AGI INFRA LTD.
(BUILDERS & DEVELOPERS)
CIN : L45200PB2005PLC028466
Jalandhar Heights, 66 Ft. Road, Village Pholriwal, Near Urban Estate Phase-II, Jalandhar City (Punjab) INDIA
Phone : 0181-2681986 | Tel/Fax : 0181-2681886 | gi_builders@yahoo.co.in
info@agiinfra.com | www.agiinfra.com

Date: Jan. 05, 2019

The Advisor
Ministry of Environment, Forest & Climate Change
Northern Regional Office
Bays No. 24-25, Sector 31-A,
CHANDIGARH.

SIR

Sub.: Submission of compliance of EC of "*Jalndhar Heights-II, Jalandhar"*

We are developing a residential apartment complex "Jalandhar Heights – II" at Village Pholriwal, Tehsil & Distt. Jalandhar.

The project was granted EC by the SEIAA, Punjab, (vide no, SEIAA/2017/914, dated 05.05.2017).

As a part of the statutory requirement, please find enclosed six-monthly compliance report, along with requisite annexures, of the EC of the project.

Hope your good office will find the same in order

For AGI Infra Ltd.



(authorised signatory)

SIX-MONTHLY ENVIRONMENTAL COMPLIANCE REPORT

CONSTRUCTION OF RESIDENTIAL APARTMENT COMPLEX "JALANDHAR HEIGHTS – II"

AT

VILLAGE PHOLRIWAL, DISTRICT JALANDHAR

PUNJAB.

SUBMITTED BY:

M/S AGI INFRA LTD., C/O JALANDHAR HEIGHTS II, 66 Road, VILLAGE PHOLRIWAL, JALANDHAR.

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DATA SHEET

<table>
<tr><td>1.</td><td>Project type</td><td>Construction Project</td></tr>
<tr><td>2.</td><td>Name of the project</td><td>Jalandhar Heights II</td></tr>
<tr><td>3.</td><td>Clearance letter (S) O.M. No.& Date</td><td>Environment Clearance has been granted vide Letter no. SEIAA/2017/914,dated 05.05.2017. Copy of the same is attached as Annexure-I.</td></tr>
<tr><td>4.</td><td colspan="2">Location</td></tr>
<tr><td>a.</td><td>District(s)</td><td>Jalandhar</td></tr>
<tr><td>b.</td><td>State(s)</td><td>Punjab (Pb)</td></tr>
<tr><td>c.</td><td>Latitude/Longitude</td><td>75°31'11" N, 31°15'30" E</td></tr>
<tr><td>5.</td><td>Address for correspondence</td><td>M/s AGI Infra Ltd.,
C/o Jalandhar Heights,
66 Road, Village Pholriwal,
Jalandhar.</td></tr>
<tr><td>6.</td><td colspan="2">Salient Features</td></tr>
<tr><td>a.</td><td>Of the project</td><td>The total plot area is increased from ~26,082 m^2 (~6.45 acres) to ~41703 m^2 (~10.31 acres) and total built up area will increase from ~74636.8 m^2 to ~145366 m^2.</td></tr>
<tr><td>b.</td><td>Of the Environment Management Plans</td><td>As per the Environmental Clearance, the details are;
<table>
<tr><td>Water Demand</td><td>545-600m^3/day</td></tr>
<tr><td>Water Supply</td><td>Bore well</td></tr>
<tr><td>Wastewater Treatment</td><td>Proposed STP of capacity ~450 m^3/day</td></tr>
<tr><td>Solid waste</td><td>The total quantity of solid waste generation after expansion will be ~1600 kg/day.</td></tr>
</table></td></tr>
<tr><td>7</td><td colspan="2">Break-up of the project Area</td></tr>
<tr><td>a.</td><td>Submergence area: Forest and Non-Forest</td><td>Not applicable</td></tr>
<tr><td>b.</td><td>Others</td><td>Not applicable</td></tr>
<tr><td>8</td><td>Break up of project affected population with enumeration of those losing houses/dwelling units only, agricultural land only both dwelling units and agricultural land and landless laborers/land landless/artisans.</td><td>No population has been affected as there was no inhabitation on the land.</td></tr>
</table>

a.	SC/ST/Adivasis	Not applicable
b.	Others (please indicate whether these figures are base on any scientific and systematic survey carried out or only provisional figures. If a survey has been carried out give details and year of survey)	Not applicable
9	Financial details	
a.	Project cost as originally planned and subsequent revised estimates and the year of price reference.	Total cost of the project is about**₹ 220 crores.**
b.	Allocations made for environmental management with item wise and year of assessment.	As per the EC, ~₹ 155 lacs will be incurred on account of capital cost and ~₹ 57lacs will be incurred, annually, on account of operational phase for implementation of EMP/CSR.
c.	Benefit cost ratio/Internal rate of return and year of assessment.	Will be submitted
d.	Whether (c) includes the cost of environmental management as shown in (b) above.	Yes. The cost benefit ratio will be worked out considering the cost of environment, as well.
e.	Actual expenditure incurred on the project so far.	~R 120 Crores
f.	Actual Expenditure incurred on the EMP so far.	~₹ 45 lacs.
10	Forest lands requirements:	
a.	The status of approval for diversion of forest land for non-forestry use.	The approval for diversion of land is granted by the Department of Forests & wildlife preservation, Punjab, vide letter no. FCA/1980/PBIP/69/2016/ 5888-91 dated 09.03.2018. (Copy Enclosed).
b.	The status of clear felling, if any	Nil
c.	The status of compensatory afforestation, if any	Charges for ~500 m^2 of compensatory afforestation (as required by the competent authority) has been deposited
d.	Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far	—
11	The status of clear felling in no forest areas (such as submergence area of	Nil

	reservoir, approach road) if any, with quantitative information.	
12	Status of Construction	
a.	Date of commencement (actual and/or planned)	01/01/2016
b.	Date of completion (actual and/or planned)	The project is still in construction phase. The planned date of completion is 12/2019.
13	Reasons for the delay, if the project is yet to start:	__

Compliance Report of EC

(*No. SEIAA/2017/914 dated 05.05.2017*)

PART A – Conditions common for all the three phases i.e. Pre-Construction Phase, Construction Phase and Operation Phase & Entire Life		
i)	Any appeal against this environmental clearance shall lie with the National Green tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Understood and accepted.
ii)	A first aid room will be provided in the project both during construction and operation phase of the project.	First Aid Room has been provided at the project site. It is being maintained during operation phase of the project. In case of any major medical emergency patients can be shifted to the nearby hospital which is at a distance of ~1.5 km from the project site.
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.	As per the present planning under execution, there is no change in position/location of the utilities from that on submitted layout plans. Besides, if any such change is necessitated, a prior approval of the same will be obtained.
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	The project proponent undertakes to ensure implementation of all relevant submissions and commitments in letter and spirit.
v)	Ambient air & noise levels should conform to prescribed standards both during day and night. Incremental pollution loads on the ambient air quality, noise especially during worst noise generating activities, water quality and soil should be periodically monitored during construction phase as well as operation & entire life phase as per the Ministry of Environment, Forests & Climate Change guidelines and all the mitigation measures should be taken to bring down the levels within the prescribed standards.	The project proponent undertakes to ensure that at no time, incremental pollution loads on ambient air quality noise, water quality and soil, shall not cause any violation of prescribed standards. The environmental quality monitoring is periodically being carried out and shall be continued as per the applicable guidelines.
vi)	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department,	Agreed and undertake to ensure.

	Forest (Conservation) Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, by project proponents from the competent authorities including Punjab Pollution Control Board and from other statutory bodies as applicable.	
vii)	The State Environmental 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.	Understood and accepted.
viii)	A proper record showing compliance of all the conditions of environmental clearance shall be maintained and made available at site at all the times.	Agreed and undertake to ensure.
ix)	The project proponent shall also submit half yearly compliance reports in respect of the stipulated prior environmental clearance terms & conditions including results of monitored data (both in hard & soft copies) to the respective Regional Office of MoEF, the Zonal Office of CPCB, the SPCB and SEIAA, Punjab, on 1st June and 1st December of each calendar year.	Agreed and undertake to ensure.
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 and undertake to ensure. A copy of the complete set of all the documents submitted to the SEIAA, Punjab, for obtaining the EC has been forwarded to the RO, MoEFCC, Chandigarh.
xi)	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by State Environment Impact Assessment Authority, Punjab	Understood and accepted.
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.	Understood and accepted.

xiii)	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, SEIAA, Punjab, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels for all the parameters of NAAQM standards shall be monitored and displayed at a convenient location near the main gate of the company in the public domain	Agreed and being done.
xiv)	The inlet and outlet point of natural drain system should be maintained with adequate size of channel for ensuring unrestricted flow of water.	There is no natural drain-line passing through the project site.
xv)	The unpaved area shall be more than or equal to 20% of the recreational open spaces.	Agreed and the same has been included in the project planning.
xvi)	Environmental Management Cell shall be formed which will supervise and monitor the environment related aspects of the project.	The Environment Management Cell has been formed and it comprises of; • S. Sukhdev Singh, Managing Director • Mr. Ashwani Kant Aggarwal, General Manager • Mr. Saranjit Singh Sahi, Deputy General Manager • Mr. Virender Singh, Project Manager
PART B – Specific Conditions		
(I)	**Pre-construction Phase**	
i)	"Consent to establish" shall be obtained from Punjab Pollution Control Board under Air (Prevention & Control of Pollution) Act, 1981 and Water (Prevention & Control of Pollution) Act, 1974 and a copy of the same shall be submitted to the Ministry of Environment & Forests/State Level Environment Impact Assessment Authority before the start of any construction work at site.	CTE has already been obtained from the PPCB – copy enclosed.
ii)	All required sanitary and hygienic measures should be in place before starting construction activities and to be maintained throughout the construction phase.	The requisite measures has already been put in place and shall be maintained throughout the construction phase.
iii)	The approval of competent authority shall be obtained for structural safety of the buildings due to earthquakes, adequacy of firefighting equipment's etc. as per National Building Code including protection measures from lightning.	All the requisite approvals have been obtained.

iv)	Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, disposal of waste water & solid waste in an environmentally sound manner, safe drinking water, medical health care, crèche, etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Most of the labour is local. Temporary housing with adequate facilities have been provided.
(II)	**Construction Phase**	
i)	All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.	The top soil excavated during activities has been safely stored and shall be used only for horticulture/landscape within the project site.
ii)	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed off after taking the necessary precautions for general safety and health aspects of people with the approval of competent authority. The project proponent will comply with the provisions of Construction & Demolition Waste Rules, 2016. Dust, smoke & debris prevention measures such as wheel washing, screens, barricading and debris chute shall be installed at the site during construction including plastic/tarpaulin sheet covers for trucks bringing in sand & material at the site.	Muck Management Plan has been prepared for the management and disposal of the muck generated keeping in view the general safety and health aspects of people. The construction waste is being reused in the project and is not being discarded.
iii)	Construction spoils, including bituminous material and other hazardous material, must not be allowed to contaminate watercourses and the dump sites for such material must be secured, so that they should not leach into the groundwater.	No hazardous material is expected to be generated other than the used oil from the DG Sets which will be disposed off as per the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
iv)	Vehicles hired for bringing construction material to the site and other machinery to be used during construction should be in good condition and should conform to applicable air emission standards.	All the vehicles are less than 10 years old and are periodically validated for PUC certificate and other provisions of the Motor Vehicle Act.
v)	The project proponent shall use only treated sewage/wastewater for construction activities and no fresh water for this purpose will be used. A proper record in this regard should be maintained and available at site.	The construction water requirement is being wholly met through use of treated sewage from Jalandhar Heights, Phase-I. A pipeline has been provided from the STP for this purpose.
vi)	Fly ash based construction material should be used in the construction as per the provisions of Fly Ash Notification of September, 1999 and as amended on August, 2003 and notification No. S.O. 2804 (E) dated 03.11.2009.	The PPC is being extensively used as basic construction material at the site.

vii)	Water demand during construction should be reduced by use of ready mixed concrete, curing agents and other best practices.	An RMC plant is already operational at the site. Other measures are being followed in consultation with the architects.
viii)	The project proponent will provide sewer connectivity at his own cost in case sewer line is not laid to the project site from the main sewer before commissioning of the project.	The PP undertakes to provide sewer connectivity at his own cost in case the same is not made available by the MC.
ix)	Adequate treatment facility for drinking water shall be provided, if required.	Adequate pre-water treatment facility is already in plan for water supply to the inhabitants.
x)	The project proponent shall provide electromagnetic flow meter at the outlet of the water supply, outlet of the STP and any pipeline to be used for re-using the treated wastewater back into the system for flushing and for horticulture purpose/green etc.	Agreed and undertake to comply.
xi)	The project proponent will provide dual plumbing system for reuse of treated wastewater for flushing/HVAC purposes etc. and color coding of different pipe lines carrying water/wastewater/treated wastewater as follows: a) Fresh water – Blue b) Untreated wastewater – Black c) Treated wastewater(for reuse) – Green d) Treated wastewater (for discharge) – Yellow e) Storm water – Orange	Agreed and undertake to comply.
xii)	Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.	Agreed and undertake to comply.
xiii)	Separation of drinking water supply and treated sewage supply should be done by the use of different colors.	Agreed and undertake to comply.
xiv)	a) Adequate steps shall be taken to conserve energy by limiting the use of glass, provision of proper thermal insulation and taking measures as prescribed under the Energy Conservation Building Code and National Building Code, 2005 on Energy conservation. b) Solar power plant of 240 KW by utilizing at least 30% of the open roof top area in the premises shall be installed for utilizing maximum solar energy. Also, LED lights shall.be provided as proposed for illumination of common areas instead of CFL lights or any other conventional lights/bulbs.	Agreed and undertake to comply.

xv)	The diesel generator sets to be used during construction phase should conform to the provisions of Diesel Generator Set Rules prescribed under the Environment (Protection) Act, 1986.	Agreed and undertake to comply.
xvi)	Chute system, separate wet & dry bins at ground level and for common areas for facilitating segregation of waste, collection centre and mechanical composter (with a minimum capacity of 0.3 kg/tenement/day) shall be provided for proper collection, handling, storage, segregation, treatment and disposal of solid waste.	Agreed and undertake to comply.
xvii)	A rainwater harvesting plan shall be designed where the re-charge bores (minimum one per 5000 sq.m. of built up area) shall be provided. Recharging wells for roof top run-off shall have provision of adequate treatment for removing suspended matter etc. before recharging as per the CGWA guidelines. Run-off from areas other than roof top such as green areas and roads/pavement etc. may also be recharged but only after providing adequate treatment to remove suspended matter, oil & grease etc. and ensuring that rainwater being recharged from these areas is not contaminated with pesticides, insecticides, chemical fertilizer etc.	Agreed and undertake to comply.
xviii)	Green belt of adequate width as proposed shall be provided so as to achieve attenuation factor conforming to the day & night standards prescribed for residential land use. The open spaces inside the plot should be suitably landscaped and covered with vegetation of indigenous species/variety. A minimum of one tree for every 80 sq.m. of land shall be planted and maintained. The existing trees may be counted for this purpose. Preference should be given to planting native species. Where the trees need to be cut, compensatory plantation in the ratio of 1:3 (i.e. planting of three trees for every one tree that is cut) shall be done with the obligation to continue maintenance.	Agreed and undertake to comply.
PART C – General Conditions		
(I)	**Pre-construction Phase**	
i)	This environmental clearance will be valid for a period of seven years from the date of its issue or till the completion of the project, whichever is earlier.	Understood and accepted.

ii)	The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded environmental clearance and copies of clearance letters are available with the Punjab Pollution Control Board. The advertisement should be made within seven days from the day of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office, Ministry of Environment & Forests, Chandigarh and SEIAA, Punjab.	The EC has been advertised – copies enclosed.
iii)	The project proponent shall obtain permission from the CGWA for abstraction of groundwater & digging of bore well(s) and shall not abstract any groundwater without prior written permission of the CGWA, even if any bore well(s) exist at site	An application has been submitted for obtaining permission for groundwater abstraction from the CGWA.
iv)	The project proponent shall obtain CLU from the competent authority.	The CLU has been obtained – copy enclosed.
v)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Copy of the EC has been sent to the MC, Jalandhar. EC letter has also been displayed on the website.
(II)	**Construction Phase**	
i)	The project proponent shall adhere to the commitments made in the Environment Management Plan for the construction phase and Corporate Social Responsibility and shall spend minimum amount of Rs.1.55 crore towards capital investment and Rs. 5 lacs/year towards CSR activities as proposed in addition to the amount to be spent under the provisions of the Companies Act 1956.	Agreed and undertake to comply.

GSTIN : 03BPEPS9693P1ZV
PAN No. BPEPS9693P

ENVIRON TECH LABORATORIES

NABL ACCREDITED & PPCB RECOGNISED

Plot No. 62, 1st Floor, JLPL Industrial Area, Airport Road, Sector 82, S.A.S. Nagar (Mohali) Pb.
Tele : 9463000081, Mob. 94172-10081, Email : environtechlab72@yahoo.com

E.T.L.

Ref. No. ETL/DSP/181689

Dated : 04/01/2019

TEST REPORT

To
M/s JALANDHAR HEIGHTS- 2,
PP-AGI INFRA LTD, 66 FT ROAD,
VILLAGE PHOLRIWAL, JALANDHAR,
PUNJAB

Report No.	**ETL/25/2018-19/G/182017B**	**Report Date**	**04.01.2019**
Your Ref.No	Ni	**Type of sample**	**Ambient Air Monitoring**
Sample Code given by Customer	Nil	Date of Sampling	28.12.2018
Sampling Location	Within Premises	Date of Sample Receipt	29.12.2018
Sample Collected by	Lab Person	Sample I.D.	ETL/05/2018-19/ G/2017
Sampling procedure	As Per SOP	Date of Test	29.12.2018 - 04.01.2019

	TECHNICAL DATA	
1	Location of Sampling Station	Near Main Gate
2	Instrument Used for Sampling	Respirable Dust Sampler-I, $PM_{2.5}$ Sampler,
3	Source of Sampling	Ambient Air Monitoring
4	Temperature of Sampling Location	17°C
5	Environmental Condition	Max temp. 20°C
		Min temp. 5°C
		Cloudy sky Wind Direction West to East
6	Flow Rate of Sampling	1.0 LPM
7	Time Period for Sampling	1440min.

Sr.No.	PARAMETERS	RESULTS	STANDARD	TEST METHOD
1.	PM_{10}	78.20	100.0 µg/m³	IS:5182(P-23):2006
2.	SO_2	7.20	80.0 µg/m³	IS:5182(Pt-2):1999 reaffirmed 2001
3.	NO_2	20.10	80.0 µg/m³	IS:5182(Pt-6):2006
4.	$PM_{2.5}$	42.80	60.0 µg/m³	SOP (ETL/SOP/02- Section-4)
5.	CO	ND	4.0 mg/m³	IS:5182 (P-10)
6.	Nickel (Ni)	ND	20.0 ng/m³	Lab. SOP (BY AAS)
7.	Arsenic (As)	ND	6.0 ng/m³	Lab. SOP (BY AAS)
8.	Lead (Pb)	ND	1.0 µg/m³	Lab. SOP (BY AAS)
9.	Benzene (C_6H_6)	ND	5.0 µg/m³	Lab. SOP (BY G.C)
10.	Benzo (a) pyrene (Ba P)	ND	1.0 ng/m³	Lab. SOP (BY G.C)
11.	Ammonia (NH_3)	ND	400.0 µg/m³	CPCB Guideline
12	Ozone (O_3)	ND	180.0 µg/m³	CPCB Guideline

ND denotes not detectable

Note:

1. The test report refers only to tested sample and applicable parameters.
2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
3. The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

(Checked By)

Environ Tech Laboratories ETL Mohali

****End of Report****

(Authorized Signatory)

RAMESHWAR KUMAR
Technical Manager
Environ Tech Laboratories

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GSTIN : 03BPEPS9693P1ZV
PAN No. BPEPS9693P

ENVIRON TECH LABORATORIES

NABL ACCREDITED & PPCB RECOGNISED

Plot No. 62, 1st Floor, JLPL Industrial Area, Airport Road, Sector 82, S.A.S. Nagar (Mohali) Pb.
Tele : 9463000081, Mob. 94172-10081, Email : environtechlab72@yahoo.com

Ref. No. ETL/DSR/181689

Dated : 04/01/2019

TEST REPORT

To
M/s JALANDHAR HEIGHTS- 2,
PP-AGI INFRA LTD, 66 FT ROAD,
VILLAGE PHOLRIWAL, JALANDHAR,
PUNJAB

Report No.	**ETL/25/2018-19/G/182017C**	**Report Date**	**04.01.2019**
Your Ref. No	**NIL**	**Type of sample**	**Ambient Noise Level**
Sample Code given by Customer	NIL	Date Monitoring	28.12.2018
Sampling Location	**Near Main Gate**	Sample I.D.	ETL/05/2018-19/G/2017C
Sample Monitored By	Lab Person		
Sampling procedure	As per SOP	Date of test	28.12.2018

S. NO.	Site	Time of sampling		Result dB(A) Leq		Test method
		Day	Night	Day Time (Limits ---- dB(A)Leq as per noise rule 2000)	Night Time (Limits ---- dB(A)Leq as per noise rule 2000)	
1.	**Near Main Gate**	10:00am to11:00am	10:15pm to11:15pm	69.50	54.2	IS:9989-1981 Reff.2001

Note:

1. The test report refers only to tested sample and applicable parameters.
2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.

(Checked by)

(Authorized Signatory)

RAMESHWAR KUMAR
Technical Manager
Environ Tech Laboratories

Environ Tech Laboratories ETL * Mohali *

****End of Report****

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GSTIN : 03BPEPS9693P1ZV
PAN No. BPEPS9693P

ENVIRON TECH LABORATORIES

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Tele : 9463000081, Mob. 94172-10081, Email : environtechlab72@yahoo.com

E.T.L.

Ref. No. ETL/DSR/181689 Dated : 04/01/2019

TEST REPORT

To
M/s JALANDHAR HEIGHTS- 2,
PP-AGI INFRA LTD, 66 FT ROAD,
VILLAGE PHOLRIWAL, JALANDHAR,
PUNJAB

Report No.	**ETL/25/2018-19/G/182017A**	**Report Date**	**04.01.2019**
		Type of sample	**Borewell Water**
Your Ref. No.	Nil	Quantity	5 litre
Sampling Location	Within premises	Date of sampling	28.12.2018
		Date of sample receipt	29.12.2018
Sample Submitted By	Lab Person	Sample I.D.	ETL/05/2018-19/G/2017A
Sampling Procedure	As per SOP	Date of test	28.12.2018-04.01.2019

	Parameters	Results	Limits of IS: 10500 – 2012		Test method
			Requirement (Acceptable Limit)	Permissible limit in absence of alternate source	
1	pH	**7.37**	6.5 – 8.5	No relaxation	IS: 3025(Part – 11)2002/ APHA 22nd Edition 2012-4500B
2	Colour, Hazen unit, max	<1	5	25	IS: 3025 (Part – 4)2002/ APHA 22nd Edition: 2012-2120B
3	Odour	Agreeable	Agreeable	-----	IS: 3025 (Part – 5)-1983 (Reaffirmed 2006) APHA 22nd Edition: 2012-2150
4	Turbidity, NTU max	<1	5	10	IS: 3025 (Part – 10)2006/ APHA 22nd Edition: 2012-2130B
5	Total Dissolved Solids mg/l Max	**294**	500	2000	IS: 3025(Part – 16) 2006/ APHA 22nd Edition 2012-2540 C
6	Alkalinity (as $CaCO_3$) mg/l ,Max	**256**	200	600	IS: 3025 (Part –23) 2003/ APHA 22nd Edition 2012-2320 B
7	Chloride (as Cl), mg/l, Max	**07**	250	1000	IS: 3025 (Part – 32)2003/ APHA 22nd Edition 2012-4500 B
8	Sulphate (as SO_4) mg/l, Max	**04**	200	400	IS: 3025(Part - 24)1992/ APHA 22nd Edition 2012-4500 E
9	Nitrate (as NO_3) mg/l, Max	**1.47**	45	No relaxation	IS: 3025(Part –34)2003/ APHA 22nd Edition 2012-4500 B
10	Fluoride (as F) mg/l Max	**0.56**	1.0	1.5	IS: 3025(Part –60)2008/ APHA 22nd Edition 2012-4500 D
11	Calcium (as Ca) mg/l Max	**52**	75	200	IS:3025 (Part 40)2003/ APHA 22nd Edition 2012-3500 B

Environ Tech Laboratories ETL Mohali

Testing of Water. Waste Water, Soil, Food, Monitoring of Ambient Air, Ambient Noise & Stack Emission

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GSTIN : 03BPEPS9693P1ZV
PAN No. BPEPS9693P

ENVIRON TECH LABORATORIES

NABL ACCREDITED & PPCB RECOGNISED
Plot No. 62, 1st Floor, JLPL Industrial Area, Airport Road, Sector 82, S.A.S. Nagar (Mohali) Pb.
Tele : 9463000081, Mob. 94172-10081, Email : environtechlab72@yahoo.com

E.T.L.

Ref. No. ETL/DSP/181689 Dated : 04/01/2019

Report No. ETL/25/2018-19/G/182017A	Sample I.D. ETL/05/2018-19/G/2017A

S. No.	Parameters	Results	Limits of IS: 10500 – 2012		Test method
			Requirement (Acceptable Limit)	Permissible limit in absence of alternate source	
12	Magnesium (as Mg) mg/l, Max	20	30	100	IS: 3025(Part – 46)2003/ APHA 22nd Edition 2012-3500 B
13	Total Hardness (as $CaCO_3$) mg/l, Max	203	200	600	IS: 3025(Part – 21)2002/ APHA 22nd Edition 2012-2340 C
14	Chromium (as Cr)mg/L	0.0120	0.05	No relaxation	APHA 22nd Edition: 2012-3111B
15	Manganese (as Mn) mg/L	0.003	0.1	0.3	APHA 22nd Edition 2012-3111 B
16	Zinc (as Zn) mg/L	0.17	5	15	APHA 22nd Edition 2012-3111 B
17	Iron (as Fe) mg/L Max	0.08	0.3	No relaxation	IS: 3025 (Part –53)2003/ APHA 22nd Edition 2012--(3500 B)
18	Boron (as B) mg/L Max	ND	0.5	1.0	IS: 3025(Part –57)2005 / APHA 22nd Edition 2012-4500 B
19	Copper (as Cu) mg/L	0.004	0.05	1.5	APHA 22nd Edition 2012-3111 B
20	Lead(as Pb) mg/L	0.006	0.01	No relaxation	APHA 22nd Edition: 2012-3111B
21	Aluminium (as Al)mg/L	BDL	0.03	0.2	APHA 22nd Edition 2012-3500Al.B
22	Arsenic (as As) mg/L	0.005	0.01	0.05	APHA 22nd Edition 2012-3114B
23	Selenium (as Se) mg/L	0.004	0.01	No relaxation	APHA 22nd Edition 2012-3114B
24	Mercury (asHg) mg/L	BDL	0.001	No relaxation	APHA 22nd Edition 2012-3112B
25	Cadmium(as Cd) mg/L	BDL	0.003	No relaxation	APHA 22nd Edition: 2012-3111B
26	Residual free chlorine mg/L	ND	0.2	1	IS: 3025 (Part – 26)2003/ APHA 22nd Edition 2012-4500 B

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Bacteriological Examination:

S. NO.	PARAMETERS	TEST RESULTS	TEST METHOD
1.	E.coli/100ml	ABSENT	IS 15185
2.	Coliform/100 ml	ABSENT	IS 15185

ND: denotes Not Detectable BDL: denotes Below Detection Limit

All tested parameters are within permissible limit as per IS 10500:2012, so water is potable.

Note:

1. The test report refers only to tested sample and applicable parameters.
2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
3. The sample will be destroyed after thirty days from the date of issue of test report unless otherwise specified.

(Authorized Signatory)

RAMESHWAR KUMAR
Technical Manager
Environ Tech Laboratories

Environ Tech Laboratories ETL Mohali

End of Report

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SITE PHOTOGRAPHS



















