1	Inland Container Depot and Ware House (Logistic) Project	Compliance Status Report	7
	located at Village-Janoli & Baghola, Distt. Palwal, Haryana	(October 2014-March 2015)	

Name of Project: Inland Container Depot and Ware House (Logistic) Project located at Village-Janouli & Baghola, Distt. Palwal, Haryana by M/s. Hind Terminals Pvt. Ltd.

Environmental Clearance Letter No.: SEIAA/HR/2012/311 dated 8.10.2012 dated 08/10/2012.

Period of Compliance: October 2014 to March 2015

DARTI

Compliance of Stipulated Conditions of Environmental Clearance

Part A-Specific Conditions:-

I. Construction Phase:-

Museum

S. No.	Specific Conditions	Reply
i.	"Consent for Establish" shall be obtained	We have obtained Consent to Establish from
	from Haryana State Pollution Control	HSPCB vide letter no. HSPCB/TAC/2013/2807
	Board under Air and Water Act and a copy	dated 07/02/2013 and is enclosed as Annexure-
	shall be submitted to SEIAA, Haryana	1(A). We have also applied for Consent to
	before the start of any construction work at	Operate and trial permission has been granted
	site	vide letter no.
		HSPCB/Consent/:2846015PALCTOHWM1989915
		and HSPCB/Consent/:2846015PALCT01989915
		dated 15/04/2015 Copy is enclosed as
		Annexure-1 (B)
ii.	A first aid room as proposed in the project	A Separate first aid room at the site has been
	shall be provided both during construction	provided and is being used during construction
	and operational phase of the project.	phase of the project. Please refer to
		photographs attached as Annexure- 2.
iii.	Adequate drinking water and sanitary	Drinking water and sanitary facilities are being
	facilities should be provided for	provided to the workers and source of drinking
	construction workers at the site. Provision	water is hired water tankers. Waste water
	should be made for mobile toilets. Open	generation is approx 10 KLD and being disposed
	defecation by the laboures is strictly	off using water for sprinkling and for soil
	prohibited. The safe disposal of waste	formation work. Hence no disposal of waste
	water and the solid waste generated during	water needed in construction phase.
	the construction phase should be ensured.	

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:	All the top soil excavated during	
iv.	All the top soil excavated during construction activities should be stored for	Top soil excavated has been used for Green belt
	use in horticulture/landscape development	development, landscaping etc.
	within the project site.	
V.	Disposal of muck during construction	There is no muck generation at present. Finishing
	phase should not create any adverse effect	work is in progress. The Safety helmets and
	on the neighboring communities and be disposed of taking necessary precautions	shoes, Mask have been provided to laborers to
	for general safety and health aspects of	minimize dust inhalation. Most of the
	people, only in approved sites with the	construction waste has been reused on site.
	approval of competent authority.	
vi.	-	
V1.	Construction spoils, including bituminous material and other hazardous materials,	There is no construction spoils. No bituminous
	must not be allowed to contaminate water	materials generated or used at the site, in present
	courses and the dump sites for such	construction phase. All construction waste has
	material must be secured so that they	been used within site itself for filling under floors; roads etc. to the extent feasible. Remaining waste
	should not leach into the groundwater and	is disposed as per applicable rules. Soil & Water
	any hazardous waste generated during	Quality results are enclosed as Annexure-3.
	construction phase, should be disposed off	quanty rotation are enclosed as mineral e-5.
	as per applicable rules and norms with	
	necessary approval of Haryana State	
	Pollution Control Board.	
vii.	The diesel generator sets to be used during	Low sulphur diesel type DG sets have been used.
	construction phase should be of low	Currently the temporary power supply of 63 KVA
	sulphur diesel type and should conform to	is taken from DHBVN. The DG details utilized for
	Environment (Protection) Rules prescribed	power already submitted with previous report.
	for air and noise emission standards.	
viii.	The diesel required for operating DG sets	Quantity of Diesel used for D.G. Set is very small
	shall be stored in underground tanks and if	therefore no need to stored in underground tank
	required, clearance from Chief Controller of	& we are procuring from nearby sources and
	Explosives shall be taken.	directly filling the DG tank for construction phase.
ix.	Ambient noise levels should conform to	Ambient Air and Noise level monitoring has been
	standards both during day and night.	done and the results are enclosed as Annexure-4
	Incremental pollution loads on the ambient	& 5.
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Adequate measures should be taken to reduce ambient air and noise level during construction phase, so as to conform to stipulated residential standards. **Dust suppression system (water spray) has been used at construction site and unpaved roads. **During transportation, materials are being covered by tarpaulin sheets **Dust generation is reduced by using sharp teeth for excavation machinery **Provision of silencer to modulate padding / noise isolators at equipment / machinery used for construction **Regular maintenance of vehicles & machinery is being carried out **Construction activity limited up to Day time only **D.G. sets has been kept in acoustic enclosures. **X.** Fly ash should be used as building material in the construction as per the provisions of the Fly Ash Notification of September 1999 and as amended on 27th august 2003. **xi.** Ready mix concrete must be used in building construction. **xiii.** Storm water control and its reuse as per CGWA and BIS standards for various applications should be ensured. **xiii.** Water demands during construction should be reduced by the use of pre mixed concrete, curing agents and other best practices as referred. **xiv.** Permission from competent authority for supply of water shall be obtained prior to option as a specific provision of silencer tomodulate padding unpared roads. **y.** Dust suppression system (water spray) has been used at construction, materials are being unpaved roads. **y.** Dust generation is reduced by using sharp teeth for excavation machinery **Y.** Provision of silencer to modulate padding / noise isolators at equipment / machinery used for construction is reduced by using sharp teeth for excavation machinery **Y.** Provision of silencer to modulate padding / noise isolators at equipment / machinery used for construction is reduced by using sharp teeth for excavation machinery **Y.** Provision of silencer to modulate padding / noise isolators at equipment / used for construction is reduced by using sharp teeth for excavat		air and noise quality should be closely	Measures taken for reducing Air & Noise
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concrete, curing agents and other best used whenever needed. practices as referred. xiv. Permission from competent authority for The area falls under safe category as per the		be reduced by the use of pre mixed	4
xiv. Permission from competent authority for The area falls under safe category as per the			_ 1
per uno		practices as referred.	
	xiv.	Permission from competent authority for	The area falls under safe category as per the
		supply of water shall be obtained prior to	

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	operation of the project.	The total and the second secon
	operation of the project.	The total requirement of ground water is 123
		Cum. The approval of CGWA regarding the same
		is enclosed as Annexure-6.
xv.	Roof should meet perspective requirement	Roof tops of building are designed with
	as per Energy Conservation Building Code	puffing/bricks bat coba for water proofing and
	by using appropriate thermal insulation	thermal insulation. Roof tops will also have partly
	material to fulfill requirements.	landscaped area/gardens in its final phase. RWH
		is also planned on roofs.
	One gue and all all all all all all all all all al	
xvi.	Opaque wall should meet perspective	This has been adequately dovetailed and
	requirement as per Energy Conservation	executed while construction of façade and
3	Building Code which is proposed to be	building interior works. DGU has been used to
	mandatory for all air conditioned spaces	reduce heat and AC loads.
	while it is apparitional for non air	
	conditioned spaces by use of appropriate	
	thermal insulation material to fulfill	
	requirements.	
xvii.	The approval of the Competent authority	Building is designed on account of structural
	shall be obtained for structural safety of	safety from earthquake, adequacy of fire fighting
	the building on account of earthquake,	equipments etc. as per National Building Code
	adequacy of fire fighting equipments etc. as	including protection measures from lightening
	per National Building Code including	etc. A copy of Approved building plan is enclosed
	protection measures from lightening etc. If	as Annexure-7. No Forest land is involved in
	any forest land is involved in the proposed	proposed site and NOC from Forest department
	site, clearance under The Forest	has been obtained and is enclosed as Annexure-
	Conservation Act shall be obtained from	8.
	the competent Authority.	
xviii.	The PP shall use water for construction	Water from hired water tankers is being used for
	phase only after getting prior permission	construction activity. For operation phase
	from CGWA for using the bore well water	permission has already been obtained. Refer
	for construction purposes.	Annexure- 6.
	and the second s	
xix.	The project proponent shall construct	16 No. of Rain water harvesting pits will be
	sufficient nos. rain water harvesting pits	constructed in phased manner for recharging
	£	ground water within the project promises as a series
	for recharging the ground water within the	ground water within the project premises as per

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	pits shall be designed to make provisions for silting chamber and removal of floating matter before entering harvesting pit. Maintenance budget and persons responsible for maintenance must be provided. Care shall also be taken that contaminated water do not enter any RWH pit.	RWH plan is enclosed as Annexure-9(A). 5 nos. RWH pits are prepared at site in Phase-1 as planned. Location is as earmarked. Annexure-9(B)
xx.	The size of RHW pits particularly depth of the pit proposed is too much which shall make it difficult to maintain. Number of RHW pits shall be increased substantially (preferably as per norm of 1 pit per acre) by changing the size of the RHW pits.	Due to nature of industry it is not feasible to provide RWH pits in every acre, as it hampers the operational efficiency. The run-off water is collected through Storm Water Drain and collected into the RWH pits, which are deep enough to discharge into ground water. Please refer Annexure -10. This aspect was amplified during our presentation for environment clearance and in the report for Ground Water Withdrawal permission.
xxi.	The project proponent shall provide minimum one hydraulic ladder for escape of people in case of fire.	All buildings within the complex are planned with provision of fire management as per NBCC code. Since none of the buildings are more than 4 stories and hence Hydraulic ladder is not needed.
xxii.	The project proponent shall submit assurance from the DHBVN for supply of 2000 KVA power supply before the start of construction. In no case project will be operational solely on generation without any power supply from external power utility.	The approval from DHBVN has been obtained is enclosed as Annexure -11 .
xxiii.	The project proponent shall seek clearance from Railway Authorities for construction of rail track in the premises.	DPR and ESP Approval from Northern Railway has been obtained and a copy of the same is enclosed as Annexure - 12. Land licensing has been received.
xxiv.	The project proponent shall not cut any	There are no plans to cut any tree in the project

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distance of the second

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existing tree and project landscaping plan area as there are no tree existing. However for should be modified to include those trees in green area. permission shall be obtained when work commences.

II. Operational Phase:

S.	Specific Conditions	Compliance Report
No.		
a.	The project proponent shall setup/ install STP of	The proposed STP for phase 1 operation of
	sufficient capacity for treatment of waste water	the project is as given in Annexure-13.
	for the treatment of sewage to the prescribed	This shall cater for complete phase 1
	standards including odor and treated effluent	operation. As and when subsequent phases
	will be recycled to achieve zero exit discharge.	are planned STP shall also be buildup and
	The installation of the STP should be certified by	integrated accordingly. The treated water is
	an independent expert and a report in this regard	being utilized for gardening and
	should be submitted to the SEIAA, Haryana	arboriculture purposes.
	before the project is commissioned for operation.	
	Discharge of treated sewage shall conform to the	
	norms and standards of HSPCB, Panchkula.	
b.	Separation of the grey and black water should be	Treated water quantity is just adequate for
	done by the use of dual plumbing line. Treatment	gardening/ arboriculture. Hence dual
	of 100% gray water by decentralized treatment	plumbing is not planned and treated water
	should be done ensuring that the re-circulated	is proposed to be utilized for gardening/
	water should have BOD maximum up to 10 ppm	maintenance/ cleaning purposes.
	and the recycled water will be used for flushing,	
	gardening and DG set cooling and running of	
	fountain in the water body to achieve zero exit	
	discharge.	
c.	For disinfection of the treated waste water ultra	Moving Bed Bio Reactor (MBBR)
	violet radiation or ozonisation process should be	technology with aeration is planned for
	used.	waste water treatment.
d.	The solid waste generated should be properly	Appropriate arrangement for the collection,
	collected & segregated. Biodegradable waste	segregation and disposal of solid waste will
	shall be decomposed at site and dry/inert waste	be done in phased manner for Complete
		<u> </u>

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	should be disposed off to approved sites for land	ICD for operation phase.
	filling after recovering recyclable material.	Too for operation phase.
e.		Provision of approx 4 No. of DG Sets of
	of backup power for lifts, common area	(4x500 KVA) 2000 KVA capacity is
	illumination and for domestic use should be of	proposed for power back up (upto final
	enclosed type and conform to rules under the	phase of the project). DG sets will be of
	Environment (protection) act, 1986. The location	"enclosed type" and equipped with acoustic
	of the DG sets should be in the basement as $% \left(1\right) =\left(1\right) \left(1\right) \left($	enclosures to minimize the emission and
	promised by the project proponent with	the adequate stack height for proper
	appropriate stack height i.e above the roof level	dispersion. The installation of DG sets shall
	as per the CPCB norms. The diesel for DG set	be done in phased manner.
	should be of low sulphur contents (maximum up	-
	to 0.25%)	
f.	Ambient noise level should be controlled to	✓ Green belt has been developed for
·	ensure that it does not exceed the prescribed	reduce Ambient Noise along
·	standards both within and at the boundary of the	periphery.
	proposed ware house complex.	✓ D.G. sets will be kept in acoustic
	•	enclosures
	The majority of 1 11 in the second	
g.	The project proponent should maintain at least	Green belt has been developed as per the
	32.28% as green cover area for tree plantation	enclosed Green Belt development Plan as
	especially all around the periphery of the project	Annexure-14.
	and on the roadsides preferably with local	
	species so as to provide protection against	
	particulates and noise. The open spaces 10.28%	
	inside the plot should be preferably landscaped	
	and covered with vegetation/grass, shrubs and	
	herbs. Only locally available plants species shall	
	be used.	
h.	Weep holes in the compound front walls shall be	The weep holes at adequate interval are
	provided to ensure natural drainage of rainwater	planned along boundary wall along with
	in the catchment area during the monsoon	filter & protection media. This shall be
	period.	implemented in phased manner, wherever
		the formation work is completed alongside
		boundary wall. Phase-1 weep holes & filter
		media are complete.
		are complete.

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i. Rain water harvesting for roof run off and surface run off, as per plan submitted should be implemented. Before recharging the surface run off, pre treatment through sedimentation tanks must be done to remove suspended matter, oil and grease. The bore well for ground water recharging should be kept at least 5 mts. above the highest ground water table.
j. The ground water levels and its quality should be

As ensured, same will be developed as per submitted RWH Plan. Kindly refer above enclosed as Annexure-9(A) & (B).

The ground water levels and its quality should be monitored regularly in consultation with Central Ground Water Authority.

The ground water level & quality samples will be monitored regularly.

k. Sufficient parking should be provided within the project boundary and in no case loading, unloading, waiting etc. is allowed on public road/space outside project boundary.

Sufficient parking space has been developed in project boundary for loading, unloading, waiting etc. as per the terminal development plan. Please refer Annexure – 9 (A).

l. A report on the energy Conservation measures conforming to energy conservation norms finalized by bureau of energy efficiency should be prepared incorporating details about building material and technology, R & U factors etc. and submitted to the SEIAA, Haryana in three months time.

The Energy Conservation report is under preparation and shall be submitted, earliest.

m Energy conservation measures like installation of CFLs/TFLs for llighting the areas outside the building should be integral part of project design and should be in place before project commissioning. Used CFLs & TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid Mercury contamination. Use of solar panels must be adapted to maximum extent possible for energy conservation.

Energy conservation measures:

- Passive Solar designs refer to the use of Sun's energy for the heating and cooling of living spaces is dovetailed.
- ✓ Public areas are cooled by natural ventilation as opposed to air conditioning
- Feasibility for installation of solar photovoltaic cells for street lighting is being assessed.

implemented. Vuse of Solar backed LED landscalights instead of par lamps standalone areas is planned. N. The solid waste generated should be properly collected & segregated as per the requirement of the MSW Rules, 2000 and as amended from time to time. The biodegradable waste should be composted by vermi-composting at the site ear marked within the project area and dry/inert solid waste should be disposed off to the approved sites for land filing after recovering recyclable material. O. The provision of the solar heating system shall be as per norms specified by HAREDA and shall be made operational in each building block. implemented. Vuse of Solar backed LED landscalights instead of par lamps standalone areas is planned. Solid waste generation will be collect from designated locations and segregatinto inorganic and organic biodegradable wastes (wavegetables, foods etc.) will be treated vermi composting in the project premi for conversion into manure. Alternative the waste shall be disposed through authorized vendors. O. The provision of the solar heating system shall be made operational in each building block. Provision for Solar Heating system will as per HAREDA specified norms. Passive Solar designs refer to the use Sun's energy for the heating and cool of living spaces The orientation of the building works.	collected & segregated as per the requirement of the MSW Rules, 2000 and as amended from time to time. The biodegradable waste should be composted by vermi-composting at the site ear marked within the project area and dry/inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material. O. The provision of the solar heating system shall be as per norms specified by HAREDA and shall be		nd Ware House (Logistic) Project k Baghola, Distt. Palwal, Haryana	Compliance Status Report (October 2014-March 2015)
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✓ The orientation of the building wo	the already existing tube wells for domestic purposes only after getting permission from			Sun's energy for the heating and cooling
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be done in such a manner that most	the already existing tube wells for domestic purposes only after getting permission from			be done in such a manner that most o
glazed areas in north and east	the already existing tube wells for domestic purposes only after getting permission from			glazed areas in north and east
p. The project proponent shall use the water from The area falls under 'safe' category as p	purposes only after getting permission from	p. The project p	onent shall use the water from	The area falls under 'safe' category as pe
the already existing tube wells for domestic the ground water assessment carried		the already	ing tube wells for domestic	the ground water assessment carried ou
purposes only after getting permission from by CGWA. The total requirement of grou	CGWA during operational phase.	purposes on	fter getting permission from	by CGWA. The total requirement of groun
CGWA during operational phase. water is restricted to 123 Cum.		CGWA during	rational phase.	water is restricted to 123 Cum. Th
approval of CGWA copy regarding the sa				approval of CGWA copy regarding the sam
is enclosed as Annexure-6 .				is enclosed as Annexure-6.

The project proponent shall adopt adequate air | Appropriate traffic policy & parking plan

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Inland Container Depot and Ware House (Logistic) Project	
located at Village-Janoli & Baghola, Distt. Palwal, Haryana	

	pollution control measures to mitigate the air	will be developed to avoid congestion as
	pollution problems and also ensure to provide	per the Traffic and parking Plan enclosed
	sufficient space for parking of vehicles to avoid	above as Annexure-9 (A).
	any congestion on the road during peak season.	,
	Parking space should be calculated keeping in	
	mind that much more space is required for trucks	
	to turn and move as compared to smaller	
	vehicles.	
r.	The project proponent shall ensure that no dust	We ensure that dust suppression will be
	is raised even during peak season operation	done and NAAQS standards will be followed
	phase. NAAQS standards must be maintained	in both phases.
	during both construction and operation phase.	•
s.	The project proponent shall check the last 100	The Project Site is at located in village janoli
	years highest flood level, so that facility is not	and Baghola which is at a distance of
	prone to water logging.	approx. 15 km in West from the Yamuna
		flood prone area and project will have
		proper drainage system and rain water
		harvesting system to accumulate rainfall
		website. Thus the facility shall not be prone
		to water logging issue. HFL as per records is
		189.47m while the terminal level is 199.86
		m. (Refer Annexure-15)
t.	The project proponent is proposing for the	Proper arrangement for disposal of waste
	storage of many types of materials including	will be done as per procedure in vouge.
	perishable items, so proper arrangement for	
	disposal of waste shall be made.	
u	Pollution control measures for oil/diesel waste	Vehicles shall be ensured to have a valid
	due to large no of trucks involved in	PUC certificate.
	transportation shall be made.	
v	Scheme of fire fighting shall be got approved	Approved plan attached. (Refer Annexure-
	from the concerned authority and shall be	16)
	completed before commissioning the project.	
V	A31	The Hazardous waste will be used oil from
.	waste (management & handling) rules, 2008 and	DG sets which will be stored in HDPE (High-
	manufacture & storage & import of hazardous	density Polyethylene) drums in isolated
L		

Inland Container Depot and Ware House (Logistic) Project	Compliance Status Report
located at Village-Janoli & Baghola, Distt. Palwal, Haryana	(October 2014-March 2015)

	4000	1 6 134
	chemical rules, 1989 as amended up to date	covered facility. This used oil will be
	before commissioning of the project.	disposed to authorized recyclers. Whenever
		we plan to handle hazardous cargo in the
		terminal separate permission shall be
		taken, Fire Safety arrangement and waste
		disposal shall be planned, as per the rules.
x.	Standard for discharge of environmental	Standard for discharge of environmental
	pollutants as enshrined in various schedules of	pollutants is being complied while during
	rule 3 of Environment Protection Act, 1986 shall	construction and shall be followed during
	be complied with.	the operational phase as well.
y.	The project proponent shall ensure that road	It shall be ensured that Vehicles reaching
	connecting national highway to the site is not	to Warehouse site have valid PUC
•	damaged due to heavy (over loaded) traffic	certificate and the Road connecting to
	movement. All vehicles coming to ware house	Highways shall not be damaged due to
	site shall be well maintained and their emission	heavy traffic movement.
	shall be within the CPCB norms.	
z.	Monitoring of sound PM10, PM2.5, ground water	We are regularly monitoring all the
	and other emissions shall be done on monthly	mentioned parameters on monthly basis in
	basis in the abadi area near the project site.	the abadi area i.e; village Janouli near the
		project site. Refer Report as Annexure-17.
а	The project proponent shall avoid use of fresh	Treated water will be used for horticulture
a.	ground water for horticulture purpose. Instead	purpose and fresh water will not be used.
	treated water shall be used with the help of drip	
	irrigation and low water consuming species.	
а	No leachate of chemicals is allowed on the	Agreed and Noted.
b.	project site.	

Part - B. General Conditions:

S. No.	Conditions	Compliance Report
i.	The project proponent shall ensure the	Noted & Agreed
	commitments made in Form-1, form 1 A,	
	EMP and other documents submitted to the	
	SEIAA for the protection of environment and	
	proposed environmental safeguards are	

Inland Container Depot and Ware House (Logistic) Project	Compliance Status Report
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located at Village-Janoli & Baghola, Distt. Palwal, Haryana	(Octobor sous Mouse pass)
O	(October 2014-March 2015)

	compiled with in letter and spirit	
ii.	Six monthly compliance reports should be	Six monthly compliance reports will be
	submitted to the HSPCB and Regional Office,	regularly submitted to respective authority.
	MOEF, GOI, Northern Region, Chandigarh and	
	copy to the SEIAA, Panchkula Haryana	
iii.	The SEIAA, Haryana reserves the right to add	Noted & Agreed.
•	the additional safeguard measures	
,	subsequently, if found necessary.	
	Environmental clearance granted will be	
	revoked if it is found that false information	
	has been given for getting approval of the	
	project. SEIAA reserves the right to revoke	
	the clearance if conditions stipulated are not	
	implemented to the satisfaction of	
	SEIAA/MOEF.	
iv.	The project proponent shall start	NOC from Forest department is already
	construction only after getting NOC from the	enclosed above as Annexure-8.
	forest department that the area under	
	consideration does not fall under section- 4	
	and 5 of PLPA- 1900	
v.	All other statutory clearances such as the	NOC from Forest Department is already
	approval for the storage of diesel from Chief	C
	Controller of Explosives, Fire Department,	
	Civil Aviation Department, Forest	
	Conservation Act, 1980, and Wildlife	
	(Protection) Act, 1972, Forest ACT, 1927 etc.	
	shall be obtained, as applicable by	
	proponents from the respective authorities	
	prior to construction of the project.	777
vi.	Under the provisions of Environment	Agreed
	(protection) act, 1986, legal action shall be	
	initiated against the project proponent if it is	

Inland Container Depot and Ware House (Logistic) Project	Compliance Status Report
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	found that the construction of the project has	***************************************
	• •	
	been started before taking environmental	
	clearance.	
vii.	The project proponent should inform the	A copy of Advertisement given in local
	public that the project has been accorded	newspaper is enclosed as Annexure-18.
	environmental clearance by the SEIAA and	
	copies of clearance letter available with the	
	State Pollution Control Board & SEIAA. This	
	should be advertised within 7 days from the	and the second s
	date of issue of the clearance letter at least in	S.
	two local newspapers that are widely	
	circulated in the region and the copy of same	,
	should be forwarded to SEIAA, Haryana.	
viii.	Any appeal against the this environmental	Agreed.
	clearance shall lie with the national green	
	tribunal, if preferred, within a period of	
	30days as prescribed under section 16 of The	
	National Green Tribunal Act, 2010	,
ix.	The fund ear marked for the environment	Noted & Agreed.
	protection measures should be kept in	
	separate account and should not be diverted	
	for other purposes and year wise expenditure	
	shall be reported to the SEIAA/RO MOEF GOI	
	under rules prescribed for Environment	
	Audit.	

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Inland Container Depot and Ware House (Logistic) Project
located at Village-Janoli & Baghola, Distt. Palwal, Haryana

PART II

Environmental Monitoring Report



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2.1 AMBIENT AIR QUALITY MONITORING

2.1.1 Ambient Air Quality Monitoring Stations

Ambient air quality monitoring has been carried out at four locations; one is at the project site (near Site Office), Downwind Direction (near Main Gate), Upwind Direction (near Logistic Tower) and another one is at Village- Janouli to assess the ambient air quality. This will enable to have a comparative analytical understanding about air quality and the changes in the air environment in the study area with respect to the condition prevailing. The locations of the ambient air quality monitoring stations are given in Table 2.1.

Table 2.1 Details of Ambient Air Quality Monitoring Stations

S. No.	Location Code	Location Name/ Description
1.	AAQ-1	Project Site (near Site Office)
2.	AAQ-2	Downwind direction (near Main Gate)
3.	AAQ-3	Upwind Direction (near Logistic Tower)
4.	AAQ-4	Village- Janouli

2.1.2 Ambient Air Quality Monitoring Methodology

Monitoring was conducted in respect of the following parameters:

- Particulate Matter (PM 2.5)
- Particulate Matter (PM 10)
- Sulphur dioxide (SO₂)
- Nitrogen dioxide (NO₂)

The duration of sampling of PM2.5, PM10, SO_2 and NO_2 was 8 hourly sampling per day. The monitoring was conducted for eight hours at each location. This is to allow a comparison with the National Ambient Air Quality Standards.

Ambient Air Quality monitoring was carried out as per the CPCB guidelines and analyze as per IS: 5182. The techniques used for ambient air quality monitoring and minimum detectable levels are given in **Table 2.2**.

Inland Container Depot and Ware House (Logistic) Project	Compliance Status Report
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Table 2.2 Monitoring Method and Other Details

Attributes		Sampling		Measurement	
	igi — V — (Exp Experiencement		Duration	Instrument Used	Method
Particulate	Matter	(PM10)	### *** ** * * * * * * * * * * * * * *		IS: 5182 (P-23), 2006
μg/m3				Repairable Dust	
Particulate	Matter	(PM2.5)	8 Hourly	Sampler along	PM 2.5 Sampler
μg/m3				with gaseous	(Gravimetric)
Sulphur	Dioxide	(SO2)		attachment and	IS: 5182 (P-2), 2001
μg/m3				fine particulate	
Nitrogen	dioxide	(NO ₂)	-	sampler.	IS: 5182 (P-6), 1975
μg/m3	. ,	1			Reffirmed-1998

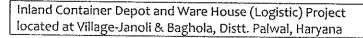
2.1.3 Results of Ambient Air Quality Monitoring

The detailed on-site monitoring results of PM 2.5, PM 10, SO₂ and NO₂ are presented in Table 2.3

Table 2.3
Ambient Air Quality Monitoring Results of current monitoring
(Oct. 2014 to March 2015)

S.	Locn.	Location	(PM _{2.5})	(PM ₁₀)	NO2	SO ₂
No.	Code	ones and the second of the second	(µg/m³)	(μg/m³)	(μg/m³)	(μg/m³)
1.	AAQ-1	Project Site (near Site Office)	41.86	86.98	24.39	10.87
2.	AAQ-2	Downwind Direction (near Main Gate)	41.60	91.33	31.22	10.49
3.	AAQ-3	Upwind Direction (near Logistic Tower)	37.50	83.78	25.41	10.87
4.	AAQ-4	Village - Janouli	40.32	84.63	24.39	10.25
*NA	AQS		60	100	80	80

^{*}NAAQS - National Ambient Air Quality Standards



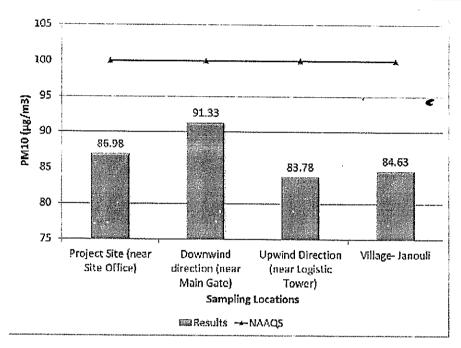


Fig: 2.1 Graph Showing the Results of Ambient Air Quality - PM10

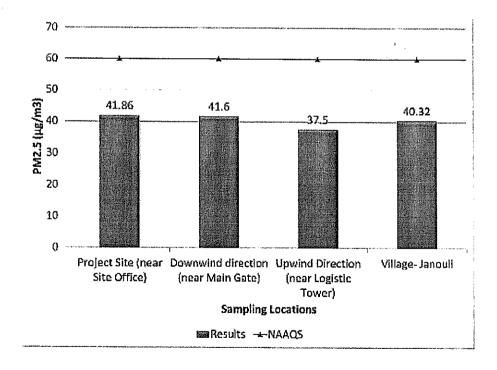


Fig: 2.2 Graph Showing the Results of Ambient Air Quality - PM2.5

Compliance Status Report Inland Container Depot and Ware House (Logistic) Project located at Village-Janoli & Baghola, Distt. Palwal, Haryana (October 2014-March 2015) 90 80 70 60 50 40 30 20 10.87 10.25 10.87 10.49 10 0 Upwind Direction Village-Janouli Downwind Project Site (near (near Logistic Site Office) direction (near Tower) Main Gate) Sampling Locations

Fig: 2.3 Graph Showing the Results of Ambient Air Quality - SO2

■Results → NAAQS

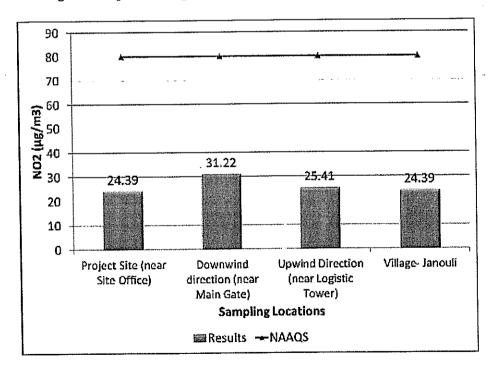


Fig: 2.4 Graph Showing the Results of Ambient Air Quality - NO2

2.1.4 Discussion on Ambient Air Quality in the Study Area

The air quality monitoring parameters (PM10, PM2.5, SO2, NO2) were observed within

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the prescribed limits by NAAQS at all monitoring locations. Station wise variation of ambient air quality parameters has been pictorially shown in Fig., 2.1; 2.2; 2.3; 2.4

2.2 AMBIENT NOISE MONITORING

2.2.1 AmbientNoise Monitoring Locations

The main objective of noise monitoring in the study area is to assess the present ambient noise levels. A preliminary reconnaissance survey has been undertaken to identify the major noise generating sources in the area. Ambient noise monitoring was conducted at 4 locations at the boundary of the project site as given in **Table 2.4**.

Table 2.4 Details of Ambient Noise Monitoring Stations

S. No.	Location Code	Location Name/Description
1.	NQS-01	Project Site
2.	NQS-02	Near Construction Area
3.	NQS-03	Village - Janouli
4.	NQS-04	Residential Area (Colony)

2.2.2 Methodology of Noise Monitoring

Noise is defined as unwanted sound that create interferences in speech communication, causes annoyance, disturbance in work concentration and sleep, thus deteriorating quality of Noise environment. In the present study Noise monitoring undertaken at 4 locations.

Since loudness of sound is the important parameter to access the effects of particular activities on human being, and for noise environment assessment that must be taken into the account. Hourly Sound Pressure Level (SPL) was recorded with Sound level Meter (Envirotech SLM 100) for 24 hours. The Leq value has been computed from SPL readings taken at uniform time intervals from the relation as under:

$$L_{eq} = 10 \log 1/n \sum_{n_{1=1}}^{n_{1=1}} 10^{SPL/10}$$

2.2.3 Results of Ambient Noise Monitoring

The location wise ambient noise monitoring results is summarized in **Table 2.5**. The location-wise variation of noise levels are graphically presented in **Figure 2.5& 2.6**

Inland Container Depot and Ware House (Logistic) Project Compliance Status Report located at Village-Janoli & Baghola, Distt. Palwal, Haryana (October 2014-March 2015)

Table 2.5

Ambient Noise Monitoring Results of current monitoring (Oct. 2014 March 2015)

	on: Location Detail	Shift	Parameters		
Monitoring Locations			L _{max}	Lmin	L _{eq}
in the second		Day Time	79.20	46.00	55.50
NQS-01	Project Site	Night Time	53.90	38.40	45.78
A Company	Near Construction	Day Time	76.00	46.10	58.10
NQS-02	Area	Night Time	54.20	40.30	47.30
	Village - Janouli	Day Time	69.20	38.40	54.00
NQS-03		Night Time	49.20	38.20	41.86
		Day Time	67.30	42.30	53.40
NQS-03	Residential Area (Colony)	Night Time	49.30	38.30	43.40
CPCB Limits for		Day Time			55
Residential Area		Night Time	-	-	45
CPCB Limits for		Day Time	-		75
Industrial Area		Night Time	-	-	70

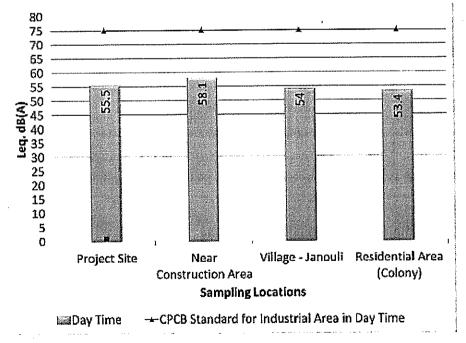


Fig: 2.5 Graph Showing the Results of Ambient Noise Monitoring during Day Time

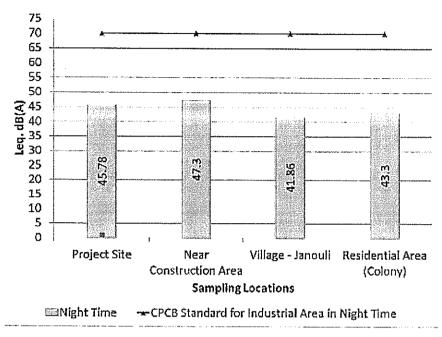


Fig: 2.6 Graph Showing the Results of Ambient Noise Monitoring during Night Time

2.2.4 Discussion on Ambient Noise Levels in the Study Area: -

The location-wise variation of noise levels are graphically presented in Figure 2.5&2.6 It is observed that the L_{eq} values during day time and night time are within the prescribed limits by CPCB - Ambient Standards for noise $\ .$

2.3 WATER QUALITY ANALYSIS

Water is the most important natural resources. In order to assess the water quality, three water sample one from Bore well and another from RO, were collected from the Project site and Physico-Chemical examination was undertaken by Standard methods (American Public Health Association -APHA/ and the Bureau of Indian Standards -BIS). Bacterial examination was carried out to identify the microbiological contamination in source.

2.3.1 Methodology of water Quality Monitoring

Sampling of water was carried out on March 2015. Samples were collected as grab sample and sampling forms are filled in as per the sampling plan. The preservative sample were properly added to preserve as per standard operating procedures (SOP) and stored immediately in ice boxes, which were ensured for appropriate temperatures. Sample for chemical analysis was collected in polyethylene carboys. Sample collected for metal

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content were acidified to <2 pH with 1 ml HNO₃. A sample for bacteriological analysis was collected in sterilized glass bottles.

The analytical techniques and the test methods & sampling results are enclosed as Annexure-3

2.3 SOIL MONITORING

2.4.1 Soil Monitoring Locations

The objective of the soil monitoring is to identify the impacts of ongoing project activities on soil quality and also predict impacts, which have arisen due to execution of various constructions allied activities. Accordingly, a study of assessment of the soil quality has been carried out.

To assess impacts of ongoing project activities on the soil in the area, the physico-chemical characteristics of soils were examined by obtaining soil samples from selected points and analysis of the same. Three samples of soil were collected from the project site, vill-Janouli & vill – Baghola for studying soil characteristics.

2.4.2 Methodology of Soil Monitoring

The sampling has been done in line with IS: 2720 & Methods of Soil Analysis, Part-1, 2nd edition, 1986 of American Society for Agronomy and Soil Science Society of America. The homogenized samples were analyzed for physical and chemical characteristics (physical, chemical and heavy metal concentrations). The soil samples were collected in the month of March 2015.

The samples have been analyzed as per the established scientific methods for physicochemical parameters. The heavy metals have been analyzed by using Atomic Absorption Spectro-photometer and Inductive Coupled Plasma Analyzer.

2.4.3 Soil Monitoring Results

Three samples of soil were collected from the project site, vill- Janouli&vill - Bagholato check the quality of soil of the study area. The physico-chemical characteristics of the soil, as obtained from the analysis of the soil sample, are enclosed as **Annexure-3**

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