022

Passbook for Re-refining/Recycling of Hazardous Wastes

(Waste/Used Oil (Cat: 5.1))

Name and Address of the Industry : M/s Satnam Oil Co., D-133, Phase-6, Focal Point, Ludhiana

Telephone/Fax No. : 98152-27100

E-mail Address : [illegible]@satnamoil.com

Registration No. : PPCB/RE-TL/2021-25182

Date of Issue : 9-4-21

Validity Period : 9-4-2021 To 8-4-2026

Type & quantity of the Hazardous Waste(s) permitted for procurement and recycling:

S. No.	Hazardous Wastes Type	Quantity (Tons Per Annum)
	Waste/Used Oil [Category 5.1]	2100 Kl/annum

Authorised Signatory & Senior Environmental Engg. Punjab Pollution Control Board Zonal Office-II, Ludhiana

Endorsement by the Auctioneer/Seller (except column No. 6 & 7 [Condition No. 5 of the Registration]

Registration No. : ..... Date : .....

Waste(s) Type : ..... Permitted Quantity : .....

S. No.	Date	Address of the Auctioneer / Seller	Type & Quantity of HW sold/ Auctioned	Signature & Seal of the Auctioneer/ Seller with date	Date of arrival in the Recyclers premises & Challan No.	Balance Quantity (Registered-Procured till date)
(1)	(2)	(3)	(4)	(5)	(6)*	(7)*

*To be filled by the Recycler

Endorsement by the Auctioneer/Seller (except column No. 6 & 7 [Condition No. 5 of the Registration]

Registration No. : ..... Date : .....

Waste(s) Type : ..... Permitted Quantity : .....

S. No.	Date	Address of the Auctioneer / Seller	Type & Quantity of HW sold/ Auctioned	Signature & Seal of the Auctioneer/ Seller with date	Date of arrival in the Recyclers premises & Challan No.	Balance Quantity (Registered-Procured till date)
(1)	(2)	(3)	(4)	(5)	(6)*	(7)*

THAPAR INSTITUTE
(Deemed to be University)
Thapar Technology Campus, Bhadson Road
Patiala 147 004 Punjab India
Phone : +91-175-2393917 (O), 2393026
Email : upsingh@thapar.edu, pushap.raj@thapar.edu
URL : www.thapar.edu

REGD Post

TIET/CS/ E Waste / Form -3/ 2022-23/13
April 03, 2023

The Environmental Engineer
Punjab Pollution Control Board
Regional Office, Vatavaran Bhawan
Nabha Road
PATIALA

Subject: **Annual Return Filing (E Waste) Form-3 for 2022-23 (Thapar Institute of Engg. & Technology Patiala)**

Sir,

Attached herewith please find the Annual Return (E Waste) filed for period 1.4.2022 to 31.3.2023 of Thapar Institute of Engg. & Technology Patiala duly in the Form -3 under Rule 9(4) of E Waste (Management) Rules 2016.

S. No.	Description		Details
1.	The Size of E Waste Store **Thapar Institute of Engg. & Technology Patiala**		**Size : 20ft x 10ft.**
2.	**OB**	as on **01.4.2022**	**NIL**
3.	**Collection**	Collection during **2022-23**	**4.831 MT**
4.	**Disposal**	Disposal during **2022-23**	**4.831 MT**
5.	**CB**	as on **31.03.2023**	**NIL**

Submitted for your kind records.

Thanking You

Yours Truly
For Thapar Institute of Engg. & Technology Patiala

3/4/2023

Authorised Signatory

Attached: Form -3 (TIET Patiala) of E Waste (Management) Rules 2016 for 2022-23
Annexure to Form -3 (Details of Disposal Records)

E Waste (Management) Rules 2016

FORM - 3

(See rules 4(5), 5(5), 8(6), 9(4), 10(8), 11(9), 13(1) (xi), 13(2) (v), 13(3) (vii) and 13(4)(v))

FORM FOR FILING ANNUAL RETURNS

(To be submitted by producer or manufacturer or refurbisher or dismantler or recycler by 30th day of June following the financial year which that return related)

Quantity in Metric Ton (MT) and Numbers

1.	Name of the Bulk Consumer	THAPAR INSTITUTE OF ENGG. & TECHNOLOGY PATIALA
2.	Name of the authorized person and complete address with telephone and fax numbers and e-mail address	Mr. N P Singh. Head Commercial Thapar Institute of Engg. & Technology, Bhadson Road. Patiala 147004 Phone – 0175-2393917 E-mail Id: npsingh@thapar.edu
3.	Total quantity of E Waste collected or channelized to recyclers or dismantlers for processing during the year for each category of electrical and electronic equipment listed in the Schedule I (Attach list) by PRODUCERS	Not Applicable
	Details of the above:	
3A	**BULK CONSUMERS:** **Quantity of E Waste**	**As attached at Annexure Enclosed .(stock as on 31.3.2023)**
4	Name and Full address of the destination w.r.t. 3(A)-3(D)	**NA**
5	Type and quantity of material segregated or recovered from E-waste of different codes as applicable to 3(A)-3(D)	**NA**

Received 3/4/2023

Signature of the authorized Person

Place : Thapar Institute of Engg. & Technology Patiala

Date:

03-04-23

E Waste (Management) Rules 2016
FORM - 3
(See rules 4(5), 5(5), 8(6), 9(4), 10(8), 11(9), 13(1)(xi), 13(2)(v), 13(3)(vii) and 13(4)(v))

THAPAR INSTITUTE

ANNEXURE TO FORM-3 FOR FILING ANNUAL RETURNS

E Waste ANNUAL RETURN REGISTER 2022-23

THAPAR INSTITUTE OF ENGG. & TECHNOLOGY PATIALA

S.No. (Item)	S.No. (Register)	Date of Receiving	Deptt.	E-Waste Item	Qty (Nos.)	Wt. (Kg)	Schedule	Category	Electrical & Electronic Equipment Code	Remarks
22001		01.04.2022		E Waste Stock Openings Balance (O.B.)	NIL	NIL		-		
22002	1	19-Apr-22	Registrar	Recd 1 No. toner against bill no. 1358 dt 13.4.22 for Rs. 4600/-	1		I(i)	E Waste of Copying Equipment	ITEW07	
22003	2	19-Apr-22	CITM	Recd 1 No. HDD against bill No. 1275 dt 19.4.22 for Rs. 4550/-	1		I(i)	E Waste of Copying Equipment	ITEW07	TIET NRGP 107 dt.01.07.2[illegible] Manifest SR/2019/M-608 Disposed to M/s Spreco Recy. Regd. With PPCB vide PPCB/S[illegible] 2/LDH/2019/ 2009 dt. 17.05.[illegible] valid upto 30.06.2023
22004	3	19-Apr-22	SSA	E-Waste of electrical Old fitting & Electrical lights fused	as per list	250 Kg	I(i)	E Waste of Mercury Lamps	CEEW5	
22005		19-Apr-22		DISPOSAL OF E WASTE		250 Kg	I(i)	E Waste of Mercury Lamps	CEEW5	TIET NRGP 101 dt. 19.4.2022 Manifest SR/2019/M 580 to Disposed to M/s Spreco Recy. Regd. With PPCB vide PPCB/ SEE/Zo-2/LDH/2019/ 2009 dt. 17.05.2019 valid upto 30.06.2[illegible]
22006	4	06-May-22	[illegible]	Recd 1 No. Toner against bill no. 1402 dt 27.4.22	1		I(i)	E Waste of Copying Equipment	ITEW07	TIET NRGP 107 dt.01.07.2[illegible] Manifest SR/2019/M-608 Disposed to M/s Spreco Recy. Regd. With PPCB vide PPCB/S[illegible] 2/LDH/2019/ 2009 dt. 17.05.[illegible] valid upto 30.06.2023
22007	5	09-May-22	CILP	Recd 1 No. Toner cartridge against bill No. 342 dated 5.5.22 for Rs. 7,270/-	1		I(i)	E Waste of Copying Equipment	ITEW07	
22008	6	09-May-22	CILP	Recd 2 No. toner Cartridge against bill No. 340 dated 4.5.22 for Rs. 13,380/-	2		I(i)	E Waste of Copying Equipment	ITEW07	
22009	7	23-May-22	LCC	Recd 1 No. Toner against bill NO. 1397 dated 26.4.22 for Rs. 4600/-	1		I(i)	E Waste of Copying Equipment	ITEW07	
22010	8	25-May-22	[illegible]	Recd 1 No. Toner cartridge against bill No. 1941 dated 23.5.22 for Rs. 700/-	1		I(i)	E Waste of Copying Equipment	ITEW07	
22011	9	27-May-22	CMS	Recd 2 No. Toner Cartridge against bill No. 67 dated 18.5.22	2		I(i)	E Waste of Copying Equipment	ITEW07	
22012	10	01-Jun-22	Library	Recd 1 No. Toner cartridge Kyocera against bill No. 31 dated 26.5.22	1		I(i)	E Waste of Copying Equipment	ITEW07	
22013	11	01-Jun-22	CMS	Recd 2 No Inverter compressor against bill NO. 10 dated 2.5.22 for Rs. 1,67,463/-	2	71 kg	I(i)	Spare Parts of AC	CEEW4	
22014	12	07-Jun-22	Director	Recd 1 No. Apple magic Mouse against bill No 22230L437 dt 4.6.22 for rs. 7500/-	1		I(i)	Laptop component	ITEW3	
22015	13	14-Jun-22	DO	Recd 1 No. Toner cartridge against bill No. 1892 dt 12.4.22 for Rs. 500/-	1		I(i)	E Waste of Copying Equipment	ITEW07	
22016	14	14-Jun-22	DO	Recd 1 No. Toner against bill No. 1895 dt 15.4.22 for rs. 500/-	1		I(i)	E Waste of Copying Equipment	ITEW07	
22017	15	15-Jun-22	CL	Recd 1 No. Toner Kyocera against bill No. 58 dt 1.6.22 for Rs. 8,090/-	1		I(i)	E Waste of Copying Equipment	ITEW07	
22018	16	22-Jun-22	CMS	Sr. No.1 to 21 items sub station 6 as per list attached	21	33Kg	I(i)	E Waste of Mercury Lamps	CEEW5	
22019		29-Jun-22	DISPOSAL	DISPOSAL OF E WASTE		105 Kg				
22020	17	01-Jul-22	CMS	Recd 2 No. cartridge CF-400A CF-402A against bill No. 3034 dt 14.6.22 for Rs. 14,225/-	2		I(i)	E Waste of Copying Equipment	ITEW07	TIET NRGP 107 dt.01.07.2[illegible] Manifest SR/2019/M-608 Disposed to M/s Spreco Recy. Regd. With PPCB vide PPCB/S[illegible] 2/LDH/2019/ 2009 dt. 17.05.[illegible] valid upto 30.06.2023
[illegible]	18	01-Jul-22	CIRPID	Recd 7 items as per list attached	7	34 KG	I(i)	E Waste of Copying Equipment	ITEW07	
				Laser Printer 1	1		I(i)	E Waste of Copying Equipment	ITEW07	
				Acua Guard 1	1					
				Photo phase over head Projector	1					
				LCD Projector	1					
				Mitsubishi X-450	1					
				Mitsubishi D 450 U	1					
				HP laser printer	1					
22021		01-Jul-22	DISPOSAL	DISPOSAL OF E WASTE		34 kg				
22023	19	05-Jul-22	Director	Recd 1 No. dell laptop battery against bill No. 1593 dated 30.6.22 for Rs. 3500/-	1		I(i)	Laptop computers	ITEW3	Disposed to M/s Spreco Recy. Regd. With PPCB vide PPCB/SEE/Zo-2/LDH/2019/ 2009 dt. 17.05.2019 valid upto 30.06.2[illegible]
22024	20	05-Jul-22	SCBC	Recd 1 No. toner cartridge sharp against bill No. 0115 dated 23.6.22 for rs. 13,800/-	1		I(i)	E Waste of Copying Equipment	ITEW07	
22025	21	13-Jul-22	SOM	Recd 1 No. toner cartridge photocopy sharp MX-315AT against bill No. 0137 dated 11.7.22 for Rs. 13,958/-	1		I(i)	E Waste of Copying Equipment	ITEW07	Manifest No. SR/2019/M-[illegible] dt. 10.10.2022 and TIET GP No. 145 dt. 10.1[illegible]

Adarsh 03/04/23

E Waste (Management) Rules 2016
FORM - 3

(See rules 4(5), 5(5), 6(6), 9(4), 10(3), 11(5), 13(1) (xi), 13(2) (vi), 13(3) (vii) and 13(4)(v))

THAPAR INSTITUTE

ANNEXURE TO FORM-3 FOR FILING ANNUAL RETURNS

E Waste ANNUAL RETURN REGISTER 2022-23

THAPAR INSTITUTE OF ENGG. & TECHNOLOGY PATIALA

S.No. (E&I)	S.No. (Register)	Date of Receiving	Deptt.	E-Waste Item	Qty (Nos.)	Wt. (Kg)	Schedule	Category	Electrical & Electronic Equipment Code	Remarks
22026	22	2?-Jul-22	CILP	Recd E waste vide written off Approval by Director for CILP dated 22.7.20 following						
				1. CPU D-820	1		I(i)	E Waste of Personal Computers	ITEW2	
				2. Laser Printer HP	1					
				3. Emergency light	2		I(i)	E Waste of Mercury Lamps	CEEW5	
				4. Insect killer + Strips	2		I(i)	E Waste of Mercury Lamps	CEEW5	
				5 Desktop Computer	2		I(i)	E Waste of Personal Computers	ITEW2	
				6. Desktop Computer	1		I(i)	E Waste of Personal Computers	ITEW2	
				7 Dell laptop	1		I(i)	Laptop computers	ITEW3	
				8 Dell Laptop	1		I(i)	Laptop computers	ITEW3	
22027	23	26-Jul-22	CILP	Recd 1 No. HP Laserjet catridge C-388A for against bill no 0718 dated 4.7.22 for Rs. 4,340/-	1		I(i)	E Waste of Copying Equipment	ITEW07	
22028	24	27-Jul-22	CMS SS	Recd 2 Compressor against bill No. MAF 22 23/19 dated 20.7.22 for Rs. 1,01,250/-	2		I(i)	E Waste of Spare Parts of AC	CEEW5	
22029	25	27-Jul-22	ARO	Recd 1 No. laptop battery against bill No. 612 dated 1.7.22 for Rs. 3,813.56.	1		I(i)	Laptop computers	ITEW3	
22030	26	28 Jul 22	[illegible]	Recd 1 No. toner cartridge Sharp MX 500 A against bill No. 0138 dated 11.7.22 for Rs. 13,000/-	1		I(i)	E Waste of Copying Equipment	ITEW7	
22031	27	29-Jul-22	[illegible]	Recd 1 No. Laptop crucial Ram DDR4-3200 8 GB laptop against bill No. G31/22-23/0157 dated 25.7.22	1		I(i)	Laptop computers	ITEW3	
22032	28	09-Aug-22	SOM	Recd 7 Items	7		I(i)	E Waste of Personal Computers	ITEW2	
				Desktop computer 2	2		I(i)	E Waste of Personal Computers	ITEW2	
				Aio Laser Printer 1	1		I(i)	E Waste of Personal Computers	ITEW2	
				Inkjet Printer 1	1		I(i)	E Waste of Personal Computers	ITEW2	
				Dell Server com 2	2		I(i)	E Waste of Personal Computers	ITEW2	
				PTV Computer 1	1		I(i)	E Waste of Personal Computers	ITEW2	
				Recd e-waste vide written off approval by Director for SOM [illegible]						
22033	29	12-Aug-22	CHED	Recd 2 Nos blade laser Toner against bill No 1989 dt 23.6.22 for Rs. 300/-	2		I(i)	E Waste of Copying Equipment	ITEW07	
22034	30	12-Aug-22	[illegible]	Recd one wireless keyboard & Mouse against bill NO. 2151 dated 10.8.22 for Rs. 1230/-	2					
22035	31	18-Aug-22	CMS SS	Received 1 to 7 items valve, Expansion Assy, wire connector, 1 pc indoor fan against bill No. 28 dated 12.8.22 for rs. 26,[illegible]/-	12		I(i)	E Waste of Mercury Lamps	CEEW5	
22036	32	22 Aug 22	CSED	Recd 1 No. Laptop Power cable against bill No [illegible] dt 29.4.22 for Rs. 180/-	1		I(i)	Laptop computers	ITEW3	
22037	33	22 Aug 22	CSED	Recd 1 No. Toner & 1 No. laptop battery against bill NO. 1426 dt 16.5.22 for Rs. 2150/-	2		I(i)	E Waste of Copying Equipment	ITEW07	
22038	34	24-Aug-22	CMS SS-5	Received E-waste Material 21 items as per list attached (Written off) items	21		I(i)	E Waste of Mercury Lamps	CEEW5	
22039	35	24 Aug 22	FO	Recd 1 No laptop hard disk 480 GB [illegible] against bill No. 0505 dated 24 Aug 22 for Rs. 5000/-	1		I(i)	Laptop computers	ITEW3	
22040	36	05-Sep-22	SCBC	Recd Sharp Drum & cleaning blade against bill NO.s 200 dated 16.8.22 for Rs. 13,720/-	2		I(i)	E Waste of Copying Equipment	ITEW07	
22041	37	07 Sep-22	[illegible]	Recd 1 No. HP Toner Cartridge against bill No. C987 dated 10Aug22 for Rs. 6,200/-	1		I(i)	E Waste of Copying Equipment	ITEW07	
22042	38	21 Sep 22	FO	Received old HP toner against bill NO. 1784 dated 10.8.2022 for rs. 4500/-	1		I(i)	E Waste of Copying Equipment	ITEW07	

E Waste (Management) Rules 2016

FORM - 3

(See rules 4(1), 5(1), 8(1), 9(4), 10(1), 11(9), 13(1)(xi), 13(2)(v), 13(3)(vii) and 13(4)(v))

THAPAR INSTITUTE

ANNEXURE TO FORM-3 FOR FILING ANNUAL RETURNS

E Waste ANNUAL RETURN REGISTER 2022-23

THAPAR INSTITUTE OF ENGG. & TECHNOLOGY PATIALA

S.No. (List)	S.No. (Register)	Date of Receiving	Deptt	E Waste Item	Qty (Nos.)	Wt. (Kg)	Schedule	Category	Electrical & Electronic Equipment Code	Remarks
22043	39	26-Sep-22	CMS	Recd 15 items of CMS electrical EST & AC Parts, Fan Motors, etc against bill No. 26 dated 26.9.22	18		[illegible]	E Waste of Mercury Lamps	CEEW5	
22044	40	30 Sep 22	MED	Recd Adaptor Dell & Power cable adapter dell against bill NO. 1251 dt 19.10.2022 for Rs. 2,100/-	2		[illegible]	Laptop computer	ITEW3	
22045	41	30-Sep-22	CMS	Recd Old Inverter CPLC 1-27 11 KW HCN 1 SAC: 55944090 @ 96789/- Bill No. PS10C0011085 dt 23.9.22	1		[illegible]	E Waste of Personal Computers	ITEW2	
22046	42	06-Oct-22	EED	Recd 1 No. toner cartridge HP 12 A against bill No. 1987 dt 29.9.22	1		[illegible]	E Waste of Copying Equipment	ITEW7	
22047	43	07-Oct-22	Tifac-Core	Recd 1 No. Toner Cartridge HP 88A against bill NO. 1946 dated 30.9.22	1		[illegible]	E Waste of Copying Equipment	ITEW7	
22048	44	10-Oct-22	CS	Write off laptop alongwith write off approval of director	3	1.6 KG	[illegible]	Laptop computer	ITEW3	
22049	45	10 Oct 22	CMS	List of CMS recd Light fitters, Rods, CFL LED check list	20 Nos		[illegible]	E Waste of Mercury Lamps	CEEW5	
22050	46	10-Oct-22	CW/ELC	List of writeoff items automotive batteries of forte lift dated 22.9.22	20 Nos					
22051	47	18 Oct 22	E Waste Store	Dispose above E-waste material(Sr. No. 1 to 46) against Gate Pass 145 dated 10.10.22	S. No. 1 to 56	550 KG				
22052	48	17-Oct-22	DD	Recd 1 No. Toner against bill No.2120 dt 28.9.22	1		[illegible]	E Waste of Copying Equipment	ITEW7	TIET NRGP 150 dt. [illegible] Manifest SR/2019/M-[illegible] to Disposed to M/s Spreco Rec (Regd. With PPCB vide PPC SFT/Zo-2/LDH/2019/ 2909 dt 17.06.2019 valid upto 30.06.2[illegible]
22053	49	17-Oct-22	DD	Recd 1 No. toner Against bill No.2121 dt 27.9.22	1		[illegible]	E Waste of Copying Equipment	ITEW7	
22054	50	19-Oct-22	EIED	Recd 1 No. toner Cartridge Against bill NO. 1984 dt 18.10.22	1					
22055	51	27-Oct-22	CSED	Recd 1 No. Power Adaptor against bill No. 332 dt 20.10.22	1		[illegible]	E Waste of Personal Computers	ITEW2	
22056	52	27-Oct-22	C. Library	Recd 1 No. Photocopy Kyocera Cartridge against bill No. 206 dt 15.10.22	1		[illegible]	E Waste of Copying Equipment	ITEW7	
22057	53	28 Oct 22	HR	Recd 1 No. laptop battery against bill No. 2116 dated 22.9.22	1		[illegible]	Laptop computer	ITEW3	
22058	54	01-Nov-22	CS	Write Off reports old laptops 10 No. against bill No. Nil dated 31.10.22	10		[illegible]	Laptop computers	ITEW3	
22059	55	01-Nov-22	CS	Write Off approval old printer, computer, monitor, music system, inverter & Batteries bill no Nil dated 31.10.22	17 Nos		[illegible]	E Waste of Personal Computers	ITEW2	
22060	56	01-Nov-22	MED	Recd old E waste parts of computer monitor Key board & Printer against bill No Nil dated 1.11.22	3 Nos		[illegible]	E Waste of Personal Computers	ITEW2	
22061	57	01-Nov-22	CMS EST &	Recd Tube lights list of items 55-61 LED, CFL as per list attached			[illegible]	E Waste of Mercury Lamps	CEEW5	
22062	N/A	01-Nov-22	CS	E Waste DISPOSAL Gate Pass 150 dated 1.11.22		370 KG				
22063	58	01-Nov-22	CED	Recd old dell mouse MS116 against bill No. 1401 dated 19.10.22	4 Nos		[illegible]	E Waste of Personal Computers	ITEW2	TIET NRGP 65 dt. 17.11.2022 Manifest SR/2019/M-673 and TIET NRGP No. 66 dt. 18-2022 Manifest No. SR/2019/M-[illegible] to Disposed to M/s Spreco Rec (Regd. With PPCB vide PPC SFT/Zo-2/LDH/2019/ 2909 dt 17.06.2019 valid upto 30.06.2[illegible]
22064	59	09-Nov-22	Tifac-Core	Recd 2 old set Keyboard, Mouse & 2 Chip against bill No. 2709 dated 3rd Nov 22	6 Nos		[illegible]	E Waste of Personal Computers	ITEW2	
22065	60	14-Nov-22	SCBC	Write Off approval of Director for instruments as per list A and B attached	A 49 items B 14 items		[illegible]	E Waste of Personal Computers	ITEW2	
22066	61	17-Nov-22	CMS	Recd Old used flood lights from EST-I			[illegible]	E Waste of Mercury Lamps	CEEW5	
				Lights Case	12 Nos					
				Choke	48 Nos					
22067		17.11.2022 & 18-11-2022	CS E Waste	E Waste disposal NRGP 65 & Manifest SR/2019/M-673 dt. 17.11.2022		476 Kg+290 kg				

07/04/23

THAPAR INSTITUTE

E Waste (Management) Rules 2016

FORM - 3

(See rules 4(5), 5(5), 6(6), 8(4), 10(8), 11(7), 13(1)(xi), 13(2)(vi), 13(3)(vii) and 13(4)(vi))

ANNEXURE TO FORM-3 FOR FILING ANNUAL RETURNS

E Waste ANNUAL RETURN REGISTER 2022-23

THAPAR INSTITUTE OF ENGG. & TECHNOLOGY PATIALA

S.No. (Inst.)	S.No. (Register)	Date of Receiving	Deptt.	E-Waste Item	Qty (Nos.)	Wt. (Kg)	Schedule	Category	Electrical & Electronic Equipment Code	Remarks
22068	62	24-Nov-22	LCD	Recd 1 No. ink cartridge against bill No.2056 dt 10.11.22	01 Nos		III	E Waste of Copying Equipment	ITEW07	TIET NRSP 79 dt. 23.1.202[illegible] Manifest 58/2019/M-69
22069	63	29-Nov-22	Director	Recd 1 No. HP laser Printer cartridge against bill No. 2108 dt 28.11.22	1		III	E Waste of Copying Equipment	ITEW07	TIET NRSP No. 80 dt. 24.1.2[illegible] Manifest No. 59/2019/M-68
	64	01-Dec-22	CL	Recd 1 No. Photocopy Kyocera Cartridge against bill No. 265 dt 1.12.22	1		III	E Waste of Copying Equipment	ITEW07	
	65	01-Dec-22	CL	Recd 1 No. Photocopy Kyocera Cartridge against bill No. 263 dt 25.11.22	1		III	E Waste of Copying Equipment	ITEW07	TIET NRSP No. 81 dt. 25.1.2[illegible] Manifest No. 59/2019/M-6[illegible] Disposed to M/s Spreco Rec. (Regd. With PPCB vide PPC SEE/Zo-2/LT-1/2019/2909 dt 17.05.2019 valid upto 30.06.2[illegible]
22070	66	06-Dec-22	SPMS	Recd 1 No. HDD Computer Parts against bill No. 411 dt 2.12.22	1		III	E Waste of Personal Computers	ITEW2	
22071	67	08-Dec-22	DD	Recd 1 No. Compatible toner cartridge 88A against bill No.2120 dt 29.9.22	1		III	E Waste of Copying Equipment	ITEW07	
	68	08-Dec-22	DD	Recd 1 No. Compatible toner cartridge 88A against bill No.2066 dt24.8.22	1		III	E Waste of Copying Equipment	ITEW07	
	69	08-Dec-22	DD	Recd 1 No. Compatible toner cartridge 88A against bill No.1984 dt 13.6.22	1		III	E Waste of Copying Equipment	ITEW07	
22072	70	08-Dec-22	DD	Recd 1 No. Compatible toner cartridge 88A against bill No.2148 dt 18.10.22	1		III	E Waste of Copying Equipment	ITEW07	
22073	71	22-Dec-22	CL	Recd 1 No. Photocopy toner cartridge kyocera against bill No. 296 dt 20.12.22	1		III	E Waste of Copying Equipment	ITEW07	
	72	22-Dec-22	CL	Recd 1 No. Photocopy toner cartridge kyocera against bill No. 289 dt 15.12.22	1		III	E Waste of Copying Equipment	ITEW07	
	73	29-Dec-22	Director	Recd 1 No. HP 201 A Yellow colour laser printer cartridge against bill No. 2224 dt 27.12.22	1		III	E Waste of Copying Equipment	ITEW07	
22074	74	20-Jan-23	Tifac Core	Recd 1 No. SSD 480 GB against bill No. 3628 dt 7.1.23 for Rs. 4500/-	1		III	E Waste of Personal Computers	ITEW2	
22075	75	23-Jan-23	CMS SSTL	Recd E-waste batteries, tube lights, bulbs, stabilizer as per list attached	list	Approx 600 Kg	III	E Waste of Mercury Lamps	CEEW5	
22076	76	23-Jan-23	CMS SSTL	Recd E-waste electrical lights, LED, CFL and fittings as per list attached	22 items	Cms ref dt 22.12.22	III	E Waste of Mercury Lamps	CEEW5	
22077		23-Jan-23	CS E Waste	E Waste disposal	1390 Kg					
22078		24-Jan-23	CS E Waste	E Waste disposal	220 kg					
22079		25-Jan-23	CS E Waste	E Waste disposal	380 kg					
22080	77	31-Jan-23	Tifac Core	Recd 1 No. Cartridge HP 88 A against bill No. 2284 dated 18.1.23	1		III	E Waste of Copying Equipment	ITEW07	TIET NRSP 207 dt. 31.3.20[illegible] Manifest 59/2019/M-70 to Disposed to M/s Spreco Rec. (Regd. With PPCB vide PPC SEE/Zo-2/LT-1/2019/2909 dt 17.05.2019 valid upto 30.06.2[illegible]
22081	78	02-Feb-23	CMS	Recd Disposal of Old multi function meter e-waste material as per list	13Nos			E Waste		
22082	79	08-Feb-23	EIED	Recd 1 No. Toner cartridge sharp MX-[illegible]	01 Nos		III	E Waste of Copying Equipment	ITEW07	
22083	80	13-Feb-23	Legal Cell	Recd 1 No. HP Laptop battery	01 Nos		III	Laptop computers	ITEW3	
22084	81	17-Feb-23	CMS	Recd old lamp set LT (101)	4 Nos		III	E Waste of Mercury Lamps	CEEW5	
				Old ECO Filter (LT101)	01 Nos					
				Old Lamp Set LT (102)	2 Nos					
				Lamp Set 400 w EW-300 (LT-301)	4 Nos					
				Filter Set	2 Nos					
				Recd. old material as per order letter no nil and dated nil						
22085	82	24-Feb-23	CMS	Recd two Nos. ink cartridge against bill No. 1916 dated 6.2.23 for Rs. 3300/-	02 Nos		III	E Waste of Copying Equipment	ITEW07	
22086	83	03-Mar-23	SAS	Recd 1 NO. Laptop battery against bill No. 2411 dated 28.2.23	01 Nos		III	Laptop computers	ITEW3	
22087	84	06-Mar-23	LCCE	Recd 2 Nos Laser toner cartridge against bill No. 2306 dated22.2.23	02 Nos		III	E Waste of Copying Equipment	ITEW07	
22088	85	06-Mar-23	CILP/Edu	Recd 1 No. laserjet cartridge CC 388A against bill No. 2336 dt 4.2.23	01 Nos		III	E Waste of Copying Equipment	ITEW07	

03/04/23

E Waste (Management) Rules 2016

FORM - 3

(See rules 4(5), 5(1), 8(6), 9(4), 10(8), 11(9), 11(1) (xi), 13(2) (v), 13(3) (vii) and 13(4)(vi))

ANNEXURE TO FORM-3 FOR FILING ANNUAL RETURNS

E Waste ANNUAL RETURN REGISTER 2022-23

THAPAR INSTITUTE OF ENGG. & TECHNOLOGY PATIALA

THAPAR INSTITUTE

S.No. (Unit)	S.No. (Register)	Date of Receiving	Deptt.	E-Waste Item	Qty (Nos)	Wt. (Kg)	Schedule	Category	Electrical & Electronic Equipment Code	Remarks
22089	86	06-Mar-23	CWLLC	Recd 1 No. Toner 88 A HP against bill No. 4208 dt3.3.23	01 Nos		[illegible]	E Waste of Copying Equipment	ITEW07	
22090	87	07-Mar-23	ECED	Recd 1 No. toner cartridge & 1 No. laptop adaptor against bill no. 2348 dt 2.3.23	02 Nos		[illegible]	E Waste of Copying Equipment	ITEW07	
22091	88	07-Mar-23	DOAA	Recd 8 items recd from DOAA as per letter no nil dated March 2,2023	8 Items		[illegible]	E Waste of Personal Computer	ITEW2	
				Projector screen	10 Nos		[illegible]	E Waste of Copying Equipment	ITEW07	
				Keyboards	04 Nos		[illegible]	E Waste of Personal Computer	ITEW2	
				Mouse	2 Nos		[illegible]	E Waste of Personal Computer	ITEW2	
				Tonners	4 Nos		[illegible]	E Waste of Personal Computer	ITEW2	
				Room Heater	2 Nos			E Waste		
				AV Receiver	9 Nos					
				Projector HDMI VGA Cables	145 Nos		[illegible]	E Waste of Copying Equipment	ITEW07	
22092	89	10-Mar-23	CILC	Recd 1 No. toner HP 88 A cartridge against bill No. 3238 dt 6.3.23	01 Nos		[illegible]	E Waste of Copying Equipment	ITEW07	
22093	90	10-Mar-23	ECED	Old HDD	1		[illegible]	E Waste of Personal Computer	ITEW2	
22094	91	14-Mar-23	CHE	Old Laptop Battery	1		[illegible]	Laptop computers	ITEW3	
22095	92	17-Mar-23	CED	Old Laptop Battery	1		[illegible]	Laptop computers	ITEW3	
22096	93	22-Mar-23	ECED	Old Laptop Battery	1		[illegible]	Laptop computers	ITEW3	
22097	94	22-Mar-23	ECED	Old Laptop Battery	1		[illegible]	Laptop computers	ITEW3	
22098	95	22-Mar-23	ECED	Old Laptop Battery	1		[illegible]	Laptop computers	ITEW3	
22099	96	23-Mar-23	CILP	Old Cartridge	2		[illegible]	E Waste of Copying Equipment	ITEW07	
22100	97	23-Mar-23	CEEMS	Old Laptop Battery	1		[illegible]	Laptop computers	ITEW3	
22101	98	24-Mar-23	SPMS	Old Cartridge	1		[illegible]	E Waste of Copying Equipment	ITEW07	
22102	99	27-Mar-23	ECED	Old Laptop Battery	1		[illegible]	Laptop computers	ITEW3	
22103	100	31-Mar-23	CCE	Old HDD	1					
22104	101	31-Mar-23	SCBC	Old Toner Blade	1		[illegible]	E Waste of Copying Equipment	ITEW07	
22105	102	31-Mar-23	DOAA	Old Written off E Waste of Projectors, Computers, Monitors,	39		[illegible]	E Waste of Personal Computer	ITEW2	
22106	103	31-Mar-23	CMS	Old Lighting LED, CFL, TL	lot		[illegible]	E Waste of Mercury Lamps	CEEW[illegible]	
22107	104	31-Mar-23	CS	Old Laptop Battery	15		[illegible]	Laptop computers	ITEW3	
22108		31-03-2023	CS E Waste	E Waste Disposal				4[illegible] Kg		

	Qty In MT
E Waste (O.B.) as on 01.04.2022	NIL
E Waste Collected in the year 22-23	4.831
E Waste Disposed during the Year 22-23	4.831
E Waste (C.B.) as on 31.03.2023	NIL

3/4/23

03/04/23

Water Flow Meter Details

Time Period		Tubewell 1 - Readings		
Month	No. of Days in a month	Reading Start in Month	Reading End Month	**Water Consumed M3 / par Month**
April - 2023	30	404447	422931	18484
May- 2023	31	422931	442066	19135
June - 2023	30	442066	454896	12830
July -2023	31	454896	471006	16110
August - 2023	31	471006	494956	23950
September 2023	30	494956	512555	17599
	183			

Time Period		Tubewell 2 - Readings		
Month	No. of Days	Reading	Reading End	**Water**
April - 2023	30	597857	619966	22109
May- 2023	31	619966	644844	24878
June - 2023	30	644844	660373	15529
July -2023	31	660373	678280	17907
August - 2023	31	678280	713643	35363
September 2023	30	713643	756602	42959
	183			

Time Period		Tubewell 3 - Readings		
Month	No. of Days	Reading	Reading End	**Water**
April - 2023	30	4707	10615	5908
May- 2023	31	10615	16714	6099
June - 2023	30	16714	22555	5841
July -2023	31	22555	27710	5155
August - 2023	31	27710	33515	5805
September 2023	30	33515	39060	5545
	183			

Time Period		Tubewell 4- Readings		
Month	No. of Days	Reading	Reading End	**Water**
April - 2023	30	755493	770344	14851
May- 2023	31	770344	789702	19358
June - 2023	30	789702	796418	6716
July -2023	31	796418	812643	16225
August - 2023	31	812643	819613	6970
September 2023	30	819613	838425	18812
	183			

Time Period		Total Water Consumed	M3/ day average
Month	No. of Days		
April - 2023	30	61352	2045.1
May- 2023	31	69470	2241.0
June - 2023	30	40916	1363.9
July -2023	31	55397	1787.0
August - 2023	31	72088	2325.4
September 2023	30	84915	2830.5
	183	384138	

Total No. of Days operational	183
Total Water abstraction during this period	384138
Avg. per day water abstraction	2099.11475

Flyash Consumption TIET

Concrete From Sep 2022 to Sep -2023				
Location	M10	M25	M30	Unit
Hostel D	592	7367	0	Cum
Total	592	7367	0	Cum
Flyash Co.Eff	130	93	105	Kg
Consumption	76960	685131	0	Kg
Subtotal	762091			Kg
Flyash consumption in ACC Block (Sep 2022 to Sep 2023)				
Hostel D	2793			Cum
Total	2793			Cum
Flyash Co.Eff	60%			% per Cum
Consumption	1675.8			Cum
Consumption in KG	1089270			Kg
Subtotal	1089270			Kg
Grand Total	**1851361**			**Kg**
	1851.361			**Ton**

Annexure 10

Form 59

[See Rule 115 (7)]

Pollution Under Control Certificate

Authorised by

Government of Punjab

Date	:	26/08/2023
Time	:	12:59:04 PM
Validity upto	:	23/02/2024

Certificate Sr. No.	:	PB0180187000251[illegible]
Registration No.	:	PB05AN9734
Date of Registration	:	16/Oct/2017
Month & Year of Manufacturing	:	September 2017
Mobile Number	:	******9634
Emission Norms	:	BHARAT STAGE IV
Fuel	:	DIESEL
PUC Code	:	PB0180187
Fees	:	Rs.100.00 (GST to be paid extra as applicable)
MIL illuminated	:	NA

Vehicle Photo with Registration plate 60 mm x 30 mm

Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
	CO	percentage (%)		
High idling emissions	RPM	RPM	2500 ± 200	
	Lambda		1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	1.62	0.77

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note: 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to https://vahan.parivahan.gov.in

Authorised Signature with stamp of PUC operator

[illegible]

10/10/2023
12:01:57 PM
09/04/2024

Rs 100.00
(GST to be paid ...
No

Vehicle Photo with Registration plate
0 mm x 30 mm

Sr. No.	Pollutant (as applicable)	Units (as applicable)		
1	2	3		
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	1.62	0.9

This PUC certificate is system generated through the national register of motor vehicles and d... not require any signature.

Note: 1. Vehicle owners to link their mobile numbers to registered vehicle by logging ... https://...

Authorised Signature with stamp of PUC operator
60mm x 20 mm

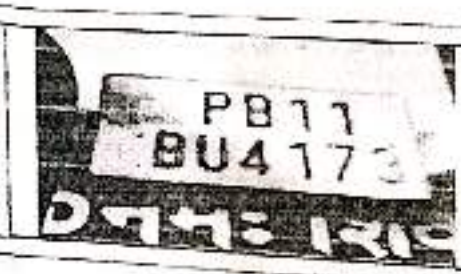
Form 59

[illegible]tificate [See rules 115 (2)]

05/10/2023
09:43:09 AM
04/04/2024

	PB01100550007631
	PB11BU4173
	09/Oct/2015
	October-2018
	******2897
	BHARAT STAGE II
	DIESEL
	PB0110089
	Rs.100.00
	(GST to be paid extra as applicable)
	Na

[illegible]icle Photo with Registration plate
[illegible]mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
[illegible]ing Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
[illegible]High idling [illegible]missions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
[illegible]Smoke Density	Light absorption coefficient	1/metre	2.45	1.26

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

[illegible]ote : 1. Vehicle owners to [illegible] mobile numbers to registered vehicle by logging to https://puc.parivahan.gov.in

[illegible]uthorised Signature with stamp of PUCC operator
[illegible]4mm x 20 mm

Form 59

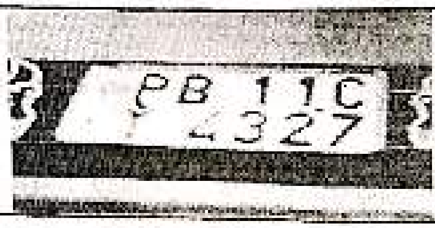
[See rules 115 (2)]

...on Under Control Certificate
...ued By
...ment of Punjab

		05/10/2023
		11:06:15 AM
...y upto	:	04/04/2024

...t. No		
...n No	:	PB01100890007634
...stration	:	PB11CY4327
...te of Manufacturing	:	30/Aug/2021
...Number		June-2021
...ams	:	*****8917
	:	CEV STAGE IV
	:	DIESEL
...Code	:	PB0110089
	:	
	:	Rs.100.00 (GST to be paid extra as applicable)
...bservation	:	No

...hicle Photo with Registration plate
...mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
...ling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
	CO	percentage (%)		
High idling emissions	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
...moke Density	Light absorption coefficient	1/metre	1.62	0.61

...his PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Vehicle owners to link their mobile numbers to registered vehicle by logging to https://puc.parivahan.gov.in

...ed Signature with stamp of PUC operator
...0 mm

PUBLIC NOTICE

Ministry of Environment and Forest & Climate Changes (MoEF &CC), Govt. of India has granted the approval to their project "Expansion of **Thapar Institute of Engineering & Technology, Patiala**" vide letter no **F.No IA3-10/7/2021-IA.III. dated 12-03-21**

The copy of clearance containing the conditions to be complied is available at official website of MoEF &CC and TIET Patiala.

Either of the following mentioned officials may be contacted for further information:-

Dr. Gurbinder Singh Registrar,TIET Patiala
Er. Rajendra Nigam, General Manager (P&E) TIET Patiala

Government of Punjab

Tender Notice Reference No. 65 Dt. 24.03.2021

On behalf of the Governor of Punjab Executive Engineer, Provincial Division, PWD B&R, Sangrur invites online bids for the following works:-

Sr. No.	Item	Quantity
1	Construction of road along Police Line Boundary Wall up to Hareri road under Head 5054 RB-10 including maintainance of road for 5 years.	1
2	Periodical repair of Sunam-Jagatpura Khadial-Taranjikhera up to Sullar (NH-71) road (ORD-19) road length=3.00 Kms. (Under Head 3054) including maintainance of road for 3 years (One Year Defect Liability Period+2 Years Maintainance Period).	1

Closing date & time:- Will be intimated later on website **http:eproc.punjab.gov.in.** For details logon to:- **http:eproc.punjab.gov.in.**

Note: Any corrigendum(s) to the Tender Notice shall be published on the above website only.

Sd/- **Executive Engineer,**
Provincial Divn. PWD B&R,
Sangrur (Pb.).

DPR/Pb/3084

EXCISE & TAXATION DEPARTMENT U.T., CHANDIGARH

Corrigendum regarding change of venue for opening of Technical/Financial e-bids.

This is for information of the general public that venue [illegible] bid and Financial e-bid for

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ਰੂਪਨਗਰ ਇੰਪਰੂਵਮੈਂਟ ਟਰੱਸਟ, ਰੂਪਨਗਰ

ਪਬਲਿਕ ਨੋਟਿਸ

ਇਸ ਪਬਲਿਕ ਨੋਟਿਸ ਰਾਹੀਂ ਆਮ ਜਨਤਾ ਦੀ ਜਾਣਕਾਰੀ ਲਈ ਸੂਚਿਤ ਕੀਤਾ ਜਾਂਦਾ ਹੈ ਕਿ ਪਲਾਟ ਨੰ. 56, ਸਕੀਮ ਸ਼ਹੀਦ-ਏ-ਆਜ਼ਮ ਭਗਤ ਸਿੰਘ ਨਗਰ, ਰੂਪਨਗਰ ਟਰੱਸਟ ਰਿਕਾਰਡ ਅਨੁਸਾਰ ਸ੍ਰੀਮਤੀ ਸ਼ਸ਼ੀ ਬਾਲਾ ਪਤਨੀ ਸ੍ਰੀ ਮੋਹਿੰਦਰ ਕੁਮਾਰ, ਨੇੜੇ ਮੰਦਿਰ ਬੂਟੀ ਦਾਸ, ਛਤਹਿਗੜ੍ਹ ਚੂੜੀਆਂ, ਤਹਿ. ਬਟਾਲਾ, ਜ਼ਿਲ੍ਹਾ ਗੁਰਦਾਸਪੁਰ ਦੇ ਨਾਂ 'ਤੇ ਹੈ। ਮਿਤੀ 26.02.2021 ਨੂੰ ਸ੍ਰੀ ਮੋਹਿੰਦਰ ਕੁਮਾਰ ਸ਼ਰਮਾ ਪੁੱਤਰ ਸ੍ਰੀ ਬ੍ਰਹਮ ਸਾਗਰ ਨੇ ਸ੍ਰੀਮਤੀ ਬਾਲਾ ਉਰਫ਼ ਸ਼ਸ਼ੀ ਸ਼ਰਮਾ ਦੀ ਮੌਤ ਦਾ ਸਰਟੀਫਿਕੇਟ ਅਤੇ ਰਜਿਸਟਰਡ ਵਸੀਅਤ ਦੀ ਕਾਪੀ ਪੇਸ਼ ਕਰਦੇ ਹੋਏ ਬੇਨਤੀ ਕੀਤੀ ਹੈ ਕਿ ਮੇਰੀ ਪਤਨੀ ਸ਼ਸ਼ੀ ਬਾਲਾ ਉਰਫ਼ ਸ਼ਸ਼ੀ ਸ਼ਰਮਾ ਦੀ ਮੌਤ ਮਿਤੀ 02.02.2017 ਨੂੰ ਹੋ ਚੁੱਕੀ ਹੈ, ਇਸ ਲਈ ਪਲਾਟ ਨੰ. 56, ਸ਼ਹੀਦ-ਏ-ਆਜ਼ਮ ਭਗਤ ਸਿੰਘ ਨਗਰ, ਰੂਪਨਗਰ ਰਜਿਸਟਰਡ ਵਸੀਅਤ ਦੇ ਆਧਾਰ 'ਤੇ ਉਨ੍ਹਾਂ ਦੇ ਨਾਂ 'ਤੇ ਤਬਦੀਲ ਕੀਤਾ ਜਾਵੇ। ਹੁਣ ਪਲਾਟ ਨੰ. 56, ਸ਼ਹੀਦ-ਏ-ਆਜ਼ਮ ਭਗਤ ਸਿੰਘ ਨਗਰ ਰਜਿਸਟਰਡ ਵਸੀਅਤ ਮਿਤੀ 09.02.2021 ਦੇ ਆਧਾਰ 'ਤੇ ਸ੍ਰੀ ਮੋਹਿੰਦਰ ਕੁਮਾਰ ਸ਼ਰਮਾ ਪੁੱਤਰ ਸ੍ਰੀ ਬ੍ਰਹਮ ਸਾਗਰ ਦੇ ਨਾਮ ਮੌਤ ਦੇ ਆਧਾਰ 'ਤੇ ਤਬਦੀਲ ਕੀਤਾ ਜਾਣਾ ਹੈ। ਜੇਕਰ ਕਿਸੇ ਵੀ ਵਿਅਕਤੀ ਨੂੰ ਪਲਾਟ ਨੰ. 56, ਸ਼ਹੀਦ-ਏ-ਆਜ਼ਮ ਭਗਤ ਸਿੰਘ ਨਗਰ, ਰੂਪਨਗਰ ਰਜਿਸਟਰਡ ਵਸੀਅਤ ਦੇ ਆਧਾਰ 'ਤੇ ਸ੍ਰੀ ਮੋਹਿੰਦਰ ਕੁਮਾਰ ਸ਼ਰਮਾ ਪੁੱਤਰ ਬ੍ਰਹਮ ਸਾਗਰ ਦੇ ਨਾਮ 'ਤੇ ਕਰਨ ਵਿਚ ਕੋਈ ਵੀ ਇਤਰਾਜ਼ ਹੋਵੇ ਤਾਂ ਉਹ ਆਪਣਾ ਲਿਖਤੀ ਇਤਰਾਜ਼ ਇਸ ਨੋਟਿਸ ਦੇ ਛਪਣ ਦੀ ਮਿਤੀ ਤੋਂ 30 ਦਿਨਾਂ ਦੇ ਅੰਦਰ-ਅੰਦਰ ਇਸ ਦਫ਼ਤਰ ਵਿਖੇ ਲਿਖਤੀ ਰੂਪ ਵਿਚ ਪੇਸ਼ ਕਰ ਸਕਦਾ ਹੈ। ਮਿਥੇ ਸਮੇਂ ਤੋਂ ਬਾਅਦ ਕੋਈ ਵੀ ਇਤਰਾਜ਼ ਸਵੀਕਾਰ ਨਹੀਂ ਕੀਤਾ ਜਾਵੇਗਾ ਅਤੇ ਇਸ ਪਲਾਟ ਦੀ ਮਾਲਕੀ ਸ੍ਰੀ ਮੋਹਿੰਦਰ ਕੁਮਾਰ ਸ਼ਰਮਾ ਪੁੱਤਰ ਸ੍ਰੀ ਬ੍ਰਹਮ ਸਾਗਰ ਦੇ ਨਾਂ 'ਤੇ ਕਰ ਦਿੱਤੀ ਜਾਵੇਗੀ।

ਸਹੀ/- ਚੇਅਰਮੈਨ, ਨਗਰ ਸੁਧਾਰ ਟਰੱਸਟ, ਰੂਪਨਗਰ।

DPR/Pb/3122

Khadi India

राज्य कार्यालय, पंजाब एवं केन्द्रशासित चण्डीगढ़

State Office, Punjab & U.T. Chandigarh

in Mauli Jagran to attend the court hearing.

He is survived by three brothers and two sisters.

SHO of PS Mauli Jagran, of Mauli Jagran. Sources said Shubham gave the car to them for travelling. One of the injured in the shootout, Gaurav, was referred to GMCH-32 for the treatment.

THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY
Patiala (Punjab)
(Deemed to be University)

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Er. Rajendra Nigam, General Manager (P&E) TIET Patiala

SHRI KRISHNA AYUSH UNIVERSITY, KURUKSHETRA
(Umri Road, Sector-8, Kurukshetra, Haryana-136118)

3rd PHYSICAL COUNSELING /ADMISSION NOTICE
BAMS/BHMS FOR ACADEMIC SESSION 2020-21

The 3rd Physical Counseling for vacant seats of all affiliated/Pvt. University colleges of Haryana & UT Chandigarh will be held for BAMS/BHMS in Shri Krishna AYUSH University Kurukshetra on 31.03.2021. Interested NEET qualified candidates are required to reach University in between 9:00 A.M. to 12:30 P.M. All related schedule, terms & conditions, number of vacant seats & name of colleges are available on University Website www.skau.ac.in /UG_Admission.

REGISTRAR

2335/HRY

Centre for Development of Advanced Computing (C-DAC)

...f Electronics and Information

लिए प्रशासनिक स्तर पर शिविर लगाने की बात कही, जिससे छोटे

रोहतास सैनी, दीप चंद, कुलदीप सैनी आदि मौजूद रहे।

THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY
Patiala (Punjab)
(Deemed to be University)

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The copy of clearance containing the conditions to be complied is available at official website of MoEF &CC and TIET Patiala.

Either of the following mentioned officials may be contacted for further information:-

Dr. Gurbinder Singh Registrar, TIET Patiala
Er. Rajendra Nigam, General Manager (P&E) TIET Patiala

ट बैंक आफ इंडिया

एसेट्स मैनेजमेंट ब्रांच, एससीओ 99-107,
PH. 0172-4567164, Email:- sbi.04262@sbi.co.in

1)] कब्ज़ा सूचना (अचल प्रापर्टी हेतु)

ॉफ फाइनांशियल एस्सेट्स एंड इनफोर्समेंट ऑफ सिक्योरिटी इंट्रस्ट एक्ट 2002 (54/2002) के नेजमैंट ब्रांच, पहली मंजिल, एससीओ 99-107, सेक्टर 8-सी, चंडीगढ़ के अधिकृत अधिकारी फोर्समेंट) रूल्ज, 2002 के नियम 3 के साथ पठनीय धारा 13(12) अधीन प्रदत्त शक्तियों का ब्रांच, चंडीगढ़ (04262) में तैनात अधिकृत अधिकारी ने उक्त एक्ट की दफा 13(2) के तहत] करके खाते के गारंटर मै. जेकान इन्फ्रास्ट्रक्चर लिमि.) नामत : 1. श्री रोशन लाल मित्तल पुत्र टर-6, पंचकूला-134109 (हरियाणा), 2. योगिन्द्र मित्तल पुत्र श्री रोशन लाल मित्तल, मकान नं. श्री जतिन्द्र मित्तल पुत्र रोशन लाल मित्तल, मकान नं. 1464, ग्राउंड फ्लोर, सेक्टर 43-बी, चंडीगढ़- नी जतिन्द्र मित्तल, मकान नं. 1464, ग्राउंड फ्लोर, सेक्टर 43-बी, चंडीगढ़-160022 (यहां ये सभी धत डिमांड नोटिस की प्राप्ति की तिथि से 60 दिन के अंदर 01.12.2020 से बनते आकस्मिक खर्चे, राशि पर अनुबंध दर वाले भविष्य के ब्याज समेत दिनांक 30.11.2020 के अनुसार रु. रने के लिए निर्देश दिए गए थे। कर्जदार राशि का भुगतान करने में असफल रहे। अतः कर्जदारों को नता को सूचित किया जाता है कि अधोहस्ताक्षरी द्वारा उक्त नियमों के नियम 8 के साथ पढ़े जाने वाले ा प्रदान की गयी शक्तियों का प्रयोग करते हुए निम्नांकित प्रापर्टी का 25 मार्च, 2021 को प्रतीकात्मक

प्रापर्टी संबंधी कोई लेन-देन न करें और इस

THAPAR INSTITUTE
OF ENGINEERING & TECHNOLOGY
(Deemed to be University)

No. TIET/R/

Dated : March 17, 2021.

The Deputy Commissioner
A-Block, Mini Secretariat
PATIALA.

17/3/2021

Dear Sir,

Please find enclosed herewith letter No. IA3-10/7/2021-IA.III dated March 12, 2021 of Ministry of Environment, Forest and Climate Change, Government of India.

As per the above letter, the Institute has been granted Environment Clearance for expansion of built up area from 3,33,080.33 to 4,45,678.09.

This is for your kind information please.

Thanking you,

With regards,

REGISTRAR

THAPAR INSTITUTE
OF ENGINEERING & TECHNOLOGY
(Deemed to be University)

No. TIET/R/ **Dated : March 17, 2021.**

The Commissioner
Municipal Corporation
PATIALA

Dear Sir,

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With regards,

REGISTRAR

17/3/21

Annexure-13

Annexure 13

THAPAR INSTITUTE
OF ENGINEERING & TECHNOLOGY
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Email Us: info@thapar.edu
Call Us: + (91)- 175-239 3021

EIA CLEARANCE

- Six Month report period ending 31.03.2023
- Six Month report period ending 30.09.2022
- Six Month report period ending 31.03.2022
- Six month report period ending 30.09.2021

ENVIRONMENTAL STATEMENT

(FOR THE YEAR 2022-23)

Received
19/9/2023

FOR

THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

BHADSON ROAD, PATIALA

PUNJAB

Submitted by

Eco Paryavaran Laboratories and Consultants Private Limited

E-207, Industrial Area, Phase-VIIIB (Sector-74), S.A.S Nagar (Mohali) Punjab

qms@ecoparyavaran.org, consent@ecoparyavaran.org, www.ecoparyavaran.org,

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