

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

**Compliance report on conditions imposed in Environmental Clearance for period  
ending 31.03.2022**

**Part A - Specific conditions**

- I. **Pre-Construction Phase**
- II. **Construction Phase:** Not applicable, as project is in operational phase.
- III. **Operation Phase and Entire Life**

S. No.	Compliance conditions	Compliance Reply
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.	Agreed. Renewal of Consent to Operate has been obtained from PPCB vide Certificate No. CTOA/Renewal/SAS/2020/13678339 under Air Act and CTOW/Renewal/SAS/2020/13678381 under Water Act dated 16/12/2020 and valid till 31/03/2021; copy of the same is attached as <b>Annexure 1.</b>
ii.	The total water requirement for the project will be 365 KL/day, out of which 245 KL/day shall be met through own tube well and remaining 95 KL/day through recycling of treated wastewater.	Agreed. The total water requirement of the project is 365 KLD which is being met through own bore wells.
iii.	a) The total wastewater generation from the project will be 272 KL/day, which will be treated in a separate two STPs i.e. capacity 150 KLD based on MBBR technology or better technology to be installed within the project premises. Both of the STPs shall be provided on the basis of module system so as to accommodate the lesser effluent receipts during the initial phase of lower occupancy. As proposed, reuse of treated wastewater and discharge of surplus treated wastewater shall be as per the details mentioned under the salient features:	Agreed. The same is being complied.

iv.	S. No.	Season	For Flushing purposes (KLD)	Green area 4495 sqm (KLD)	into MC Sewer (KLD)
	1.	Summer	95	25	125
	2.	Winter	95	09	141
	3.	Rainy	95	02	148
	b) Storage tank of adequate capacity shall be provided for the storage of treated wastewater and all efforts shall be made to supply the same for construction purposes.				
v.	The project proponent shall ensure safe drinking water supply to the habitants.				Agreed. The individual flat owners have installed their own RO system.
vi.	The wastewater generated from swimming pool(s) shall not be discharged and the same shall be reused within the premises for purposes such as horticulture, HVAC etc.				Agreed. Treated wastewater is being used for horticulture purpose onto green area and excess is being discharged into MC sewer.
vii.	A proper record regarding groundwater abstraction, water consumption, its reuse and disposal shall be maintained on daily basis and shall maintain a record of readings of each such meter on daily basis.				Agreed. Water meter is being provided at the submersible pump and STP outlet. Record of the same is being maintained and is being checked by CGWA and PPCB officials during their respective visits.
viii.	Rainwater harvesting/ recharging systems shall be operated and maintained properly as per CGWA guidelines and maintenance schedule submitted by the project proponent.				Agreed. 4 rain water recharging pits of size 8m x 4m has been provided at suitable pockets with dual bore. Thus, total 8 number of rain water recharging pits have been provided. The rain water recharging plan is implemented as per the duly Signed Approved Report on RWH & Artificial Recharge to Ground Water of Regional Director of CGWB, Chandigarh.
ix.	The facilities provided for collection, segregation, handling, on site storage & processing of solid waste such as chute system, wet & dry bins, collection centre & mechanical composter etc. shall be properly maintained. The collected solid waste shall be segregated at site. The recyclable solid waste shall be sold out to the authorized vendors for which a written tie-up must be done with the authorized recyclers. Organic waste shall be composted by mechanical composters with a minimum capacity of 0.3kg/tenement/day and the inert solid waste shall be sent to the				Agreed. Solid waste is being collected from door to door. The collection, segregation and disposal of the solid waste is being done as per the Solid Waste Management Rules, 2016. However, no Mechanical Composter has been installed and neither separate chute system has been provided for dry and wet waste, as no such condition exists in the Building Approval & Sanction Plans by the Municipal Council, Zirakpur. Also, Assurance letter has been obtained from MC, Zirakpur regarding the solid

	concerned collection centre of integrated municipal solid waste management facility of the area. A proper record in this regard shall be maintained.	waste collection and disposal; copy of the same is attached as <b>Annexure 2</b> . Further, Completion/ Occupation Certificate have also been obtained from Municipal Council, Zirakpur vide Letter No. 3756, dated: 18.02.2020; copy of the same is enclosed as <b>Annexure 3</b> .
x.	Hazardous waste/E-waste should be disposed of as per Rules applicable and with the necessary approval of the Punjab Pollution Control Board.	Since, it is a housing project. Thus, no major hazardous waste or biomedical waste is being produced except spent oil of DG sets which is being given to PPCB approved recyclers.
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.	Agreed. Adequate parking space has been provided within the project premises. Entry and Exit point are so designed that there is no traffic congestion. Photographs showing the parking area is enclosed as <b>Annexure 4</b> .
xii.	The project proponent before allowing any occupancy shall obtain completion and occupancy certificate from the Competent Authority and submit a copy of the same to the SEIAA, Punjab.	Agreed. Completion/ Occupation Certificate have also been obtained from Municipal Council, Zirakpur vide Letter No. 3756, dated: 18.02.2020; copy of the same is enclosed as <b>Annexure 3</b> .
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.	Agreed. Adequate green belt is provided along the boundary and inside the premises to keep the environment safe. Photographs showing the green area provided within the project premises and along the boundary are attached at <b>Annexure 4</b> .
xiv.	Solar power plant and other solar energy related equipment shall be operated and maintained properly.	Solar lights have been provided on the path ways and being maintained properly.
xv.	A report on the energy conservation measures conforming to energy conservation norms 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&CC, the Zonal Office of CPCB and the SPCB/SEIAA in three months time.	The maximum possible energy saving scheme is being adopted. LED lights have been provided in the common areas.

**Part B. General Conditions:**

- I. Pre-Construction Phase**  
**II. Construction Phase:** Project is in operational phase.  
**III. Operation Phase and Entire Life**

S. No.	Conditions	Reply
i.	<p>a) The entire cost of the environmental management plan 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 under intimation to SEIAA, Punjab. The project proponent shall spend minimum amount as proposed in the EMP.</p> <p>b) The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA.III dated 1<sup>st</sup> May 2018, regarding Corporate Environment Responsibility (CER).</p> <p style="text-align: center;">4</p>	<p>The budgetary details for activities undertaken under environment management plan is enclosed as <b>Annexure 5</b>.</p> <p>Rs. 22.05 lakhs have been spent under Remediation Plan and Natural and Community Resource Augmentation Plan. The details of the activities undertaken are given below:</p> <ul style="list-style-type: none"><li>• Rs. 7.50 lakhs for construction of rain water harvesting works at Guruduwara Shri Guru Singh Sabha, Lohgarh, Zirakpur dated 12.03.2020.</li><li>• Rs.4.55 lakhs on Horticulture &amp; Green Area Development works at Govt. Sr. Secondary School, Lohgarh, Zirakpur dated 21.08.2019.</li><li>• Rs. 7.50 lakhs for Rain Water Harvesting works at Govt. Sr Secondary School, Lohgarh, Zirakpur dated 21.11.2019.</li><li>• Rs. 2.50 lakhs for Horticulture &amp; Green Area Development works at Govt. ITI, Derabassi at Zirakpur dated 21.08.2019.</li></ul>
ii.	<p>The diesel generator sets to be provided shall conform to the provisions of Diesel Generator Set Rules prescribed under the Environment (Protection) Act, 1986. The exhaust pipe of DG set if installed must be</p>	<p>Agreed. Diesel generator sets conform to the provisions of Diesel Generator Set Rules prescribed under the Environment (Protection) Act, 1986.</p>

	minimum 10 m away from the building or in case it is less than 10 m away, the exhaust pipe shall be taken up to 3 m above the building.	
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**PART-C – Conditions common for all the three phases i.e. Pre-Construction Phase, Construction Phase and Operation Phase & Entire Life**

S. No.	Conditions	Reply
i.	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal, 2010.	No appeal has been done against this environmental clearance issued within 30 days' time.
ii.	A first aid room will be provided in the project during construction and operation of the project.	Agreed. First aid kit has been provided at Security Guards room at entrance of Rail Vihar Society. Photographs of the same is attached within the <b>Annexure 4</b> .
iii.	Construction of the STP, solid waste, e-waste, hazardous waste, storage facilities tubewell, DG Sets, Utilities etc. earmarked by the project proponent on the layout plan, should be made in the earmarked area only. In any case the position/location of these utilities should not be changed later-on.	Agreed. These utilities has been provided in the earmarked area as per the layout plan.
iv.	The environmental safeguards contained in the application of the promoter/ mentioned during the presentation before State Level Environment Impact Assessment Authority/ State Expert Appraisal Committee should be implemented in letter and spirit.	Agreed. The environmental safeguards is being implemented in true spirit.
v.	Ambient air & noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air quality, noise especially during worst noise generating activities, water quality and soil should be periodically monitored during construction phase as well as operation & entire life phase as per the MoEF&CC guidelines and all the mitigation measures should be taken to	Agreed. The monitoring of ambient air and noise levels has been done and results are within the permissible limits. Test report are enclosed as <b>Annexure 6</b> .

	bring down the levels within the prescribed standards	
vi.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest (Conservation) Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, by project proponents from the other statutory bodies as applicable. The project proponent shall also obtain permission from the NBWL, if applicable.	Agreed. All necessary approvals have been obtained as and when required. Such as: <ul style="list-style-type: none"> <li>• Renewal of Consent to Operate has been obtained from PPCB; copy of the same is attached as <b>Annexure 1</b>.</li> <li>• Assurance letter has been obtained from MC, Zirakpur regarding the solid waste collection and disposal; copy of the same is attached as <b>Annexure 2</b>.</li> <li>• NOC has been obtained from Fire Department; copy of the same is attached along as <b>Annexure 7</b>.</li> <li>• Structural Safety Certificate is attached along as <b>Annexure 8</b>.</li> <li>• CGWA NOC has been obtained; copy of the same is enclosed as <b>Annexure 9</b>.</li> </ul>
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.	All the necessary measures have been taken and implemented properly. However, the project is in process to hand over to Resident Welfare Association (RWA). Thus, the additional measures will be taken care by them in future.
viii.	A proper record showing compliance of all the conditions of environmental clearance shall be maintained and made available at site at all the times.  6	Agreed. Proper record showing compliance of all the conditions of environmental clearance is being maintained and is available at project at all times.
ix.	The project proponent shall also submit half yearly compliance reports in respect of the stipulated prior environmental clearance terms & conditions including results of monitored data (both in hard & soft copies) to the respective Regional office of MoEF, the Zonal Office of CPCB, the SPCB and SEIAA, Punjab on	Agreed. Six monthly compliance reports in respect of the stipulated prior environmental clearance terms & conditions including results of monitored data is being submitted to RO, MoEF&CC, Chandigarh and SEIAA, Punjab.

	1 <sup>st</sup> June and 1 <sup>st</sup> December of each calendar year.	
x.	Officials from the Regional Office of Ministry of Environment & Forests, Chandigarh/ State Level Environment Impact Assessment Authority/ State Level Expert Appraisal Committee/ Punjab Pollution Control Board who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/ data by the project proponents during their inspection. A complete set of all the documents submitted to State Environment Impact Assessment Authority should be forwarded to the APCCF, Regional Office of Ministry of Environment & Forests, Chandigarh.	Agreed. Full cooperation, facilities and data will be provided for the implementation of environmental safeguards to officials of statutory bodies during their inspection at project.
xi.	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by State Environment Impact Assessment Authority.	Agreed. Fresh application will be submitted to SELAA, Punjab, if any changes/expansion will be done.
xii.	Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project and decisions of any competent court, to the extent applicable.	Agreed.
xiii.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, SEIAA, Punjab & the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels for all	Agreed. The Environment Clearance compliance will be uploaded on the website. Also, the display board has been provided at the suitable location near the main gate.
	the parameters of NAAQM standards shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	
xiv.	The project proponent shall submit action plan specifying the timeline for completion of activities under Corporate	The Remediation Plan and Natural and Community Resource Augmentation Plan has already been submitted to

	Social Environment Responsibility to the concerned Regional office of Punjab Pollution Control Board for the monitoring of the same, within 30 days from the date of issuance of the environmental clearance letter.	PPCB.
xv.	The inlet and outlet point of natural drain system should be maintained with adequate size of channel for ensuring unrestricted flow of water. The unpaved area shall be more than or equal to 20% of the recreational open spaces	Agreed. The inlet and outlet point of natural drain system are being maintained properly.
xvi.	Environmental Management Cell shall be formed during operation phase which will supervise and monitor the environment related aspects of the project.	Agreed. The project is in process to handover to Resident Welfare Association (RWA). Thus, the monitoring and supervision of environment related aspects will be taken care by Resident Welfare Association (RWA).
xvii.	The plantation should be provided as per SEIAA guidelines and as per notification dated 09.12.2016 issued by MoEF&CC, New Delhi.	Adequate green area has been provided within the project premises as per the approved plan by MC, Zirakpur. Photographs showing the green area are enclosed as <b>Annexure 4</b> .
xviii.	The project proponent shall not use any chemical fertilizer/ pesticides/ insecticides and shall use only Herbal pesticides/ insecticides and organic manure in the green area.	Agreed. No chemical based fertilizer/ pesticides/ insecticides are being used on to the green area provided within the project premises.





**PUNJAB POLLUTION CONTROL BOARD**

Zonal Office-I, Vatavaran Bhawan, Nabha Road, Patiala  
Website:- [www.ppcb.gov.in](http://www.ppcb.gov.in)

ems Annexure 1

2021-01-12 15:48:05

Annexure 1

Office Dispatch No : Registered/Speed Post Date:  
Industry Registration ID: O16SAS4074435 Application No: 10132105

To,  
Bhupinder Singh  
Vip Road, Zirakpur, Tehsil Dera Bassi, Distt. Sas Nagar  
Zirakpur, Sasnagarpunjab-140603

Subject: Grant of '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 '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/Fresh/SAS/2019/10132105
Date of issue :	19/09/2019
Date of expiry :	31/03/2020
Certificate Type :	Fresh

**2. Particulars of the Industry**

Name & Designation of the Applicant	Bhupinder Singh, (General Manager)
Address of Industrial premises	Indian Railway Welfare Organisation, Village Bishanpura, Vip Road, Zirakpura, Tehsil Dera Bassi, Distt. Mohali, Derabassi, Sas Nagar-140603
Capital Investment of the Industry	15939.13 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	Sas Nagar
Consent Fee Details	Rs.7,20,000/- (Rs. 1,80,000 vide R. no. 80/4612 dated 19.03.2018, Rs. 1,80,000/- vide R. no. 81/4612 dated 19.03.2018 and Rs. 3,60,000/- vide CR. no. 74/4853 dated 15/3/2019.
Raw Materials (Name with Quantity per day)	Construction Project having @ 443 flats.
Products (Name with Quantity per day)	Construction Project having @ 443 flats.
By-products (Name with Quantity per day)	Construction Project having @ 443 flats.

Details of the machinery and process	As per application no.10132105
Quantity of fuel required (in TPD) and capacity of boilers/ Furnace/Thermo heater etc.	2 no. DG set of 620 KVA each - HSD @ 80 lt/day each as fuel - Canopy and stack of 5.5 mt. above roof level each.
Type of Air Pollution Control Devices to be installed	2 no. DG set of 620 KVA each - HSD @ 80 lt/day each as fuel - Canopy and stack of 5.5 mt. above roof level each.
Stack height provided with each boiler/thermo heater/Furnace etc.	2 no. DG set of 620 KVA each - HSD @ 80 lt/day each as fuel - Canopy and stack of 5.5 mt. above roof level each.
Sources of emissions and type of pollutants	DG Set - SPM, SOx, NOx
Standards to be achieved under Air(Prevention & Control of Pollution) Act, 1981	As per emission standards prescribed by the PPCB/ MoEF&CC from time to time.

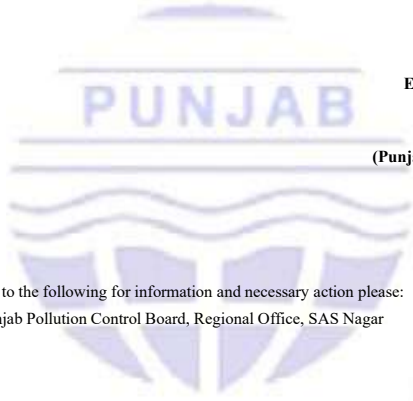


19/09/2019

**(Rakesh Kumar)**  
**Environmental Engineer**

For & on behalf  
of

**(Punjab Pollution Control Board)**



**Endst. No.:**

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, SAS Nagar



19/09/2019

**(Rakesh Kumar)**  
**Environmental Engineer**

For & on behalf  
of

**(Punjab Pollution Control Board)**

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**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 Qg <sup>0.3</sup> or H = 74 (Qp) <sup>0.24</sup> Where Qg = Quantity of SO2 in Kg/hr.

**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:**

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

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

$$H = h + 0.2 \sqrt{(KVA)0.5} + 3.0 \text{ mt.}$$

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:-  
**1/2 In 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. 1/2**
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.	
<i>Area upto 5 Km from Other than 'A' class Other than the periphery of I and Class-II town</i>		
Less than 2 ton/hr.	800 mg/NM3	1200 mg/NM3
2 ton to 10 ton/hr.	500 mg/NM3	1000 mg/NM3
<del>All emissions controlled to 12% carbon dioxide</del>		500 mg/NM3

17. ~~The industry shall ensure that the Hazardous Wastes generated from the process are handled as per the provisions of the Hazardous 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;

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- (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 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.

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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.



19/09/2019

**(Rakesh Kumar)**  
**Environmental Engineer**

*For & on behalf*  
*of*

**(Punjab Pollution Control Board)**



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*Indian Railway Welfare Organisation, Village Bishanpura, Vip Road, Zirakpura, Tehsil Dera Bassi, Distt. Mohali, Derabassi, Sas Nagar, 140603*

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**PUNJAB POLLUTION CONTROL BOARD**

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

Website:- [www.ppcb.gov.in](http://www.ppcb.gov.in)

Office Dispatch No : Registered/Speed Post Date:  
Industry Registration ID: O16SAS4074435 Application No: 13678339

To,  
Gurdeep Singh  
Rail Vihar, At Vip Road, Zirakpur, Distt. Mohali  
Zirakpur, Mohali-140603

Subject: Extension in the validity of consent to operate under Air (Prevention and Control of Pollution) Act, 1981.

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

Consent to Operate Certificate No.	CTOA/Renewal/SAS/2020/13678339
Date of issue :	16/12/2020
Date of expiry :	31/03/2021
Certificate Type :	Renewal
Previous CTO No. & Validity :	CTOA/Fresh/SAS/2019/10132105 From: 19/09/2019 To: 31/03/2020

**2. Particulars of the Industry**

Name & Designation of the Applicant	Gurdeep Singh, (Project Manager)
Address of Industrial premises	Indian Railway Welfare Organisation (irwo)/ Rail Vihar, Rail Vihar, Village Bishanpura, At Vip Road, Zirakpur, Tehsil Dera Bassi, Distt. Mohali, Derabassi, Sas Nagar-140603
Capital Investment of the Industry	16075.42 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	Sas Nagar

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Indian Railway Welfare Organisation (irwo)/ Rail Vihar, Rail Vihar, Village Bishanpura, At Vip Road, Zirakpur, Tehsil Dera Bassi, Distt. Mohali, Derabassi, Sas Nagar, 140603

Page 1

This has reference to the request of the project proponent for renewal of consent to operate granted by the Board under the Air (Prevention & Control of Pollution) Act, 1981.

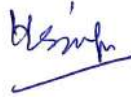
The validity of consent to operate granted to the project proponent vide no. CTOA/Fresh/SAS/2019/10132105 dated 19/9/2019 valid upto 31/3/2020, is hereby extended upto 31/3/2021, with same conditions as mentioned therein and following specific conditions :

1. The project proponent shall comply with the conditions of the environmental clearance granted to it.
2. The project proponent shall properly handle and manage the solid waste as per the provisions of the Solid Waste Management Rules 2016.
3. The project proponent shall provide mechanical composter of capacity 535 kg/ day for composting of bio-degradable waste within 2 months.
4. The promoter shall provide a buffer zone of green belt (dense populated trees with pleasant fragrance) around the sewage treatment plant, so as to reduce the effect of odor problem on the nearby residential area.

The project proponent shall be bound to comply with all the conditions imposed in the original consent to operate granted to it under the Air (Prevention & Control of Pollution) Act, 1981 as well as above mentioned conditions.

This letter shall remain appended with the original consent to operate letter issued to the project proponent under the Air (Prevention & Control of Pollution) Act, 1981.





16/12/2020

**(Harjit Singh)**  
**Environmental Engineer**

For & on behalf  
of

**(Punjab Pollution Control Board)**

**Endst. No.:**

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, SAS Nagar.



16/12/2020

**(Harjit Singh)**  
**Environmental Engineer**

For & on behalf  
of

**(Punjab Pollution Control Board)**

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*Indian Railway Welfare Organisation (irwo)/ Rail Vihar, Rail Vihar, Village Bishanpura, At Vip Road, Zirakpur, Tehsil Dera Bassi, Dist. Mohali, Derabassi, Sas Nagar, 140603*

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**PUNJAB POLLUTION CONTROL BOARD**

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

Website:- [www.ppcb.gov.in](http://www.ppcb.gov.in)

Office Dispatch No : Registered/Speed Post Date:  
Industry Registration ID: O16SAS4074435 Application No : 11527446

To, **Bhupinder Singh**  
Vip Road, Zirakpur, Tehsil Dera Bassi, Distt. Sas Nagar  
Zirakpur, Sasngarpunjab-140603

Subject: Grant of '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 '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 for discharge 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/Fresh/SAS/2019/11527446
Date of issue :	30/12/2019
Date of expiry :	31/03/2020
Certificate Type :	Fresh

**2. Particulars of the Industry**

Name & Designation of the Applicant	Bhupinder Singh, (General Manager)
Address of Industrial premises	Indian Railway Welfare Organisation, Village Bishanpura, Vip Road, Zirakpura, Tehsil Dera Bassi, Distt. Mohali, Derabassi, Sas Nagar-140603
Capital Investment of the Industry	15939.13 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	Sas Nagar
Consent Fee Details	Rs. 1,80,000 vide R. no. 80/4612 dated 19.03.2018 as water consent fee and Rs. 1,80,000/- vide R. no. 81/4612 dated 19.03.2018 and has deposited Rs. 3,60,000/- vide CR. no. 74/4853 dated 15/3/2019 as „consent to operate fee under Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981 and Rs. 1,92,000/- vide R. no. 89/4862 dated 14.08.2019
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Raw Materials(Name with quantity per day)	Construction project having 443 flats
Products(Name with quantity per day)	Construction project having 443 flats

Indian Railway Welfare Organisation, Village Bishanpura, Vip Road, Zirakpura, Tehsil Dera Bassi, Distt. Mohali, Derabassi, Sas Nagar-140603

By-Products, if any.(Name with quantity per day)	--
Details of the machinery and processes	As per application no. 11527446
Details of the Effluent Treatment Plant	Domestic Effluent @ 196.0 KLD--After STP-95 KLD for Flushing purposes, 25 KLD for green area and remaining 125-145 KLD into MC sewer.
Mode of Disposal	Domestic Effluent @ 196.0 KLD--After STP-95 KLD for Flushing purposes, 25 KLD for green area and remaining 125-145 KLD into MC sewer.
Standards to be achieved under Water(Prevention & Control of Pollution) Act, 1974	As per effluent standards prescribed by the PPCB/ MoEF&CC from time to time.

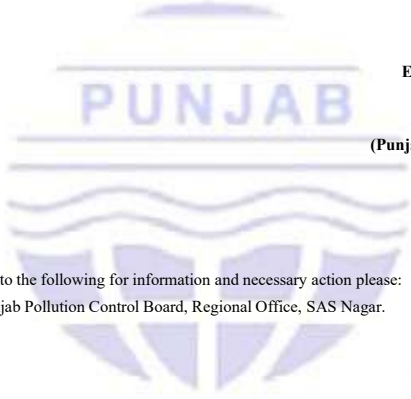


30/12/2019

**(Rakesh Kumar)**  
Environmental Engineer

For & on behalf  
of

**(Punjab Pollution Control Board)**



**Endst.No.:**

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, SAS Nagar.



30/12/2019

**(Rakesh Kumar)**  
Environmental Engineer

For & on behalf  
of

**(Punjab Pollution Control Board)**

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Indian Railway Welfare Organisation, Village Bishanpura, Vip Road, Zirakpura, Tehsil Dera Bassi, Distt. Mohali, Derabassi, Sas Nagar, 140603

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## 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 conform 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/recirculation 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 equipment<sup>1/2</sup>s 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 dated 14/9/06, 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.

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*Indian Railway Welfare Organisation, Village Bishanpura, Vip Road, Zirakpura, Tehsil Dera Bassi, Distt. Mohali, Derabassi, Sas Nagar, 140603*

*Page 3*

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.

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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 promoter company shall keep adequate no. of bins at its main gate from where the solid waste shall be collected and transported by the operator of Integrated MSW Management Facility.
2. The promoter shall regularly operate and maintain its sewage treatment plants and ensure that the treated sewage conforms to the effluent standards prescribed by the Board / Ministry of Environment and Forests & Climate Change for such discharges.
3. The promoter shall not discharge the treated effluent into any drain.
4. The promoter shall install separate energy meter for its sewage treatment plants and maintain the record on daily basis of consumption of energy for the running and maintenance of sewage treatment plants.
5. The promoter shall obtain the authorization under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
6. The promoter shall ensure the compliance of the Solid Waste Management Rules, 2016 as well as the Construction and Demolition Rules, 2016.
7. The promoter shall ensure the provisions contained in the guidelines / criteria for abstraction of ground water, notified by the Central Ground Water Authority (CGWA) from time to time and obtain permission from authorities concerned in this regard.
8. The promoter shall ensure the compliance of the E-Waste (Management) Rules, 2016.
9. The promoter shall ensure the compliance of stipulations mentioned by the Deptt. of Town & Country Planning while granting permission for change of land use.
10. 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.
11. In case the promoter fails to comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, Environment (Protection) Act, 1986 and/or any other environmental law applicable to the project and Rules, Circulars & Directions issued by the Board from time to time, action as deemed fit shall be taken against the promoter.



30/12/2019

**(Rakesh Kumar)**  
**Environmental Engineer**

*For & on behalf*

*of*

**(Punjab Pollution Control Board)**

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*Indian Railway Welfare Organisation, Village Bishanpura, Vip Road, Zirakpura, Tehsil Dera Bassi, Distt. Mohali, Derabassi, Sas Nagar, 140603*

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**PUNJAB POLLUTION CONTROL BOARD**  
Zonal Office-I, Vatavaran Bhawan, Nabha Road, Patiala  
Website:- [www.ppcb.gov.in](http://www.ppcb.gov.in)

Office Dispatch No : Registered/Speed Post Date:  
Industry Registration ID: O16SAS4074435 Application No : 13678381

To,  
Gurdeep Singh  
Rail Vihar, At Vip Road, Zirakpur, Distt. Mohali  
Zirakpur, Mohali-140603  
Subject: Extension in the validity of consent to operate under Water (Prevention & Control of Pollution) Act, 1974.

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

Consent to Operate Certificate No.	CTOW/Renewal/SAS/2020/13678381
Date of issue :	16/12/2020
Date of expiry :	31/03/2021
Certificate Type :	Renewal
Previous CTO No. & Validity :	CTOW/Fresh/SAS/2019/11527446 From:30/12/2019 To:31/03/2020
<b>2. Particulars of the Industry</b>	
Name & Designation of the Applicant	Gurdeep Singh, (Project Manager)
Address of Industrial premises	Indian Railway Welfare Organisation (irwo)/ Rail Vihar, Rail Vihar, Village Bishanpura, At Vip Road, Zirakpur, Tehsil Dera Bassi, Distt. Mohali, Derabassi, Sas Nagar-140603
Capital Investment of the Industry	16075.42laks
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	Sas Nagar

This has reference to the request of the project proponent for renewal of consent to operate granted by the Board under the Water (Prevention & Control of Pollution) Act, 1974.

The validity of consent to operate granted to the project proponent vide no. CTOW/Fresh/SAS/2019/11527446 dated 30/12/2019 valid upto 31/3/2020, is hereby extended upto 31/3/2021, with same conditions as mentioned therein and following specific conditions :

1. The project proponent shall comply with the conditions of the environmental clearance granted to it.
2. The project proponent shall properly handle and manage the solid waste as per the provisions of the Solid Waste Management Rules 2016.
3. The project proponent shall provide mechanical composter of capacity 535 kg/ day for composting of bio-degradable waste within 2 months.
4. The project proponent shall install one more rain water harvesting pit/ bore well in compliance to the Environmental Clearance granted to it within one month.
5. The project proponent shall maintain proper record of water meter installed on the submersible pump and at outlet of sewage treatment plant on daily basis.
6. The promoter shall provide a buffer zone of green belt (dense populated trees with pleasant fragrance) around the sewage treatment plant, so as to reduce the effect of odor problem on the nearby residential area.

The project proponent shall be bound to comply with all the conditions imposed in the original consent to operate granted to it under the Water (Prevention & Control of Pollution) Act, 1974 as well as above mentioned conditions.

This letter shall remain appended with the original consent to operate letter issued to the project proponent under the Water (Prevention & Control of Pollution) Act, 1974.



16/12/2020

**(Harjit Singh)**  
**Environmental Engineer**

*For & on behalf*

*of*

**(Punjab Pollution Control Board)**

**Endst. No.:**

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, SAS Nagar.

16/12/2020

**(Harjit Singh)**  
**Environmental Engineer**

*For & on behalf*

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*Indian Railway Welfare Organisation (irwo)/ Rail Vihar, Rail Vihar, Village Bishanpura, At Vip Road, Zirakpur, Tehsil Dera Bassi, Dist. Mohali, Derabassi, Sas Nagar, 140603*

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*Indian Railway Welfare Organisation (irwo) Rail Vihar, Rail Vihar, Village Bishanpura, At Vip Road, Zirakpur, Tehsil Dera Bassi, Dist.  
Mohali, Derabassi, Sas  
Nagar, 140603  
Page 3*





**PUNJAB POLLUTION CONTROL BOARD**  
Zonal Office-I, Vatavaran Bhawan, Nabha Road, Patiala  
Website: www.ppcb.gov.in

Office Dispatch No : \_\_\_\_\_ Registered/Speed Post \_\_\_\_\_ Date: \_\_\_\_\_  
Industry Registration ID: 016SAS4074435 Application No : 15463732

To,  
Gurdeep Singh  
Rail Vihar, At Vip Road, Zirakpur  
Zirakpur, Mohali-140603  
Subject: Renewal of Consent to Operate under section 25 of the Water (Prevention & Control of Pollution) Act, 1974.

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

Consent to Operate Certificate No.	CTOW/Renewal/SAS/2021/15463732
Date of issue :	08/06/2021
Date of expiry :	31/03/2022
Certificate Type :	Renewal
Previous CTO No. & Validity :	CTOW/Renewal/SAS/2020/13678381 From:16/12/2020 To:31/03/2021

2. Particulars of the Industry

Name & Designation of the Applicant	Gurdeep Singh, (Project Manager)
Address of Industrial premises	Indian Railway Welfare Organisation (irwo)/ Rail Vihar, Rail Vihar, Village Bishanpura, At Vip Road, Zirakpur, Tehsil Dera Bassi, Distt. Mohali, Derabassi, Sas Nagar-140603
Capital Investment of the Industry	16075.42 lakhs
Category of Industry	Red
Type of Industry	Building, Const. projects, Township & Area development ..... covered under ELA notification dated 14/9/06
Scale of the Industry	Large
Office District	Sas Nagar

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Indian Railway Welfare Organisation (irwo)/ Rail Vihar, Rail Vihar, Village Bishanpura, At Vip Road, Zirakpur, Tehsil Dera Bassi, Distt. Mohali, Derabassi, Sas Nagar, 140603

All the term and conditions same as mentioned in the original consent no. CTOW/Renewal/SAS/2020/13678381 dated 16/12/2020, valid upto 31/03/2021 issued to the project proponent. This extension letter may be appended with the original consent letter issued to the project proponent and subsequent extensions letters with an additional condition as under:

1. The project proponent shall comply with the conditions of the environmental clearance granted vide no. DECC/SELAA/2019/311 dated 02.04.2019 by the SELAA, Punjab, in true letter & spirit.
2. The project proponent shall properly handle and manage the solid waste as per the provisions of the Solid Waste Management Rules 2016. The project proponent shall provide mechanical composter of capacity 535 kg/ day for composting of bio-degradable waste within one month.
3. The project proponent shall regularly operate & maintain its sewage treatment plant (STP) and the treated effluent shall be utilized for flushing purpose or discharged onto land for plantation / irrigation or into MC sewer conforming to the effluent standards prescribed by the Board for such discharges. Further, the promoter company shall maintain proper record regarding the operation of its sewage treatment plant (STP) at all times and make it available to the officer of the Board during the conduct of visit, without fail.
4. The project proponent shall ensure that no effluent from plantation area is going into any choe / drain directly or indirectly.
5. The project proponent maintain the record on daily basis of water meter installed on the submersible pump(s) and at the outlet(s) of sewage treatment plants.
6. The project proponent shall install flow measuring devices with supply lines of treated wastewater being reused for flushing purpose & for irrigation purpose and maintain record regarding the same on daily basis.
7. The project proponent shall carry out additional plantation of odour absorbing and fragrant trees/ plants along the STP in the upcoming monsoon season, so as to rule out the effect of odor problem on the nearby residential area.
8. The project proponent shall get the NOC granted by the CGWA updated in congruence to the ground water abstraction limit mentioned in the Environment Clearance granted to it i.e. 245 KLD. Moreover, the project proponent shall explore the possibility of getting Municipal Supply of water from MC, Zirakpur if the supply lines are feasible to be laid in the area.



08/06/2021

(Kuldeep Singh)  
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, SAS Nagar. He shall visit the project site to monitor the STP / project site and to verify the mode of disposal as per protocol of the Board and send the report in case of violation under the environmental laws, observed, if any.

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Indian Railway Welfare Organisation (irwo) Rail Vihar, Rail Vihar, Village Bishanpura, At Vp Road, Zirakpur, Tehsil Dera Bassi, Distt. Mohali, Derabassi, Sas Nagar, 140603

Page 2

08/06/2021

**( Kuldeep Singh )**  
**Environmental Engineer**  
*For & on behalf*  
*of*  
**(Punjab Pollution Control Board)**



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*Indian Railway Welfare Organisation (irwo), Rail Vihar, Rail Vihar, Village Bishanpura, At Pip Road, Zirakpur, Tehsil Dera Bassi, Distt. Mohali, Derabassi, Sas  
Nagar, 140603*

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**PUNJAB POLLUTION CONTROL BOARD**

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

Website:- www.ppcb.gov.in

Office Dispatch No : Registered/Speed Post Date:  
Industry Registration ID: O16SAS4074435 Application No : 15463228

To,  
Gurdeep Singh  
Rail Vihar, At Vip Road, Zirakpur  
Zirakpur, Mohali-140603

Subject: Renewal of Consent to Operate under section 21 of the Air (Prevention & Control of Pollution) Act, 1981.

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

Consent to Operate Certificate No.	CTOA/Renewal/SAS/2021/15463228
Date of issue :	08/06/2021
Date of expiry :	31/03/2022
Certificate Type :	Renewal
Previous CTO No. & Validity :	CTOA/Renewal/SAS/2020/13678339 From:16/12/2020 To:31/03/2021

2. Particulars of the Industry

Name & Designation of the Applicant	Gurdeep Singh, (Project Manager)
Address of Industrial premises	Indian Railway Welfare Organisation (irwo)/ Rail Vihar, Rail Vihar, Village Bishanpura, At Vip Road, Zirakpur, Tehsil Dera Bassi, Distt. Mohali, Derabassi, Sas Nagar-140603
Capital Investment of the Industry	16075.42 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	Sas Nagar

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Indian Railway Welfare Organisation (irwo)/ Rail Vihar, Rail Vihar, Village Bishanpura, At Vip Road, Zirakpur, Tehsil Dera Bassi, Distt. Mohali, Derabassi, Sas Nagar, 140603

Page 1

All the term and conditions same as mentioned in the original consent no. CTOA/Renewal/SAS/2020/13678339 dated 16/12/2020, valid upto 31/03/2021 issued to the project proponent. This extension letter may be appended with the original consent letter issued to the project proponent and subsequent extensions letters with an additional condition as under:

1. The project proponent shall comply with the conditions of the environmental clearance granted vide no. DECC/SEIAA/2019/311 dated 02.04.2019 by the SEIAA, Punjab, in true letter & spirit.
2. The project proponent shall properly handle and manage the solid waste as per the provisions of the Solid Waste Management Rules 2016. The project proponent shall provide mechanical composter of capacity 535 kg/ day for composting of bio-degradable waste within one month.
3. The project proponent shall regularly operate & maintain its sewage treatment plant (STP) and the treated effluent shall be utilized for flushing purpose or discharged onto land for plantation / irrigation or into MC sewer conforming to the effluent standards prescribed by the Board for such discharges. Further, the promoter company shall maintain proper record regarding the operation of its sewage treatment plant (STP) at all times and make it available to the officer of the Board during the conduct of visit, without fail.
4. The project proponent shall ensure that no effluent from plantation area is going into any choe / drain directly or indirectly.
5. The project proponent maintain the record on daily basis of water meter installed on the submersible pump(s) and at the outlet(s) of sewage treatment plants.
6. The project proponent shall install flow measuring devices with supply lines of treated wastewater being reused for flushing purpose & for irrigation purpose and maintain record regarding the same on daily basis.
7. The project proponent shall carry out additional plantation of odour absorbing and fragrant trees/ plants along the STP in the upcoming monsoon season, so as to rule out the effect of odor problem on the nearby residential area.
8. The project proponent shall get the NOC granted by the CGWA updated in congruence to the ground water abstraction limit mentioned in the Environment Clearance granted to it i.e. 245 KLD. Moreover, the project proponent shall explore the possibility of getting Municipal Supply of water from MC, Zirakpur if the supply lines are feasible to be laid in the area.



08/06/2021

(Kuldeep Singh)  
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, SAS Nagar. He shall to monitor the project site as per protocol of the Board and send the report in case of violation under the environmental laws, observed, if any.

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Indian Railway Welfare Organisation (Irwo)/ Rail Vihar, Rail Vihar, Village Bisohanpura, At Vp Road, Zirakpur, Tehsil Dera Bassi, Distt. Mohali, Derabassi, Sas Nagar, 140603

Page 2



08/06/2021

( Kuldeep Singh )  
Environmental Engineer

For & on behalf

of

(Punjab Pollution Control Board)



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*Indian Railway Welfare Organisation (irwo)/ Rail Vihar, Rail Vihar, Village Bishanpura, At Vp Road, Zirakpur, Tehsil Dera Bassi, Distt. Mohali, Derabassi, Sas  
Nagar, 140603*

*Page 3*



OFFICE OF THE  
**MUNICIPAL COUNCIL, ZIRAKPUR**  
 (Distt. S.A.S. Nagar)

ਦਫ਼ਤਰ ਨਗਰ ਕੌਂਸਲ, ਜੀਰਕਪੁਰ (ਜ਼ਿਲ੍ਹਾ ਐਸ.ਏ.ਐਸ.ਨਗਰ)

ਨੰਬਰ...3166.....

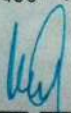
ਮਿਤੀ: 21/9/15

ਵੱਲ,

General Manager (Chandigarh)  
 Northern Railway Construction Office Complex  
 Near Railway Station  
 Chandigarh.  
 (Indian Railway Welfare Organisation)

ਵਿਸ਼ਾ :- ਸੇਲਡ ਵੈਸਟ ਮਟੀਰੀਅਲ ਅਤੇ ਗਾਰਬੇਜ਼ ਚੁੱਕਣ ਬਾਰੇ।

ਉਪਰੋਕਤ ਵਿਸ਼ੇ ਸਬੰਧੀ ਆਪ ਦਾ ਪੱਤਰ ਪ੍ਰਾਪਤ ਹੋਇਆ ਹੈ। ਆਪ ਵੱਲੋਂ ਵੈਸਟ ਮਟੀਰੀਅਲ ਅਤੇ ਗਾਰਬੇਜ਼ ਚੁੱਕਣ ਸਬੰਧੀ ਬੇਨਤੀ ਕੀਤੀ ਗਈ ਹੈ। ਇਸ ਸਬੰਧੀ ਆਪ ਨੂੰ ਲਿਖਿਆ ਜਾਂਦਾ ਹੈ ਕਿ ਨਗਰ ਕੌਂਸਲ, ਜੀਰਕਪੁਰ ਵੈਸਟ ਮਟੀਰੀਅਲ ਅਤੇ ਗਾਰਬੇਜ਼ ਚੁੱਕਣ ਅਤੇ ਸੁੱਟਣ ਦਾ ਪ੍ਰਬੰਧ ਕਰੇਗੀ ਅਤੇ ਇਸ ਸਬੰਧੀ ਆਉਣ ਵਾਲਾ ਖਰਚਾ ਆਪ ਵੱਲੋਂ ਅਦਾ ਕੀਤਾ ਜਾਵੇਗਾ।

  
 ਕਾਰਜ ਸਾਧਕ ਅਫਸਰ,  
 ਨਗਰ ਕੌਂਸਲ, ਜੀਰਕਪੁਰ।

OFFICE OF THE  
**MUNICIPAL COUNCIL, ZIRAKPUR**

(Distt. S.A.S. Nagar)

ਦਫਤਰ ਨਗਰ ਕੌਂਸਲ, ਜੀਰਕਪੁਰ (ਜਿਲ੍ਹਾ ਐਸ ਏ ਐਸ ਨਗਰ)

ems  
2021-01-12 15:48:49  
Annexure  
3

ਨੰਬਰ 3756

ਮਿਤੀ 18-02-2020

ਵੱਲ,

ਮੈਸ: ਇੰਡੀਅਨ ਰੇਲਵੇ ਵੈਲਫੇਅਰ ਔਰਗਨਾਇਜ਼ੇਸ਼ਨ (IRWO)  
ਪ੍ਰੋਜੈਕਟ ਨੋਮ :- ਰੇਲ ਵਿਹਾਰ,  
ਵੀ.ਆਈ.ਪੀ. ਰੋਡ, ਜੀਰਕਪੁਰ।

ਵਿਸ਼ਾ - ਰੇਲ ਵਿਹਾਰ, ਵੀ.ਆਈ.ਪੀ. ਰੋਡ ਦੇ ਰਿਹਾਇਸ਼ੀ ਗਰੁੱਪ ਹਾਊਸਿੰਗ ਪ੍ਰੋਜੈਕਟ ਲਈ ਕੰਪਲੀਸ਼ਨ/ਆਕੂਪੇਸ਼ਨ ਸਰਟੀਫਿਕੇਟ ਜਾਰੀ ਕਰਨ ਸਬੰਧੀ।

ਉਪਰੋਕਤ ਵਿਸ਼ੇ ਦੇ ਸੰਬੰਧ ਵਿੱਚ ਆਪ ਵੱਲੋਂ ਬਿਲਡਿੰਗ ਕੰਪਲੀਟ ਹੋਣ ਉਪਰਾਂਤ ਇਸ ਦਫਤਰ ਵਿਖੇ ਆਪ ਵੱਲੋਂ ਇੱਤੀ ਗਈ ਪੁੱਜੀ ਬੇਨਤੀ ਨੂੰ ਮੰਨਦੇ ਹੋਏ, ਆਪ ਦੇ ਰਿਹਾਇਸ਼ੀ ਗਰੁੱਪ ਹਾਊਸਿੰਗ ਪ੍ਰੋਜੈਕਟ ਦੇ 443 ਫਲੈਟਾਂ ਨੂੰ ਕੰਪਲੀਸ਼ਨ/ਆਕੂਪੇਸ਼ਨ ਸਰਟੀਫਿਕੇਟ ਨਿਮਨਲਿਖਤ ਸ਼ਰਤਾਂ ਤੇ ਜਾਰੀ ਕੀਤਾ ਜਾਂਦਾ ਹੈ :-

- 1 ਕਿ ਕੰਪਨੀ ਫਾਇਰ ਸੇਫਟੀ ਅਤੇ ਵਾਤਾਵਰਣ ਕਲੀਰੈਂਸ ਦੇ ਪ੍ਰਬੰਧਾਂ ਨੂੰ ਭਵਿੱਖ ਵਿੱਚ ਚਾਲੂ ਰੱਖਣ ਅਤੇ ਮੇਨਟੇਨ ਕਰਨ ਦੇ ਪਾਬੰਦ ਹੋਵੇਗੀ, ਅਤੇ ਫਾਇਰ ਸੇਫਟੀ ਸਰਟੀਫਿਕੇਟ ਹਰ ਸਾਲ ਰਨਿਊ ਕਰਵਾ ਕੇ ਦੇਣਾ ਆਪ ਦੀ ਨਿੱਜੀ ਜਿੰਮੇਵਾਰੀ ਹੋਵੇਗੀ।
- 2 ਸਰਕਾਰ ਦੀਆਂ ਹਦਾਇਤਾਂ ਅਨੁਸਾਰ ਜਿਸ ਵੀ ਵਿਭਾਗ ਦੀ ਐਨ.ਊ.ਸੀ. ਲੋੜੀਂਦੀ ਹੈ ਉਸ ਨੂੰ ਲੈਣ ਦੇ ਪਾਬੰਦ ਹੋਵੇਗੀ ਅਤੇ ਸਰਕਾਰ ਵੱਲੋਂ ਸਮੇਂ-ਸਮੇਂ ਸਿਰ ਜਾਰੀ ਹਦਾਇਤਾਂ ਦੀ ਪਾਲਣਾ ਕਰਨੀ ਜ਼ਰੂਰੀ ਹੋਵੇਗੀ।
- 3 ਇਸ ਬਿਲਡਿੰਗ ਵਿੱਚ ਕਿਸੇ ਵੀ ਤਰ੍ਹਾਂ ਦੀ ਅਡੀਸਨ ਅਲਟਰੈਸੋਨ ਦੀ ਪੂਰਵ ਪ੍ਰਵਾਨਗੀ ਲੈਣ ਦੇ ਪਾਬੰਦ ਹੋਵੇਗੀ।
- 4 The Person with disability equal opportunities protection of right & full participation Act, 1955 ਅਤੇ ਰੈਨ ਹਾਰਵੈਸਟਿੰਗ ਸਿਸਟਮ ਅਤੇ ਐਸ.ਟੀ.ਪੀ. ਦਾ ਪ੍ਰਬੰਧ ਹਮੇਸ਼ਾ ਚਾਲੂ ਹਾਲਤ ਵਿੱਚ ਰੱਖਣਾ ਆਪ ਦੀ ਨਿੱਜੀ ਜਿੰਮੇਵਾਰੀ ਹੋਵੇਗੀ।
- 5 ਸਰਕਾਰ ਦੀਆਂ ਹਦਾਇਤਾਂ ਅਨੁਸਾਰ ਪਾਰਕਿੰਗ ਸਬੰਧੀ ਹਦਾਇਤਾਂ ਅਤੇ ਸਰਕਾਰ ਵੱਲੋਂ ਸਮੇਂ-ਸਮੇਂ ਸਿਰ ਜਾਰੀ ਹਦਾਇਤਾਂ ਅਨੁਸਾਰ ਨਿਯਮਾਂ ਦੀ ਪਾਲਣਾ ਕਰਨੀ ਆਪ ਦੀ ਜਿੰਮੇਵਾਰੀ ਹੋਵੇਗੀ।
- 6 ਗਰੁੱਪ ਹਾਊਸਿੰਗ ਪ੍ਰੋਜੈਕਟ ਨੂੰ ਹੋਡਉਵਰ ਕਰਨ ਤੋਂ ਪਹਿਲਾਂ ਪ੍ਰੋਜੈਕਟ ਸਬੰਧੀ ਮੈਨਟੀਨੈਂਸ ਅਤੇ ਲਿਫਟਾਂ, ਟਿਊਬਵੈਲ, ਐਸ.ਟੀ.ਪੀ., ਫਾਇਰ ਫਾਇਟਿੰਗ ਸਿਸਟਮ ਚਾਲੂ/ਸਹੀ ਹਾਲਤ ਵਿੱਚ ਦੇਣਾ ਆਪ ਦੀ ਨਿੱਜੀ ਜਿੰਮੇਵਾਰੀ ਹੋਵੇਗੀ।
- 7 ਕਿਸੇ ਵੀ ਸਮੇਂ ਜੇਕਰ ਆਪ ਦੇ ਪ੍ਰੋਜੈਕਟ ਸੰਬੰਧੀ ਕੋਈ ਬਕਾਇਆ ਆਦਿ ਨਿਕਲਦਾ ਹੋਇਆ ਤਾਂ ਆਪ ਉਸ ਨੂੰ ਨਗਰ ਕੌਂਸਲ ਦੇ ਖਾਤੇ ਵਿੱਚ ਜਮ੍ਹਾਂ ਕਰਵਾਉਣ ਦੇ ਪਾਬੰਦ ਹੋਵੇਗੀ।
- 8 ਆਪ ਆਪਣੇ ਪ੍ਰੋਜੈਕਟ ਲਈ ਰੋਰਾ ਦੀਆਂ ਨਿਯਮਾਂ/ਰੂਲਾਂ/ਹਦਾਇਤਾਂ ਅਤੇ ਬਿਲਡਰ ਲਾਇਸੈਂਸ/ਕਲੈਨੀ ਲਾਇਸੈਂਸ ਦੀਆਂ ਹਦਾਇਤਾਂ ਦੀ ਪਾਲਣਾ ਕਰਨੀ ਆਪ ਦੀ ਨਿੱਜੀ ਜਿੰਮੇਵਾਰੀ ਹੋਵੇਗੀ।
- 9 ਸਰਕਾਰ ਦੀ ਈ.ਡਬਲਿਊ.ਐਸ. ਫਲੈਟਾਂ ਦੀ ਡਿਸਪੋਜਲ ਸਬੰਧੀ ਕੰਪਨੀ ਵੱਲੋਂ ਪਹਿਲਾਂ ਹੀ ਲਿਖ ਕੇ ਦਿੱਤਾ ਗਿਆ ਹੈ ਕਿ ਉਹ ਈ.ਡਬਲਿਊ.ਐਸ. ਫਲੈਟਾਂ ਦੀ ਪਾਲਸੀ ਨੋਟੀਫਿਕੇਸ਼ਨ ਨੰ: DIP(LG)-2016/2361 ਮਿਤੀ The 24 October, 2016 ਦੀ ਔਪਸ਼ਨ ਨੰ: 1 ਦੇ ਪੈਰਾ ਨੰ: 2.1 ਦੀ ਇੰਨ-ਬਿੰਨ ਪਾਲਣਾ ਕਰਨ ਦੇ ਪਾਬੰਦ ਹੋਣਗੇ।

ਉਪਰੋਕਤ ਅਨੁਸਾਰ ਪਾਲਣਾ ਨਾ ਕਰਨ ਦੀ ਸੂਰਤ ਵਿੱਚ ਆਪ ਦਾ ਕੰਪਲੀਸ਼ਨ/ਆਕੂਪੇਸ਼ਨ ਸਰਟੀਫਿਕੇਟ ਰੱਦ ਕਰ ਦਿੱਤਾ ਜਾਵੇਗਾ।

ਕਾਰਜਕਾਰੀ ਅਫਸਰ,  
ਨਗਰ ਕੌਂਸਲ ਜੀਰਕਪੁਰ।



**PHOTOGRAPHS OF THE PROJECT**





**Parking Area**



**First Aid  
Kit**





Green Area & Plantation



Sewage Treatment Plant



Fire Fighting Equipment



DG Set



**भारतीय रेल कल्याण संगठन**  
**INDIAN RAILWAY WELFARE ORGANISATION**

To WHOMSOEVER IT MAY CONCERN

**UNDERTAKING**

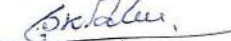
It is certified that Indian Railway Welfare Organization (IRWO) has constructed 'RAIL VIHAR' Group Housing Project at VIP Road, Zirakpur, District - Mohali, Punjab consisting of 443 Dwelling Units including subsidized (EWS) 44 Dwelling Units for Common Public under EWS category.

The details of cost under EMP is given below.

Sr No.	Particulars	Annual Recurring Cost (INR Lakh/year)
1	Rain Water Harvesting & Solid Waste Management	44.86
2	Green Area Development	18.58
3	Diesel Generator (DG) Sets (2x320 KVA)	43.43
4	Sewerage Treatment Plant of 300 KLD (2x150 KLD)	26.22
5	Piezometer/ Digital Water Level Recorder	5.83
	<b>TOTAL</b>	<b>138.92</b>

Date: 05-02-2019

**For Indian Railway Welfare Organization**

  
(S K Patni)

Additional General Manager Finance

S. K. PATNI  
Addl. General Manager (F)  
Indian Railway Welfare Organisation  
New Delhi-110001




**CENTRE FOR INDUSTRIAL TESTING AND RESEARCH ORGANIZATION**

Registered with Ministry of MSME, Govt. of India

(An ISO: 9001:2015 Certified Company)

GST No. 03AANFC5010D1Z5


**TEST REPORT**

Page 01 of 01

Format No. : CITRO/QSF/0716

<b>ISSUED TO:</b> M/s Indian Railway Welfare Organization Rail Vihar, Zirakpur (Punjab) (140507)	<b>Report No.</b>	CITRO/QC/020322/012 (1)
	<b>Issue date</b>	14.03.2022
	<b>NABL ULR No.</b>	TC89532000000811F
	<b>Reg. No. &amp; Date</b>	22-03-06 & 02.03.2022
	<b>Customer Ref. &amp; Date</b>	NA
Sample Receipt Date: 02.03.2022	Analysis Start Date: 02.03.2022	Analysis Completion Date: 14.03.2022

**A. Particulars of the Sample: (Supplied by Customer)**

<b>Name of Sample</b>	Ambient Air Quality	<b>Testing as Per</b>	NAAQS 2009
<b>Discipline</b>	Chemical	<b>Group</b>	Atmospheric Pollution

**General Information:**

1. Location of Sampling Point : Near Main Gate
2. Date of Monitoring : 01.03.2022
3. Purpose of Monitoring : For Environment Monitoring Purpose.
4. Duration of Monitoring, minutes : 1440
5. Avg. Flow Rate of Sampling, m<sup>3</sup>/min. : 1.17
6. Volume of air sampled, m<sup>3</sup> : 1651.54
7. Avg. Ambient Temperature, °C : 23

**B. Test Results:**

Sr. No.	Test Parameters	Test Method	Requirements (NAAQS 2009)	Test Result
1	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	IS 5182 (P-2)	80 Max.	28
2	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	Emission Regulation-III (Modified Jacob & Hochheiser Method)	80 Max.	25
3	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	IS 5182 (P- 23 )	100 Max.	89
4	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	CITRO/QC/STP/022	60 Max.	53
5	Ozone (O <sub>3</sub> ), µg/m <sup>3</sup>	IS 5182 (P- 9 )	180 Max.	BLQ(LOQ:14.0)
6	Ammonia (NH <sub>3</sub> ), µg/m <sup>3</sup>	IS 5182 (P- 25)	400 Max.	BLO (LOQ:5.0)

**C. Supplementary Information:**

1.	Reference to Sampling Procedure	CITRO/QC/SOP/026
2.	Supporting Documents for the Measurements Taken and Results Derived Like: Graphs/Tables/Sketches/Photographs as Appropriate to the Test Report (if any)	NA
3.	Addition to, Deviations, or Exclusions from the Relevant Test Method/Work Instructions (if any)	NA

**D. Remarks:** NA - Not Applicable, NAAQS: National Ambient Air Quality Standard, BLQ: Below limit of Quantification, LOQ: Limit of Quantification

 N Pathania  
 14-03-2022  
 Nanty Pathania

 Gaurav Goyal  
 14-03-2022  
 Gaurav Goyal  
 Technical Head  
 (Authorized Signatory)

(Reviewed By)

**Disclaimer:** 1. Test results are related only to the items/sample tested, total liability of the lab is limited to invoiced amount only.  
 2. Test report in full or parts shall not be used for promotional or publicity purpose  
 3. Sample stored after analysis as per Quality System Procedure.

**Address :** Village-Jawaharpur, opposite to Ind Swift Factory,  
 Derabassi, Distt-SAS Nagar, Punjab-140507

**Email :** info@citrolab.com

**Contact us:** +91-8528969439, +91-9560228522

**Website :** www.citrolab.com






# CENTRE FOR INDUSTRIAL TESTING AND RESEARCH ORGANIZATION

Registered with Ministry of MSME, Govt. of India

(An ISO: 9001:2015 Certified Company)

GST No. 03AANFC5010D1Z5



TEST REPORT Page 01 of 01

Format No. : CITRO/QSF/0716

<b>ISSUED TO:</b> M/s Indian Railway Welfare Organization Rail Vihar, Zirakpur (Punjab) (140507)	Report No.	CITRO/QC/020322/012(2)
	Issue date	14.03.2022
	Reg. No. & Date	22-03-06 & 02.03.2022
	Customer Ref. & Date	NA
Sample Receipt Date: 02.03.2022	Analysis Start Date: 02.03.2022	Analysis Completion Date: 14.03.2022

### A. Particulars of the Sample: (Supplied by Customer)

Name of Sample	Ambient Air Quality	Testing as Per	NAAQS 2009
Discipline	Chemical	Group	Atmospheric Pollution

### General Information:

1. Location of Sampling Point : Near Main Gate
2. Date of Monitoring : 01.03.2022
3. Purpose of Monitoring : For Environment Monitoring Purpose.
4. Duration of Monitoring, minutes : 1440
5. Avg. Flow Rate of Sampling, m<sup>3</sup>/min. : 1.17
6. Volume of air sampled, m<sup>3</sup> : 1651.54
7. Avg. Ambient Temperature, °C : 23

### B. Test Results:

Sr. No.	Test Parameters	Test Method	Requirements (NAAQS 2009)	Test Result
1	Carbon Monoxide (CO), mg/m <sup>3</sup>	CITRO/QC/STP/028	4 Max.	2.2

### C. Supplementary Information:

1.	Reference to Sampling Procedure	CITRO/QC/SOP/026
2.	Supporting Documents for the Measurements Taken and Results Derived Like: Graphs/Tables/Sketches/Photographs as Appropriate to the Test Report (if any)	NA
3.	Addition to, Deviations, or Exclusions from the Relevant Test Method/Work Instructions (if any)	NA

D. Remarks: NA: - Not Applicable, NAAQS: National Ambient Air Quality Standard

Nathana  
14-03-2022  
Narby Pathania

(Reviewed By)



Gaura  
14-03-2022  
Gaura Goyal  
Technical Head  
(Authorized Signatory)

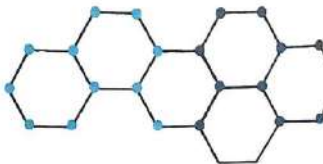
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GST No. 03AANFC5010D1Z5



TEST REPORT Page 01 of 01  
Format No. : CITRO/QSF/0716

<b>ISSUED TO:</b> M/s Indian Railway Welfare Organization Rail Vihar, Zirakpur (Punjab) (140507)	<b>Report No.</b>	CITRO/QC/020322/013
	<b>Issue date</b>	10.03.2022
	<b>NABL ULR No.</b>	TC895320000000812F
	<b>Reg. No. &amp; Date</b>	22-03-06 & 02.03.2022
	<b>Customer Ref. &amp; Date</b>	NA
Sample Receipt Date: 02.03.2022	Analysis Start Date: 02.03.2022	Analysis Completion Date: 10.03.2022

### A. Particulars of the Sample: (Supplied by Customer)

<b>Name of Sample</b>	Ambient Noise	<b>Testing as Per</b>	EPA-1986, PCLS/02/2021
<b>Discipline</b>	Chemical	<b>Group</b>	Atmospheric Pollution

### General Information:

- 1. Location of Monitoring** : Near Main Gate
- 2. Date of Monitoring** : 02.03.2022
- 3. Time of Monitoring** : 13:20 hrs
- 4. Purpose of Monitoring** : For Environment Monitoring Purpose.

### B. Test Results:

Sr. No.	Location Name	Test Method	Requirement	Test Results, Leq dB (A)
1	Near Main Gate, Leq dB(A)	CPCB Guidelines	75.0 Max.	54.2

### C. Supplementary Information:

1. Reference to Sampling Procedure	CITRO/QC/SOP/026
2. Supporting Documents for the Measurements Taken and Results Derived Like: Graphs/Tables/Sketches/Photographs as Appropriate to the Test Report (if any)	NA
3. Addition to, Deviations, or Exclusions from the Relevant Test Method/Work Instructions (if any)	NA

D. Remarks: NA:- Not Applicable



*Nathans*  
10-03-2022  
Nancy Pathania

(Reviewed By)

*Goyal*  
10-03-2022  
Gaurav Goyal  
Technical Head  
(Authorized Signatory)

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GST No. 03AANFC5010D1Z5



TEST REPORT

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Format No. : CITRO/QSF/0716

<b>ISSUED TO:</b> M/s Indian Railway Welfare Organization Rail Vihar, Zirakpur (Punjab) (140507)		<b>Report No.</b>	CITRO/QC/020322/014(1)
		<b>Issue date</b>	14.03.2022
		<b>NABL ULR No.</b>	TC895320000000813F
		<b>Reg. No. &amp; Date</b>	22-03-06 & 02.03.2022
		<b>Customer Ref. &amp; Date</b>	NA
<b>Sample Receipt Date:</b>	02.03.2022	<b>Analysis Start Date</b>	02.03.2022
		<b>Analysis Completion Date</b>	14.03.2022

### A. Particulars of the Sample: (Supplied by Customer)

<b>Name of Sample</b>	Ground Water	<b>Testing as Per</b>	IS: 10500-2012, R.A.2018
<b>Location</b>	NA	<b>Declared Values (If any)</b>	NA
<b>Sample Code No.</b>	NA	<b>Batch No. &amp; D.O.M.</b>	NA
<b>Date of sampling</b>	NA	<b>Time of sampling</b>	NA
<b>Sample Quantity</b>	2 ltr.	<b>Mode of Packing</b>	Packed in Plastic Can
<b>Discipline</b>	Chemical	<b>Group</b>	Water
<b>Seal</b>	NA	<b>IO's Signature</b>	NA
<b>Any Other Information</b>	Sample Collected by Lab . rep. on dated 02.03.2022		

### B. Supplementary Information:

1.	Reference to Sampling Procedure	CITRO/QC/SOP/025
2.	Supporting Documents for the Measurements Taken and Results Derived Like: Graphs/Tables/Sketches/Photographs as Appropriate to the Test Report (if any)	NA
3.	Addition to, Deviations, or Exclusions from the Relevant Test Method/Work Instructions (if any)	NA

### C. Test Results:

S. No.	Test Parameters	Test Method	Requirement (IS: 10500-2012)	Permissible Limit in Absence of Alternate Source (IS:10500-2012)	Test Result
1	Colour, (Hazen units)	IS: 3025 (P-4)	5 max.	15 max.	<5
2	Odour	IS: 3025 (P-5)	Agreeable	Agreeable	Agreeable
3	pH value	IS: 3025 (P-11)	6.5 to 8.5	No relaxation	7.41
4	Turbidity (NTU)	IS: 3025 (P-10)	1 max.	5max.	<1.0
5	Chloride as Cl (mg/l)	IS: 3025 (P-32)	250 max.	1000 max.	16
6	Iron as Fe (mg/l)	IS: 3025 (P-53)	1.0 max.	No relaxation	0.2
7	Total Hardness as CaCO <sub>3</sub> (mg/l)	IS: 3025 (P-19)	200 max.	600 max.	147

D. Remarks: NA:- Not Applicable

*Nancy Pathania*  
Nancy Pathania  
14-03-2022



*Gaurav Goyal*  
Gaurav Goyal  
14-03-2022  
Gaurav Goyal  
Technical Head  
(Authorized Signatory)

(Reviewed By)

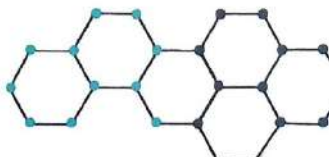
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<b>ISSUED TO:</b> M/s Indian Railway Welfare Organization Rail Vihar, Zirakpur (Punjab) (140507)	<b>Report No.</b>	CITRO/QC/020322/014(2)
	<b>Issue date</b>	14.03.2022
	<b>Reg. No. &amp; Date</b>	22-03-06 & 02.03.2022
	<b>Customer Ref. &amp; Date</b>	NA
Sample Receipt Date: 02.03.2022   Analysis Start Date: 02.03.2022   Analysis Completion Date: 14.03.2022		

**A. Particulars of the Sample: (Supplied by Customer)**

<b>Name of Sample</b>	Ground Water	<b>Testing as Per</b>	IS: 10500-2012, R.A:2018
<b>Location</b>	NA	<b>Declared Values (If any)</b>	NA
<b>Sample Code No.</b>	NA	<b>Batch No. &amp; D.O.M.</b>	NA
<b>Date of sampling</b>	NA	<b>Time of sampling</b>	NA
<b>Sample Quantity</b>	2 ltr.	<b>Mode of Packing</b>	Packed in Plastic Can
<b>Discipline</b>	Chemical	<b>Group</b>	Water
<b>Seal</b>	NA	<b>IO's Signature</b>	NA
<b>Any Other Information</b>	Sample Collected by Lab. rep. on dated 02.03.2022		

**B. Supplementary Information:**

1. Reference to Sampling Procedure	NA
2. Supporting Documents for the Measurements Taken and Results Derived Like: Graphs/Tables/Sketches/Photographs as Appropriate to the Test Report (if any)	NA
3. Addition to, Deviations, or Exclusions from the Relevant Test Method/Work Instructions (if any)	NA

**C. Test Results:**

S. No.	Parameters	Method	Requirement (IS: 10500-2012)	Result
<b>Table 6 Microbiological Test (Clause 4)</b>				
1	E.Coli / 100ml	By Test KIT	Shall not be detectable in any 100ml sample	Absent
2	Total Coliform Bacteria/ 100ml	By Test KIT	Shall not be detectable in any 100ml sample	Absent

**D. Remarks :** NA: Not Applicable

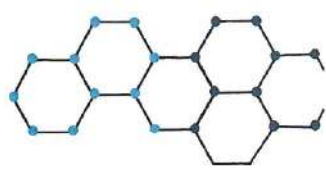
*Nancy Pathania*  
 Nancy Pathania  
 (Reviewed By)



Gaurav Goyal  
 Technical Head  
 (Authorized Signatory)

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GST No. 03AANFC5010D1Z5



## TEST REPORT

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Format No. : CITRO/QSF/0716

<b>ISSUED TO:</b> M/s Indian Railway Welfare Organization Rail Vihar, Zirakpur (Punjab) (140507)	<b>Report No.</b>	CITRO/QC/020322/015(1)
	<b>Issue date</b>	10.03.2022
	<b>NABL ULR No.</b>	TC89532000000814P
	<b>Reg. No. &amp; Date</b>	22-03-06 & 02.03.2022
	<b>Customer Ref. &amp; Date</b>	NA
<b>Sample Receipt Date:</b> 02.03.2022	<b>Analysis Start Date:</b> 02.03.2022	<b>Analysis Completion Date:</b> 10.03.2022

### A. Particulars of the Sample: (Supplied by Customer)

<b>Name of Sample</b>	Stack DG Set -1 (320 kVA)	<b>Testing as Per</b>	EPA -1986, PCLS/02/2021
<b>Discipline</b>	Chemical	<b>Group</b>	Atmospheric Pollution

#### General Information

- Name of Emission Source monitored** : Stack Emission of DG Set
- a. Rated Capacity** : 320 kVA
- b. Capacity on Sampling day** : 81%
- c. Type of Fuel used & its Consumption** : HSD & 20 liter per hour
- d. Normal operating Schedule** : As Required
- 2. Stack Identification** : Stack attached to DG Set-1 (320 kVA)
- 3. Type of Stack/Duct (RCC/Metal)** : Metal
- 4. Stack Height from ground Level (m)** : 7
- 5. Diameter of the Stack (cm)** : 7.6
- 6. Sampling Duration (minutes)** : 56
- 7. Purpose of Monitoring** : For Environment Monitoring Purpose.
- 8. Air pollution Control Measure** : Not Exist
- a. Status** :-
- b. Recovery of Material** :-
- 9. Fugitive Emission, if any** : Nil

#### Observations:

- 1. Flue Gas Temperature, °C, Avg.** : 92
- 2. Flue Gas Velocity(m/s), Avg.** : 5.16
- 3. Volumetric Flow Rate (Nm<sup>3</sup>/hr)** : 66.95
- 4. Ambient Air Temperature, °C** : 22

#### B. Test Results:

Sr. No.	Test Parameter	Test Method	Requirements	Test Results
1	Particulate Matter (PM), g/kw-hr	IS: 11255 (P-1)	0.2 max.	0.08
2	Oxide of Nitrogen (NO <sub>2</sub> ), g/kw-hr + *Hydrocarbon as (CH <sub>4</sub> ), g/kw-hr	IS: 11255 (P-7) & IS 13270	4.0 max.	1.4
3	Sulphur Dioxide (SO <sub>2</sub> ), mg/Nm <sup>3</sup>	IS: 11255 (P-2)	Not Specified	15

C. Remarks: NA - Not Applicable, Requirements as per EPA 1986 PCLS/02/2021, Sampling Procedure - CITRO/QC/SOP/026. Date of Monitoring: 02-03-2022, \*Tested & sourced.

Narkey Pathania  
19-03-2022

(Reviewed By)



Gaurav Royyal  
Technical Head  
(Authorized Signatory)

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## TEST REPORT

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Format No. : CITRO/QSF/0716

ISSUED TO: M/s Indian Railway Welfare Organization Rail Vihar, Zirakpur (Punjab) (140507)	Report No.	CITRO/QC/020322/015(2)			
	Issue date	10.03.2022			
	Reg. No. & Date	22-03-06 & 02.03.2022			
	Customer Ref. & Date	NA			
Sample Receipt Date:	02.03.2022	Analysis Start Date	02.03.2022	Analysis Completion Date	10.03.2022

### A. Particulars of the Sample: (Supplied by Customer)

Name of Sample	Stack DG Set-1 (320 kVA)	Testing as Per	EPA -1986, PCLS/02/2021
Discipline	Chemical	Group	Atmospheric Pollution

#### General Information

1. Name of Emission Source monitored : Stack Emission of DG Set
- a. Rated Capacity : 320 kVA
- b. Capacity on Sampling day : 81%
- c. Type of Fuel used & its Consumption : HSD & 20 liter per hour
- d. Normal operating Schedule : As Required
2. Stack Identification : Stack attached to DG Set-1 (320 kVA)
3. Type of Stack/Duct (RCC/Metal) : Metal
4. Stack Height from ground Level (m) : 7
5. Diameter of the Stack (cm) : 7.6
6. Sampling Duration (minutes) : 56
7. Purpose of Monitoring : For Environment Monitoring Purpose.
8. Air pollution Control Measure : Not Exist
- a. Status : -
- b. Recovery of Material : -
9. Fugitive Emission, if any : Nil

#### Observations:

1. Flue Gas Temperature, °C, Avg. : 92
2. Flue Gas Velocity(m/s), Avg. : 5.16
3. Volumetric Flow Rate (Nm<sup>3</sup>/hr) : 66.95
4. Ambient Air Temperature, °C : 22

#### B. \*Test Results:

Sr. No.	Test Parameter	Test Method	Requirements	Test Results
1	Carbon Monoxide as (CO), g/kw-hr	IS 12270	Max. 3.5	1.5

C. Remarks: NA - Not Applicable, Requirements as per EPA 1986 PCLS/02/2021, Sampling Procedure - CITRO/QC/SOP/026. Date of Monitoring : 02-03-2022, \*Tested Out sourced.

Natthani-03-2022  
Narky Pathania

(Reviewed By)



Gaurav Goyal  
Technical Head  
(Authorized Signatory)

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TEST REPORT Page 01 of 01

Format No. : CITRO/QSF/0716

ISSUED TO: M/s Indian Railway Welfare Organization Rail Vihar, Zirakpur (Punjab) (140507)	Report No.	CITRO/QC/020322/016
	Issue date	10.03.2022
	NABL ULR No.	TC89532000000815F
	Reg. No. & Date	22-03-06 & 02.03.2022
	Customer Ref. & Date	NA
Sample Receipt Date: 02.03.2022	Analysis Start Date: 02.03.2022	Analysis Completion Date: 10.03.2022

### A. Particulars of the Sample: (Supplied by Customer)

Name of Sample	Noise DG Set-1 (320 kVA) Monitoring	Testing as Per	EPA -1986, PCLS/02/2021
Discipline	Chemical	Group	Atmospheric Pollution

### General Information

1. Date of Monitoring : 02.03.2022
2. Time of Monitoring : 14:20 hrs
3. Purpose of Monitoring : For Environment Monitoring Purpose.
4. Source of Noise Pollution Monitored : DG Noise Set-1 (320 kVA)
  - a. Engine Sr. No. :DV8.81017152005
  - b. Make :Kirloskar
  - c. Date of mfg. of DG set :14.01.2015
  - d. Date of Installation : 2015
  - e. Type approval no. : Not Provided by Party
6. Pollution Control Device (if any) : Acoustic Enclosure
7. Stack Height from Ground level to top, m : 7
8. Stack Height above roof level, m : Not Applicable
9. Location of Noise Generating Source :Ground Floor  
(Top Floor, Ground Floor)

### B. Test Results:

Sr. No.	Test Parameter	Test Method	Requirement (EPA -1986, PCLS/02/2021)	Test Results
1	1 meter away from Acoustic Enclosure, Leq dB(A)	CPCB Guidelines	Max.75.0	74.1

### C. Supplementary Information:

1. Reference to Sampling Procedure	CITRO/QC/SOP/026
2. Supporting Documents for the Measurements Taken and Results Derived Like: Graphs/Tables/Sketches/Photographs as Appropriate to the Test Report (if any)	NA
3. Addition to, Deviations, or Exclusions from the Relevant Test Method Instructions (if any)	NA

D. Remarks: NA- Not Applicable, Requirements as per EPA-1986, PCLS/02/2021, Sampling Procedure - CITRO/QC/SOP/026.

Date of Monitoring: 02-03-2022

*Nathana*  
10-03-2022  
Nanky Pathania

(Reviewed By)



*Gaunav*  
10-03-2022  
Gaunav Goyal  
Technical Head  
(Authorized Signatory)

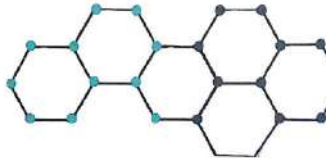
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GST No. 03AANFC5010D1Z5



TEST REPORT Page 01 of 01  
Format No. : CITRO/QSF/0716

ISSUED TO: M/s Indian Railway Welfare Organization Rail Vihar, Zirakpur (Punjab) (140507)	Report No.	CITRO/QC/020322/017(1)			
	Issue date	14.03.2022			
	NABL ULR No.	TC895320000000816P			
	Reg. No. & Date	22-03-06 & 02.03.2022			
	Customer Ref. & Date	NA			
Sample Receipt Date:	02.03.2022	Analysis Start Date	02.03.2022	Analysis Completion Date	14.03.2022

### A. Particulars of the Sample: (Supplied by Customer)

Name of Sample	Stack DG Set -2 (320 kVA)	Testing as Per	EPA -1986, PCLS/02/2021
Discipline	Chemical	Group	Atmospheric Pollution

#### General Information

1. Name of Emission Source monitored : Stack Emission of DG Set
- a. Rated Capacity : 320 kVA
- b. Capacity on Sampling day : 86%
- c. Type of Fuel used & its Consumption : HSD & 22 liter per hour
- d. Normal operating Schedule : As Required
2. Stack Identification : Stack attached to DG Set-2 (320 kVA)
3. Type of Stack/Duct (RCC/Metal) : Metal
4. Stack Height from ground Level (m) : 7
5. Diameter of the Stack (cm) : 7.6
6. Sampling Duration (minutes) : 57
7. Purpose of Monitoring : For Environment Monitoring Purpose.
8. Air pollution Control Measure : Not Exist
- a. Status :-
- c. Recovery of Material :-
9. Fugitive Emission, if any : Nil

#### Observations:

1. Flue Gas Temperature, °C, Avg. : 93
2. Flue Gas Velocity(m/s), Avg. : 5.03
3. Volumetric Flow Rate (Nm<sup>3</sup>/hr) : 65.09
4. Ambient Air Temperature, °C : 22

#### B. Test Results:

Sr. No.	Test Parameter	Test Method	Requirements	Test Results
1	Particulate Matter (PM), g/kw-hr	IS: 11255 (P-1)	0.2 max.	0.09
2	Oxide of Nitrogen (NO <sub>2</sub> ), g/kw-hr + *Hydrocarbon as (CH <sub>4</sub> ), g/kw-hr	IS: 11255 (P-7) & IS 13270	4.0 max.	1.4
3	Sulphur Dioxide (SO <sub>2</sub> ), mg/Nm <sup>3</sup>	IS: 11255 (P-2)	Not Specified	18

C. Remarks: NA - Not Applicable, Requirements as per EPA 1986 PCLS/02/2021, Sampling Procedure - CITRO/QC/SOP/026. Date of Monitoring : 02-03-2022, \*Tested On sourced.

Nancy Pathania  
14-03-2022

(Reviewed By)



Gaurav Goyal  
14-03-2022  
Technical Head  
(Authorized Signatory)

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GST No. 03AANFC5010D1Z5



## TEST REPORT

Page 01 of 01

Format No. : CITRO/QSF/0716

<b>ISSUED TO:</b> M/s Indian Railway Welfare Organization Rail Vihar, Zirakpur (Punjab) (140507)		<b>Report No.</b> CITRO/QC/020322/017(2)
		<b>Issue date</b> 14.03.2022
		<b>Reg. No. &amp; Date</b> 22-03-06 & 02.03.2022
		<b>Customer Ref. &amp; Date</b> NA
<b>Sample Receipt Date:</b> 02.03.2022	<b>Analysis Start Date:</b> 02.03.2022	<b>Analysis Completion Date:</b> 14.03.2022

### A. Particulars of the Sample: (Supplied by Customer)

<b>Name of Sample</b>	Stack DG Set (320 kVA)	<b>Testing as Per</b>	EPA -1986, PCLS/02/2021
<b>Discipline</b>	Chemical	<b>Group</b>	Atmospheric Pollution

#### General Information

- Name of Emission Source monitored** : Stack Emission of DG Set
- a. Rated Capacity** : 320 kVA
- b. Capacity on Sampling day** : 86%
- c. Type of Fuel used & its Consumption** : HSD & 22 liter per hour
- d. Normal operating Schedule** : As Required
- Stack Identification** : Stack attached to DG Set-2 (320 kVA)
- Type of Stack/Duct (RCC/Metal)** : Metal
- Stack Height from ground Level (m)** : 7
- Diameter of the Stack (cm)** : 7.6
- Sampling Duration (minutes)** : 57
- Purpose of Monitoring** : For Environment Monitoring Purpose.
- Air pollution Control Measure** : Not Exist
- a. Status** : -
- b. Recovery of Material** : -
- Fugitive Emission, if any** : Nil

#### Observations:

- Flue Gas Temperature, °C, Avg.** : 93
- Flue Gas Velocity(m/s), Avg.** : 5.03
- Volumetric Flow Rate (Nm<sup>3</sup>/hr)** : 65.09
- Ambient Air Temperature, °C** : 22

#### B.\* Test Results:

Sr. No.	Test Parameter	Test Method	Requirements	Test Results
1	Carbon Monoxide as (CO), g/kw-hr	IS: 13270	Max. 3.5	1.3

C. Remarks: NA - Not Applicable, Requirements per EPA 1986 PCLS/02/2021, Sampling Procedure - CITRO/QC/SOP/026. Date of Monitoring : 02-03-2022. \*Test outsourced.

*Naricy Pathania*  
14-03-2022  
Naricy Pathania

(Reviewed By)



*Gaurav Goyal*  
14-03-2022  
Gaurav Goyal  
Technical Head  
(Authorized Signatory)

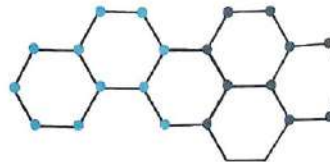
**Disclaimer:** 1. Test results are related only to the items/sample tested, total liability of this lab is limited to invoiced amount only.  
2. Test report in full or parts shall not be used for promotional or publicity purpose.  
3. Sample stored after analysis as per Quality System Procedure.

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**Website** : www.citrolab.com





# CENTRE FOR INDUSTRIAL TESTING AND RESEARCH ORGANIZATION

Registered with Ministry of MSME, Govt. of India  
(An ISO: 9001:2015 Certified Company)  
GST No. 03AANFC5010D1Z5



TEST REPORT Page 01 of 01  
Format No. : CITRO/QSF/0716

ISSUED TO: M/s Indian Railway Welfare Organization Rail Vihar, Zirakpur (Punjab) (140507)	Report No.	CITRO/QC/020322/018
	Issue date	10.03.2022
	NABL ULR No.	TC895320000000817F
	Reg. No. & Date	22-03-06 & 02.03.2022
	Customer Ref. & Date	NA
Sample Receipt Date: 02.03.2022	Analysis Start Date: 02.03.2022	Analysis Completion Date: 10.03.2022

### A. Particulars of the Sample: (Supplied by Customer)

Name of Sample	Noise DG Set-2 (320 kVA) Monitoring	Testing as Per	EPA -1986, PCLS/02/2021
Discipline	Chemical	Group	Atmospheric Pollution

### General Information

1. Date of Monitoring : 02.03.2022
2. Time of Monitoring : 16:20 hrs
3. Purpose of Monitoring : For Environment Monitoring Purpose.
4. Source of Noise Pollution Monitored : DG Noise Set-2 ( 320 kVA)
  - a. Engine Sr. No. :DV8.810171520007
  - b. Make :Kirloskar
  - c. Date of mfg. of DG set :15.01.2015
  - d. Date of Installation :2015
  - e. Type approval no. : Not Provided by Party
6. Pollution Control Device (if any) : Acoustic Enclosure
7. Stack Height from Ground level to top, m : 7
8. Stack Height above roof level , m : Not Applicable
9. Location of Noise Generating Source :Ground Floor  
(Top Floor, Ground Floor)

### B. Test Results:

Sr. No.	Test Parameter	Test Method	Requirement (EPA -1986, PCLS/02/2021)	Test Results
1	1 meter away from Acoustic Enclosure, Leq dB(A)	CPCB Guidelines	Max.75.0	74.6

### C. Supplementary Information:

1.	Reference to Sampling Procedure	CITRO/QC/SOP/026
2.	Supporting Documents for the Measurements Taken and Results Derived Like: Graphs/Tables/Sketches/Photographs as Appropriate to the Test Report (if any)	NA
3.	Addition to, Deviations, or Exclusions from the Relevant Work Instructions (if any)	NA

D. Remarks: NA- Not Applicable, Requirements as per ISO 19869, IS/2021, Sampling Procedure – CITRO/QC/SOP/026  
Date of Monitoring: 02-03-2022

Neha  
Nancy Pathania  
02-03-2022

(Reviewed By)



Gaurav Goyal  
10-03-2022  
Gaurav Goyal  
Technical Head  
(Authorized Signatory)

Disclaimer: 1. Test results are related only to the items/sample tested, total liability of Citro Lab limited to invoiced amount only.  
2. Test report in full or parts shall not be used for promotional or publicity purpose.  
3. Sample stored after analysis as per Quality System Procedure.

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Website : www.citrolab.com





# CENTRE FOR INDUSTRIAL TESTING AND RESEARCH ORGANIZATION

Registered with Ministry of MSME, Govt. of India

(An ISO: 9001:2015 Certified Company)

GST No. 03AANFC5010D1Z5



## TEST REPORT

Page 01 of 01

Format No. : CITRO/QSF/0716

<b>ISSUED TO:</b> M/s Indian Railway Welfare Organization Rail Vihar, Zirakpur (Punjab) (140507)	<b>Report No.</b>	CITRO/QC/020322/019(1)	
	<b>Issue date</b>	14.03.2022	
	<b>NABL ULR No.</b>	TC895320000000818F	
	<b>Reg. No. &amp; Date</b>	22-03-06 & 02.03.2022	
	<b>Customer Ref. &amp; Date</b>	NA	
Sample Receipt Date: 02.03.2022		Analysis Start Date: 02.03.2022	Analysis Completion Date: 14.03.2022

### A. Particulars of the Sample: (Supplied by Customer)

<b>Name of Sample</b>	Soil Sample	<b>Testing as Per</b>	EPA 1986, PCLS/02/2010
<b>Brand Name (If any)/ Location</b>	NA	<b>Declared Values (If any)</b>	NA
<b>Sample Code No.</b>	NA	<b>Batch No. &amp; D.O.M.</b>	NA
<b>Sample Quantity</b>	1Kg Approx	<b>Mode of Packing</b>	Packed in Polythene Bag
<b>Discipline</b>	Chemical	<b>Group</b>	Pollution Environment
<b>Seal</b>	NA	<b>IO's Signature</b>	NA
<b>Any Other Information</b>	Sample collected by lab rep. on dated 02.03.2022, Purpose: For Environment Monitoring Purpose.		

### B. Supplementary Information:

1. Reference to Sampling Procedure	CITRO/QC/SOP/025
2. Supporting Documents for the Measurements Taken and Results Derived Like: Graphs/Tables/Sketches/Photographs as Appropriate to the Test Report (if any)	NA
3. Addition to, Deviations, or Exclusions from the Relevant Test Method/Work Instructions (if any)	NA

### C. Test Results:

S. No.	Test Parameters	Test Method	Test Result
1	pH (1:2.5 Solution)	IS:2720 (Part-26)	7.89
2	Electrical Conductivity (mmhos/Cm)	IS:14767	0.129
3	Organic Matter (% by mass)	IS: 2720 (Part-22) :2015	1.73
4	Moisture (% by mass)	IS: 2720 (Part-22) :2015 Manual Soil Testing in India	11.9

D. Remarks: NA: Not Applicable

*Nancy Pathania*  
14-03-2022  
Nancy Pathania

(Reviewed By)



*Gaurav Goyal*  
14-03-2022  
Gaurav Goyal  
Technical Head  
(Authorized Signatory)

**Disclaimer:** 1. Test results are related only to the items/sample tested, total liability of this lab is limited to invoiced amount only  
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**Website :** www.citrolab.com



**TEST REPORT**

Page 01 of 01

Format No. : CITRO/QSF/0716

ISSUED TO: M/s Indian Railway Welfare Organization Rail Vihar, Zirakpur (Punjab) (140507)	Report No.	CITRO/QC/020322/ 019(2)
	Issue date	14.03.2022
	Reg. No. & Date	22-03-06 & 02.03.2022
	Customer Ref. & Date	NA
Sample Receipt Date: 02.03.2022	Analysis Start Date: 02.03.2022	Analysis Completion Date: 14.03.2022

**A. Particulars of the Sample: (Supplied by Customer)**

Name of Sample	Soil Sample	Testing as Per	EPA 1986, PCLS/02/2010
Brand Name (If any)/ Location	NA	Declared Values (If any)	NA
Sample Code No.	NA	Batch No. & D.O.M.	NA
Sample Quantity	1Kg Approx	Mode of Packing	Packed in Polythene Bag
Discipline	Chemical	Group	Pollution Environment
Seal	NA	IO's Signature	NA
Any Other Information	Sample collected by lab rep. on dated 02.03.2022, Purpose: For Environment Monitoring Purpose.		

**B. Supplementary Information:**

1.	Reference to Sampling Procedure	CITRO/QC/SOP/025
2.	Supporting Documents for the Measurements Taken and Results Derived Like: Graphs/Tables/Sketches/Photographs as Appropriate to the Test Report (if any)	NA
3.	Addition to, Deviations, or Exclusions from the Relevant Test Method/Work Instructions (if any)	NA

**C. Test Results:**

S. No.	Test Parameters	Test Method	Test Result
1	Texture	CITRO/QC/STP/010	Sandy Loam
2	Bulk Density (gm/cc)	IS:2720 (Part-3): 1980 RA 2016	1.69

**D. Remarks:** NA: Not Applicable

*Nathanian*  
14-03-2022  
Nancy Pathania

(Reviewed By)



*Gaurav Goyal*  
14-03-2022  
Gaurav Goyal  
Technical Head  
(Authorized Signatory)

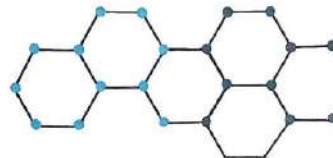
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**Punjab Fire Services**  
(Zirakpur)

**FIRE SAFETY CERTIFICATE**  
ਫਾਇਰ ਸੇਫਟੀ ਪ੍ਰਮਾਣ ਪੱਤਰ



NOC No **1507-41.332-Fire/28966**      NOC Type: **Renew**      Dated **23-Aug-2021**

Certified that the **Rail Vihar Residential Apartment** at **VIP Road Zirakpur Distt SAS Nagar** has been inspected by the fire officer and is found to be complied with fire prevention and fire safety equipments of National Building Code and verified by officer concerned of fire service on **21-Aug-2021** in the presence of **Mr Gurdeep Singh** and is fit to occupancy group **Group-A** subdivision **A-4** (As per NBC) for period of **one year** from issue date.

ISSUED on **23-Aug-2021** at **Zirakpur**

ਤਸਦੀਕ ਕੀਤਾ ਜਾਂਦਾ ਹੈ ਕਿ **Rail Vihar Residential Apartment** ਜੋ ਕਿ **VIP Road Zirakpur Distt SAS Nagar** ਵਿਖੇ ਸਥਾਪਿਤ ਹੈ, ਜਿਸ ਦੀ ਫਾਇਰ ਅਫਸਰ ਵਲੋਂ ਪੜਤਾਲ ਕੀਤੀ ਗਈ ਅਤੇ ਪਾਇਆ ਗਿਆ ਕਿ ਇਸ ਅੱਗ ਬੁਝਾਉਣ ਦੇ ਪ੍ਰਯੋਗ ਅਤੇ ਬਚਾਅ ਦੇ ਰਾਸ਼ਟਰੀ ਬਿਲਡਿੰਗ ਕੋਡ ਅਨੁਸਾਰ ਪੂਰਬ ਕੀਤੇ ਗਏ ਹਨ ਜਿਸ ਨੂੰ ਸਬੰਧਤ ਅੱਗ ਬੁਝਾਉ ਅਧਿਕਾਰੀ ਵੱਲੋਂ ਪ੍ਰਮਾਣਿਤ ਕੀਤਾ ਗਿਆ ਮਿਤੀ **21-Aug-2021** ਮੌਜੂਦਗੀ ਵਿੱਚ **Mr Gurdeep Singh** (ਮਾਲਕ ਦਾ ਨਾਮ ਜਾਂ ਉਸ ਦਾ ਪ੍ਰਤੀਨਿਧੀ) ਇਸ ਨੂੰ ਆਬਾਦੀ ਲਈ ਯੋਗ ਪਾਇਆ ਗਿਆ। Occupancy Group **Group-A** subdivision **A-4** (ਐਨ. ਬੀ. ਸੀ. ਦੇ ਅਨੁਸਾਰ) ਦੇ ਪ੍ਰਯੋਗ ਸਮੇਂ ਤੋਂ **ਇੱਕ ਸਾਲ** ਤੱਕ।

ਜਾਰੀ ਕਰਨ ਦੀ ਮਿਤੀ **23-Aug-2021** ਕਿੱਥੋਂ **Zirakpur** :

This project comprise of **5** towers/blocks with number of floors as given below.

ਇਸ ਪ੍ਰੋਜੈਕਟ ਵਿੱਚ **5** ਟਾਵਰ/ਬਲਾਕ ਹੇਠ ਲਿਖੇ ਅਨੁਸਾਰ ਹਨ:

Block Name	No. Of Floors	Area (sq. mtr.)
Type 4 Block No A1 to A5	8	10205.00
Type 3 Block No B1 to B14	8	24615.00
Type 2 Block No C1 to C 17	3	7191.00
Type EWS Block D1 to D3	4	1410.00
Community Centre	2	458.00

NOC is issued subject to following conditions:  
ਐਨ ਓ ਐਸ ਐਸ ਹੇਠ ਲਿਖੀਆਂ ਸ਼ਰਤਾਂ ਦੇ ਆਧਾਰ ਤੇ ਜਾਰੀ ਕੀਤਾ ਜਾਂਦਾ ਹੈ।

1. Fire Safety arrangements shall be kept in working condition at all the times.  
ਹਰ ਸਮੇਂ ਅੱਗ ਤੋਂ ਬਚਾਅ ਦੇ ਯੰਤਰਾਂ ਨੂੰ ਚਾਲੂ / ਸਰਗੀ ਹਾਲਤ ਵਿੱਚ ਰੱਖਿਆ ਜਾਵੇ।
2. Occupants/ owner should have trained staff to operate the operation of fire safety system provided there in.  
ਉਪਲੱਬਧ ਅੱਗ ਬੁਝਾਉਣ ਦੇ ਯੰਤਰਾਂ ਦੀ ਵਰਤੋਂ ਤੋਂ ਰਹਿਣ ਵਾਲੇ ਲੋਕਾਂ / ਮਾਲਕਾਂ ਨੂੰ ਜਾਣ ਕਰਵਾਇਆ ਜਾਣਾ ਯਕੀਨੀ ਬਣਾਇਆ ਜਾਵੇ।
3. Fire Officer can check the arrangements of fire safety at any time, this certificate will be withdrawn without any notice if any deficiency is found.  
ਫਾਇਰ ਓਫਿਸਰ ਅਧਿਕਾਰੀ ਕਿਸੇ ਵੀ ਵਕਤ ਇਨ੍ਹਾਂ ਸਾਰੇ ਪ੍ਰਬੰਧਾਂ ਨੂੰ ਚੈੱਕ ਕਰ ਸਕਦਾ ਹੈ, ਜੇ ਕਰ ਕੋਈ ਕਮੀ ਪਾਈ ਗਈ ਤਾਂ ਇਹ ਸਰਟੀਫਿਕੇਟ ਹਟਾ ਲਿਆ ਜਾਵੇਗਾ।
4. Occupants/ owner should apply for renewal of fire safety certificate one month prior to expiry of this certificate.  
ਮਾਲਕ ਜਾਰੀ ਕੀਤੇ ਗਏ ਫਾਇਰ ਸੇਫਟੀ ਸਰਟੀਫਿਕੇਟ ਦੀ ਮਿਤੀ ਖਤਮ ਹੋਣ ਤੋਂ ਇੱਕ ਮਹੀਨਾ ਪਹਿਲਾਂ ਗੈਨੀਊ ਕਰਵਾਉਣ ਲਈ ਪਾਬੰਦ ਹੋਵੇਗਾ।

**\* Above Details cannot be used as ownership proof.**  
ਉਪਰੋਕਤ ਵਰਸਾਈ ਗਈ ਜਾਣਕਾਰੀ ਨੂੰ ਮਾਲਕਾਨਾ ਦੇ ਸਬੂਤ ਵਜੋਂ ਨਹੀਂ ਵਰਤਿਆ ਜਾਵੇਗਾ।

\* This is digitally created certificate, no signatue are needed  
ਇਹ ਡਿਜੀਟਲੀ (ਕੰਪਿਊਟਰਾਈਜ਼ਡ) ਤਿਆਰ ਕੀਤਾ ਗਿਆ ਸਰਟੀਫਿਕੇਟ ਹੈ, ਜਿਸ ਵਿੱਚ ਦਸਤਖਤ ਦੀ ਕੋਈ ਲੋੜ ਨਹੀਂ ਹੈ।



Designer of Multistorey Buildings, Flat Slabs,  
Shell Roofs, Steel Structures etc.

Ref. No. ...A/23/16


Dated 23/07/16

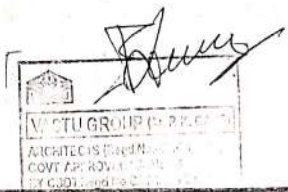
**STRUCTURAL SAFETY CERTIFICATE**

Sub: Structural Design of Proposed Rail Vihar group housing Project of Indian Railway Welfare Organization (IRWO) on V.I.P. Road, Zirakpur (near Chandigarh) Punjab.

This is to certify that the structural drawings for the building mentioned in the subject matter above have been designed in accordance with the relevant Indian Standard Criteria for design of R/C structures (IS:456-2000). The approved structural design as shown in the design drawings stamped by ARO TECH STRUCTURAL CONSULTANTS, JALANDHAR is safe and sound for earthquake loading as per Indian Standards for earthquake resistant design IS:1893-2002 and IS: 13920-1992.

The responsibility of ARO TECH STRUCTURAL CONSULTANTS, JALANDHAR shall be limited to checking of structural design calculations and drawings only. All procedural /legal /operational matters and architectural / functional details will be the responsibility of the owner.

Sincerely,   
ER. AJAY ARORA  
M.E. Structures



Superintending Hydrogeologist



भारत सरकार  
केन्द्रीय भूमि जल प्राधिकरण  
जल संसाधन मंत्रालय

Government of India  
Central Ground Water Authority  
Ministry of Water Resources

CGWA/IND/Proj/2014- 1604

No.21-4(643)/NWR/CGWA/2014- 1687

Dated: 16 OCT 2014

To,

General Manager  
Indian Railway Welfare Organization  
Dy. CE Construction Office Complex  
(Near Railway Station)  
Northern Railway, Chandigarh-160022

Sub:- **NOC for ground water withdrawal to Indian Railway Welfare Organization, in respect of their proposed residential project "Rail Vihar" located at VIP Road, Zirakpur, Village Bishanpura, Tehsil Dera Bassi, District SAS Nagar (Mohali), Punjab – reg.**

Refer to your letter dated 30.6.2014 on the above cited subject. Based on recommendations of Regional Director, Central Ground Water Board, North Western Region, Chandigarh vide their office letter No. 4(172)A-PB/Rail Vihar/NWR/S&I/2014-2160 dated 20.08.2014 and further deliberations on the subject, the NOC of Central Ground Water Authority is hereby accorded to **Indian Railway Welfare Organization, in respect of their proposed residential project "Rail Vihar" located at VIP Road, Zirakpur, Village Bishanpura, Tehsil Dera Bassi, District SAS Nagar (Mohali), Punjab.** The NOC is, however subject to the following conditions:-

1. The firm may abstract **234 m<sup>3</sup>/day** (not exceeding **85,410 m<sup>3</sup>/year**) of ground water, through proposed two (2) deep tubewell only, till Municipal Council Zirakpur's water supply to the area is available. No additional ground water abstraction structures to be constructed for this purpose without prior approval of the CGWA.
2. The wells to be fitted with water meter by the firm at its own cost and monitoring of ground water abstraction to be undertaken accordingly on regular basis, at least once in a month. The ground water quality to be monitored twice in a year during pre monsoon and post monsoon periods.
3. **Indian Railway Welfare Organization**, shall, in consultation with the Regional Director, Central Ground Water Board, North Western Region, Chandigarh implement ground water recharge measures at least to the tune of **21,880 m<sup>3</sup>/year** as proposed, for augmenting the ground water resources of the area within six months from the date of issue of this letter.
4. The photographs of the recharge structures after completion of the same are to be furnished immediately to the Regional Director, Central Ground Water Board, North Western Region, Chandigarh for verification and under intimation to this office.

West Block - 2, Wing - 3, Sector - 1, R.K. Puram, New Delhi - 110066

Tel : 011-26175362, 26175373, 26175379 • Fax : 011-26175369

Website : www.cgwb.gov.in, www.mowr.gov.in

स्वच्छ सुरक्षित जल - सुन्दर सुरक्षित कल

CONSERVE WATER - SAVE LIFE

f.c.d on 27/10/14