

BAPL/DGP/APT(OPS)/L/ENV/2016-17/139

15th Nov, 2016

To

The Director (IA)
Ministry of Environment & Forest
Paryavaran Bhawan,
CGO Complex, Lodhi Road,
New Delhi-110 003

Subject: Environmental Clearance for the Development of Domestic Airport & Aerotropolis Complex at Andal, District Burdwan, West Bengal by M/s. Bengal Aerotropolis Projects Limited- Project Environment Monitoring Report.

Dear Sir,

This has reference to your letter no. 10-119/2008-IA.III dated 05.02.2010 vide which Bengal Aerotropolis Projects Limited has received Environmental Clearance for the development of a Domestic Airport & Aerotropolis Complex at Andal, West Bengal. BAPL has received 'Consent to Establish' from West Bengal Pollution Control Board vide memo no. 417 2N-07/2009 (E) dated 30-06-2010 and 'Consent to Operate' from West Bengal Pollution Control Board vide memo no. 175-7/WPBD-Cont.(6784)/15dated 22-09-2015 and extended further vide memo no. 1451-7/WPBD-Cont.(6784)/15 dated 10-08-2016.

As per the stipulated condition mentioned in the letter of MoEF the project proponent shall submit six monthly reports on the status of compliance of the stipulated EC conditions including result of monitored data to the respective Regional Office. With respect to this stipulated Environmental Clearance conditions, BAPL has engaged WBPCB approved laboratory to collect the samples for environmental monitoring for Ambient Air Quality, Noise etc. which has already been intimated to you vide our letter ref no. BAPL/DGP/AIRPORT(PI)/L/ENV/10-11/355 dated 30-08-2010.

In view of above we are forwarding 13th Environmental Monitoring Reports received from WBPCB approved laboratory and the status report to you for your information.

Thanking you for your continued co-operation.

For Bengal Aerotropolis Projects Limited

Apurva Sharma
General Manager-Operations(Airside)

Enclosures:

1. Environmental Monitoring Reports as Annexure- I (18 pages and Soft copy in CD)
2. Status Report as Annexure-II (3 Pages) 2015 to -2016

Copy to:

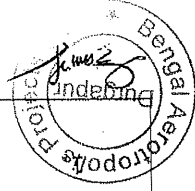
1. The principal Secretary, Environment Department, Govt. of West Bengal, Writers Building, Kolkata-700001.
2. The Member Secretary, West Bengal Pollution Control Board, Bldg No. 10-A, Block L-A, Sector III, Salt Lake City, Kolkata-700098.
3. The CCF, Regional Office, Ministry of Environment & Forest (EZ), A/3, Chandrasekharapur, Bhubaneswar, Orissa, 751023
4. IA-Division, Monitoring Cell, MoEF, New Delhi-110003

Bengal Aerotropolis Projects Limited
CIN - U35303WB2007PLC117120

Airport Office : Kazi Nazrul Islam Airport, SCB Building, VIII & PO : Khandra, Block: Andal,
Dist: Bardhaman, Pin: 713363
Phone: 0341-6670304, 6670320, Tele Fax: 0341-266-3397
Durgapur City Office : MINAV-29, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216
Phone: 0343-254-4649/50, 0343-320-1488
Registered Office : 5, Gorky Terrace, 1st Floor, Kolkata-700017, Phone: 033-4020-1753, Fax: 033-4020-1750
Website : www.bengalaero.com, www.sujalamskycity.com, Email : corporate@bengalaero.com

STATUS-POST ENVIRONMENT CLEARANCE (EC) FOR AIRPORT
(April 2016 to Sep 2016)

Event No.	Specific Condition	Status
1.	All the details submitted vide letters dated 01.10.2010, 20.10.2010 and 18.11.2010 and presentations made during the Expert Appraisal Committee meetings held on 25 th -26 th November 2008, 19 th - 20 th December 2008, 17 th -18 th September 2009, 29 th -30 th October 2009 and 23 rd -24 th November 2009 shall be strictly complied with.	Complied, Being Followed
2.	A Garland drain shall be constructed to catch the runoff from the North-West side of the surrounding area.	Complied – Garland drain has been constructed & Operationalized
3.	All the assurances and action plan on the issues raised during the public hearing shall be strictly implemented.	It is being followed
4.	The entry-exit to the airport should not pass through the township. A Signal free access shall be provided.	The free entry-exit to the airport from National Highway has completed in Apr 2015
5.	Necessary flyover and underpasses shall be provided at the junction of National Highway, so that during construction and operation of airport and township so that there shall be no obstruction on Highway traffic.	Required approval has been accorded from National Highway Authority of India (NHAI) vide their letter no. 15017/1/2008/PIU(DUP)/5994 dated 04-09-2010
6.	Non-degradable waste shall be disposed as per the CPCB guidelines and no incineration shall be carried out within the complex. E-waste shall be disposed to an authorized agency.	GEPL and Ramkey already agreed to extend their support.
7.	Possibility shall be examined to treat and convert the biodegradable solid waste in to manure to be used within the airport complex.	No major solid biodegradable solid waste is generated. However, possibility being explored to convert the same into manure to be used within the airport complex.
8.	Necessary sound barriers with modern absorbing materials shall be installed to cut down the noise during takeoff and landing.	Possibility is being explored to provide sound barrier, if required to keep noise level within the prescribed limit.
9.	All the management plans envisaged in the EIA and EMP shall be strictly followed.	All management plan is being followed.
	General Conditions	
	The construction of the structures shall be undertaken as per the plans approved by the concerned local authorities /local administration, meticulously conforming to the existing local and central rules and regulations.	Complied



11.	The project proponent shall inform the regional offices as well as Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of and development work.	Consent to Establish accorded from West Bengal Pollution Control Board on 30.06.2010 and further extension granted till May 2019. Land development work is in progress.
12.	West Bengal Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's office/Tehsildar's Office for 30 days.	--
13.	The environment safe guards contained in the EIA report should be implemented in letter and spirit.	It will be followed
Other Conditions		
1.	Submission status reports of EC to Regional office of MoEF and Zonal Office of CPCB and SPCB.	Complied
2.	Uploading the status of EC and monitoring data on the company website-Same data to be forwarded to concerned MOEF, CPCB, SPCB.	Complied
3.	Display of SPM, RSPM, SO ₂ , NO _x (ambient level as well as stack emission) etc. at a convenient location near main gate of the company in the public domain.	Complied
4.	Submission of Form V to State Pollution Control Board and copy to regional MoEF. Display in the company website.	Complied



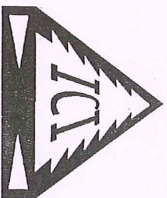


ISO / IEC 17025:2005

Certificate No.

T-1835 (Chemical)

NABL ACCREDITED LABORATORY



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ISO/IEC 17025:2005, ACCREDITED BY NABL, DEPARTMENT OF SCIENCE AND TECHNOLOGY,
GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL, MECHANICAL AND BUILDING MATERIALS TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India
Report No. : ICI/A/H-16-17/871
Issued To : M/s. Bengal Aerotropolis Projects Limited
Address : City Office: MNAV-29, Bengal Ambuja Housing,
Complex, City Centre, Durgapur - 713 216.
Site Office: Mouza-Khandra, Ukhra, Amluka,
Banguri, Patsaora, Dakshin Khanda, P.S.-Andal &
Faridpur, Burdwan.

Sample Ref. No. : A/H/871
Report Date : 22.09.16
Date of Sampling : 15.09.16
Analysis Started on : 21.09.16

Analysis completed on : 21.09.16
Time of Sampling : 01:05 PM

Sample Description : Stack Air
Location : D.G. Set (1250 KVA)
Sample Condition : In Glass Microfibre Thimble & Plastic Bottle
Sampling Method : CPCB, Emission Regulation (Part III)
Test Method : CPCB, Emission Regulation (Part III), IS: 11255 (Part -1), 1985, Reaffirmed 2003, IS: 11255 (Part -3), 2008, IS: 11255 (Part -2), 1985, Reaffirmed 2003, ORSAT Method, EPA Method No. - 7

A.1 GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant		Shape of Stack	
Stack attached to	D.G. Set (1250 KVA)	Material of Construction	Circular
Emission due to	Combustion of H.S.D	Stack ID at sampling point (M)	M.S.
Fuel Used	H.S.D	At Bottom (M)	0.46
Rated Fuel Consumption	190 Lit/Hr.	At Top (M)	-
Working Fuel Consumption	190 Lit/Hr.	Height Details :	
Calorific Value(Kcal/kg)	-	a) Total Ht. Of stack from GL(M)	30.0
		b) Total Ht. Of stack from RL(M)	-
		c) Ht. of sampling port from GL(M)	-
		d) Ht. of port from disturbance zone (M)	-
Sulphur Content (% by Wt)	-		
Ash Content (% by Wt.)	-		
Pollution Control Device	Nil		
Whether Stack is provided with permanent Platform / Ladder :	Temporary		

B.1 PHYSICAL DATA:

Flue Gas Temperature (°C)	131	D.G. Capacity :	
Barometric Pressure (mm.Hg)	748	a) Rated	-
Velocity of Gas flow (m/s)	12.17	b) Running	-
Quantity of Gas flow (Nm ³ /hr)	5179.71	Load :	
Pressure	-	a) Rated	-
		b) Running	-

C.1 RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained
01.	Particulate Matter (mg/Nm ³)	72.0
02.	Particulate Matter Normalized to 12% CO ₂ (V/V) - (mg/Nm ³)	-
03.	Sulphur di-oxide (mg/ Nm ³)	419.83
04.	NOx (mg/m ³)	199.68
05.	CO % (V/V)	<0.2
06.	CO ₂ % (V/V)	7.2

Checked By :

End of Report

For, Indicative Consultant India

Parbat Ghosh
(Manager Laboratory)
Signatory Authority

- Note : 1. Test results shown in this test report relate only to the item tested.
2. This test report shall not be reproduce anywhere except in full and in same format without the approval of the laboratory.
3. Retention period of tested samples (Thimble) is 6 months from the date of issue of test report unless otherwise specified.
4. All general informations of stack are provided by the party.

Manager Lab, Tmv. Div.
Indicative Consultant India



ISO / IEC 17025:2005

Certificate No.

T-1835 (Chemical)

NABL ACCREDITED LABORATORY

S.S.I. Reg. No. 190192100010

(CONSULTANT, SURVEYOR & REGD. TEST HOUSE)

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GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL, MECHANICAL AND BUILDING MATERIALS TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No.

IC/I/A/H/16-17/872

Issued To

M/s. Bengal Aerotropolis Projects Limited

Address

City Office: MN/AV-29, Bengal Ambuja Housing,
Complex, City Centre, Durgapur - 713 216.
Site Office: Mouza-Khandra, Ukhra, Amluka,
Banguri, Patsaora, Dakshin Khanda, P.S.-Andal &
Faridpur, Burdwan.

Sample Ref. No.

A/H/872

Report Date

22.09.16

Date of Sampling

15.09.16

Analysis Started on

21.09.16

Analysis completed on

21.09.16

Time of Sampling : 03:00 PM

Sample Description
Location
Sample Condition
Sampling Method
Test Method

D.G. Set (500 KVA)
In Glass Microfibre Thimble & Plastic Bottle
CPCB, Emission Regulation (Part III)
CPCB, Emission Regulation (Part III), IS: 11255 (Part -1), 1985, Reaffirmed 2003, IS: 11255 (Part -3)
2008, IS: 11255 (Part -2), 1985, Reaffirmed 2003, ORSAT Method, EPA Method No. - 7

A.1 GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant		Shape of Stack	Circular
Stack attached to	D.G. Set (500 KVA)	Material of Construction	M.S.
Emission due to	Combustion of H.S.D	Stack ID at sampling point (M)	0.20
Fuel Used	H.S.D	At Bottom (M)	-
Rated Fuel Consumption	80 Lit/Hr.	At Top (M)	-
Working Fuel Consumption	80 Lit/Hr.	Height Details:	9.0
Calorific Value(Kcal/kg)	-	a) Total Ht. Of stack from GL(M)	-
		b) Total Ht. Of stack from RL(M)	-
		c) Ht. of sampling port from GL(M)	-
		d) Ht. of port from disturbance zone (M)	-
Sulphur Content (% by Wt)	-		
Ash Content (% by Wt.)	-		

Pollution Control Device : Nil

Whether Stack is provided with permanent Platform / Ladder : Temporary

B.1 PHYSICAL DATA:

Flue Gas Temperature (°C)	201	D.G. Capacity:	
Barometric Pressure.(mm Hg)	748	a) Rated	-
Velocity of Gas flow (m/s)	11.03	b) Running	-
Quantity of Gas flow (Nm ³ /hr)	760.07	Load :	-
Pressure	-	a) Rated	-
		b) Running	-

C.1 RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained
01.	Particulate Matter (mg/Nm ³)	54.0
02.	Particulate Matter Normalized to 12% CO ₂ (V/V) - (mg/Nm ³)	-
03.	Sulphur di-oxide (mg/ Nm ³)	231.34
04.	NO _x (mg/m ³)	153.94
05.	CO % (V/V)	<0.2
06.	CO ₂ % (V/V)	6.8

End of Report

For, Indicative Consultant India

Checked By

Parbat Sarkar
(Manager Laboratory)
Signatory Authority

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4. All general informations of stack are provided by the party.

Indicative Consultant India

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ISO/IEC 17025:2005, ACCREDITED BY NABL, DEPARTMENT OF SCIENCE AND TECHNOLOGY,
GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL, MECHANICAL AND BUILDING MATERIALS TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No.	: ICI/A/16-17/BAPL/168	Sample Ref. No.	: BAPL/168
Issued To	: M/s. Bengal Aerotropolis Projects Limited	Report Date	: 29.09.16
Address	: City Office: MNAV-29, Bengal Ambuja Housing, Complex, City Centre, Durgapur - 713 216. Site Office: Mouza-Khandra, Ukhra, Amluka, Banguri, Patsaora, Dakshin Khanda, P.S.-Andal & Faridpur, Burdwan.	Date of Sampling	: 20.09.16 to 21.09.16
		Analysis Started on	: 22.09.16
		Analysis completed on	: 29.09.16

Sample Description
Location
Sample Condition
Sampling Method
Test Method

: Ambient Air
: Near East Side of the Project (Amluka Village)
: Glass Microfibre Filter Paper & Plastic Bottle
: CPCB, Emission Regulation (Part III)
: CPCB, Emission Regulation (Part III), IS: 5182 (Part – 23) 2006, USEPA CFR 40(Part- 50):
Appendix L, IS: 5182 (Part – 2):2001, IS: 5182 (Part – 6):2006, Non-Dispersive Infrared
Spectrometry Method, Soxlet Extraction and GC analysis, Atomic Absorption
Spectrophotometric Method, Indophenol Blue Method

Ambient Temperature : 28.0
in °C (Average)

Time of Sampling	Concentration (µg / m ³)							Concentration (ng / m ³)			
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	CO	Benzo(a) Pyrene	As	Ni
11:00 AM to 07:00 PM	86.37	33.62	16.79	32.36	BDL	BDL	BDL	0.0902	BDL	BDL	BDL
07:30 PM to 03:30 AM	79.42	28.89	14.81	30.61	BDL	BDL	BDL	0.1375	BDL	BDL	BDL
04:00 AM to 12:00 PM	74.68	24.97	12.84	27.99	BDL	BDL	BDL	0.3217	BDL	BDL	BDL

Limit: ($\mu\text{g} / \text{m}^3$) Ambient Air Quality standard (National)
PM₁₀=100 $\mu\text{g}/\text{m}^3$, PM_{2.5}=60 $\mu\text{g}/\text{m}^3$, SO₂=80 $\mu\text{g}/\text{m}^3$, NO₂=80 $\mu\text{g}/\text{m}^3$, Lead=1.0 $\mu\text{g}/\text{m}^3$, Ammonia=400 $\mu\text{g}/\text{m}^3$, 24 hours basis, Carbon mono oxide=2 mg/m^3 ,
8hours basis, Benzene=5 $\mu\text{g}/\text{m}^3$, Benzopyrene=1 ng/m^3 , Arsenic=6 ng/m^3 , Nickel=20 ng/m^3 , Annual basis
For, Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area

Ref: National Ambient Air Quality Standards wide Central Pollution Control Board, New Delhi Notification dated 18th November 2009

For, Indicative Consultant India

Checked By

Parbat Golui
(Manager-Laboratory)
Signatory Authority

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3. Retention period of tested samples (Filter Paper) is 6 months from the date of issue of test report unless otherwise specified.

Parbat Golui
Manager-Lab, Env. Div.
Indicative Consultant India

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GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL, MECHANICAL AND BUILDING MATERIALS TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India	Sample Ref. No.	: BAPL/168A	
Report No.	: ICI/A16-17/BAPL/168A	Report Date	: 29.09.16
Issued To	: M/s. Bengal Aerotropolis Projects Limited	Date of Sampling	: 20.09.16
Address	: City Office: MNAV-29, Bengal Ambuja Housing, Complex, City Centre, Durgapur - 713 216. Site Office: Mouza-Khandra, Ukhra, Amluka, Banguri, Patsaora, Dakshin Khanda, P.S.-Andal & Faridpur, Burdwan.	Analysis Started on	: 22.09.16
Sample Description	: Ambient Air	Analysis completed on	: 22.09.16
Location	: Near East Side of the Project (Amluka Village)		
Sample Condition	: Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle		
Sampling Method	: UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. -1)		
Test Method	: Using imported O3 Analyser		

Towards Sustainable Growth

Time	Concentration ($\mu\text{g}/\text{m}^3$)	
	Ozone as O ₃	
11:00 AM to 07:00 PM	32.19	

----- End of Report -----

Limit: ($\mu\text{g}/\text{m}^3$) Ambient Air Quality standard (National)
O₃-100 $\mu\text{g}/\text{m}^3$, 8 hours basis (Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area)

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November 2009

For, Indicative Consultant India

Checked By

Parbati Gohal
(Manager-Laboratory)
Signatory Authority

Parbati Gohal
Manager-lab, Env. Div.
Indicative Consultant India

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GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL, MECHANICAL AND BUILDING MATERIALS TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No.	: ICI/A/16-17/BAPL/169	Sample Ref. No.	: BAPL/169
Issued To	: M/s. Bengal Aerotropolis Projects Limited	Report Date	: 29.09.16
Address	: City Office: MNAV-29, Bengal Ambuja Housing, Complex, City Centre, Durgapur - 713 216. Site Office: Mouza-Khandra, Ukhra, Amluka, Banguri, Patsaora, Dakshin Khandra, P.S.-Andal & Faridpur, Burdwan.	Date of Sampling	: 14.09.16 to 15.09.16
		Analysis Started on	: 22.09.16
		Analysis completed on	: 29.09.16

Sample Description : Ambient Air

Location : Near North Side of the Project (Ukhra Hospital)

Sample Condition : Glass Microfibre Filter Paper & Plastic Bottle

Sampling Method : CPCR, Emission Regulation (Part III)

Test Method : CPCR, Emission Regulation (Part III), IS: 5182 (Part – 23) 2006, USEPA CFR 40(Part- 50): Appendix L, IS: 5182 (Part – 2):2001, IS: 5182 (Part – 6):2006, Non-Dispersive Infrared Spectrometry Method, Soxlet Extraction and GC analysis, Atomic Absorption Spectrophotometric Method, Indophenol Blue Method

Ambient Temperature : 27.0
in °C (Average)

Time of Sampling	Concentration ($\mu\text{g} / \text{m}^3$)						Concentration (ng / m^3)		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	CO	Benzo(a) Pyrene
10:00 AM to 06:00 PM	79.38	28.89	16.79	27.11	BDL	BDL	BDL	0.0795	BDL
06:30 PM to 02:30 AM	75.25	26.22	15.80	25.36	BDL	BDL	BDL	0.1315	BDL
03:00 AM to 11:00 AM	70.17	21.09	12.84	22.74	BDL	BDL	BDL	0.3217	BDL

End of Report

Limit: ($\mu\text{g} / \text{m}^3$) Ambient Air Quality standard (National)
 PM₁₀= 100 $\mu\text{g}/\text{m}^3$, PM_{2.5}=60 $\mu\text{g}/\text{m}^3$, SO₂=80 $\mu\text{g}/\text{m}^3$, NO₂=80 $\mu\text{g}/\text{m}^3$, Lead=1.0 $\mu\text{g}/\text{m}^3$, Ammonia=400 $\mu\text{g}/\text{m}^3$, 24 hours basis, Carbon mono oxide=2 mg/m^3 , 8hours basis, Benzene=5 $\mu\text{g}/\text{m}^3$, Benzopyrene=1 ng/m^3 , Arsenic =6 ng/m^3 , Nickel=20 ng/m^3 , Annual basis
 For, Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area

Ref. National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November 2009
 For, Indicative Consultant India

Checked By
 Parbat Gohai
 (Manager-Laboratory)
 Signatory Authority

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 Paradeep Office : C/o. Dhruva Chandra Sefny Tainighatra, Bijoy Chandrapur, P.O.-Aulhara, Bankai, P.S.-Paradeep, Dist.-Jagatsingpur, Odisha, Mob.: 8116208984, 9830964194



S.S.I. Reg. No.
190192100010



INDICATIVE CONSULTANT INDIA

(CONSULTANT, SURVEYOR & REGD. TEST HOUSE)
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ISO/IEC 17025:2005, ACCREDITED BY NABL, DEPARTMENT OF SCIENCE AND TECHNOLOGY,
GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL, MECHANICAL AND BUILDING MATERIALS TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India
Report No. : ICI/A/16-17/BAPL/169A
Issued To : M/s. Bengal Aerotropolis Projects Limited
Address : City Office: MNAV-29, Bengal Ambuja Housing,
Complex, City Centre, Durgapur - 713 216.
Site Office: Mouza-Khandra, Ukhra, Amluka,
Banguri, Patsaora, Dakshin Khanda, P.S.-Andal
& Faridpur. Burdwan.
Sample Description : Ambient Air
Location : Near North Side of the Project (Ukhra Hospital)
Sample Condition : Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle
Sampling Method : UV Photometric Method / Air Sampling & Analysis 3rd Edition, CPCB Guideline (Vol. - 1)
Test Method : Using imported O3 Analyser

Sample Ref. No. : BAPL/169A
Report Date : 29.09.16
Date of Sampling : 14.09.16
Analysis Started on : 22.09.16

Analysis completed on : 22.09.16

Time	Concentration ($\mu\text{g}/\text{m}^3$)	
	Ozone as O3	
10:00 AM to 06:00 PM	32.15	

----- End of Report -----

Limit: ($\mu\text{g}/\text{m}^3$) Ambient Air Quality standard (National)
O3-100 $\mu\text{g}/\text{m}^3$, 8 hours basis (Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area)

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November 2009

.....
Checked By

For, Indicative Consultant India
Parbatii Gouti
(Manager-Laboratory)
Signatory Authority

Parbatii Gouti
Manager-Lab, Env. Div.
Indicative Consultant India

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Paradeep Office : C/o. Dhuma Chandra Sathy Taminigara, Bijoy Chandrapur, P.O.-Aulhara, Bankai, P.S.-Paradeep, Dist.-Jagatsingpur, Odisha, Mob.: 8116208984, 9830964194



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GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL, MECHANICAL AND BUILDING MATERIALS TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No.	: ICL/A16-17/BAPL/170	Sample Ref. No.	: BAPL/170
Issued To	: M/s. Bengal Aerropolis Projects Limited	Report Date	: 29.09.16
Address	: City Office: MNAV-29, Bengal Ambuja Housing, Complex, City Centre, Durgapur - 713 216.	Date of Sampling	: 19.09.16
	: Site Office: Mouza-Khandra, Ulkhra, Amluka, Banguri, Patsaora, Dakshin Khanda, P.S.-Andal & Faridpur, Burdwan.	Analysis Started on	: 20.09.16
		Analysis completed on	: 22.09.16

Sample Description	: Ambient Air	Analysis completed on	: 29.09.16
Location	: Near South Side of the Project (Tamlu Village)		
Sample Condition	: Glass Microfibre Filter Paper & Plastic Bottle		
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS: 5182 (Part – 23) 2006, USEPA CFR 40(Part- 50): Appendix L, IS: 5182 (Part – 2):2001, IS: 5182 (Part – 6):2006, Non-Dispersive Infrared Spectrometry Method, Soxhlet Extraction and GC analysis, Atomic Absorption Spectrophotometric Method, Indophenol Blue Method		

Ambient Temperature : 28.0
in °C (Average)

Time of Sampling	Concentration (µg / m ³)								Concentration (ng / m ³)		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	CO	Benzo(a) Pyrene	As	Ni
09:00 AM to 05:00 PM	76.84	35.09	15.80	29.74	BDL	BDL	BDL	0.0875	BDL	BDL	BDL
05:30 PM to 01:30 AM	72.07	32.54	12.84	27.99	BDL	BDL	BDL	0.1272	BDL	BDL	BDL
02:00 AM to 10:00 AM	69.86	30.04	11.85	26.24	BDL	BDL	BDL	0.3195	BDL	BDL	BDL

Limit: (µg / m³) Ambient Air Quality standard (National)
PM₁₀=100 µg/m³, PM_{2.5}=60 µg/m³, SO₂=80 µg/m³, NO₂=80 µg/m³, Lead=1.0 µg/m³, Ammonia=400 µg/m³, 24 hours basis, Carbon mono oxide=2 mg/m³, 8hours basis, Benzene=5 µg/m³, Benzopyrene=1 ng/m³, Arsenic=6 ng/m³, Nickel=30ng/m³, Annual basis
For, Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area

Ref : National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November 2009
For, Indicative Consultant India

Checked By

Parbati Gohi

(Manager-Laboratory)
Signatory Authority

Parbati Gohi
Manager-Lab, Env. Div.
Indicative Consultant India

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Kolkata Lab : B1-1/12/21-2, Santoshpur (M) Block-B, Maheshatala, Kol-700 142, Mob: 9434017584, 9836470938, 7797506970
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INDICATIVE CONSULTANT INDIA

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GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL, MECHANICAL AND BUILDING MATERIALS TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No.	: ICI/A/16-17/BAPL/170A	Sample Ref. No.	: BAPL/170A
Issued To	: M/s. Bengal Aerotropolis Projects Limited	Report Date	: 29.09.16
Address	: City Office: MNAV-29, Bengal Ambuja Housing, Complex, City Centre, Durgapur - 713 216.	Date of Sampling	: 19.09.16
	: Site Office: Mouza-Khandra, Ukhra, Amluka, Banguri, Patsaora, Dakshin Khandra, P.S.-Andal & Faridpur. Burdwan.	Analysis Started on	: 22.09.16
Sample Description	: Ambient Air	Analysis completed on	: 22.09.16
Location	: Near South Side of the Project (Tamlra Village)		
Sample Condition	: Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle		
Sampling Method	: UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)		
Test Method	: Using imported O3 Analyser		

Time	Concentration ($\mu\text{g}/\text{m}^3$)
09:00 AM to 05:00 PM	33.15

----- End of Report -----

Limit: ($\mu\text{g}/\text{m}^3$) Ambient Air Quality standard (National)
O₃-100 $\mu\text{g}/\text{m}^3$, 8 hours basis (Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area)

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November 2009

Checked By

For, Indicative Consultant India
Parbati Gohri
(Manager-Laboratory)
Signatory Authority

Parbati Gohri
Manager- Lab. Env. Div.
Indicative Consultant India

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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No.

: ICI/A/16-17/BAPL/171

Sample Ref. No.

: BAPL/171

Issued To

: M/s. Bengal Aerotropolis Projects Limited

Report Date

: 29.09.16

Address

: City Office: MNAV-29, Bengal Ambuja Housing,
Complex, City Centre, Durgapur - 713 216.
Site Office: Mouza-Khandra, Ukhra, Amluka,
Banguri, Patsaora, Dakshin Khanda, P.S.-Andal &
Faridpur, Burdwan.

Date of Sampling

: 15.09.16
to

Analysis Started on

: 16.09.16
22.09.16

Sample Description

: Ambient Air

Analysis completed on : 29.09.16

Location

: Near West Side of the Project (Main Office)

Sample Condition

: Glass Microfibre Filter Paper & Plastic Bottle

Sampling Method

: CPCB, Emission Regulation (Part III)

Test Method

: CPCB, Emission Regulation (Part III), IS: 5182 (Part - 23) 2006, USEPA CFR 40(Part- 50):
Appendix L, IS: 5182 (Part - 2):2001, IS: 5182 (Part - 6):2006, Non-Dispersive Infrared
Spectrometry Method, Soxlet Extraction and GC analysis, Atomic Absorption
Spectrophotometric Method, Indophenol Blue Method

Ambient Temperature : 28.0
in °C (Average)

Time of Sampling	Concentration ($\mu\text{g} / \text{m}^3$)							Concentration (ng / m^3)			
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	CO	Benzo(a) Pyrene	As	Ni
11:40 AM to 07:40 PM	86.55	34.05	17.78	31.49	BDL	BDL	BDL	0.0815	BDL	BDL	BDL
08:10 PM to 04:10 AM	81.39	31.09	14.81	29.74	BDL	BDL	BDL	0.1422	BDL	BDL	BDL
04:40 AM to 12:40 PM	74.35	27.43	11.85	26.24	BDL	BDL	BDL	0.3119	BDL	BDL	BDL

End of Report

Limit: ($\mu\text{g} / \text{m}^3$) Ambient Air Quality standard (National)
PM₁₀=100 $\mu\text{g} / \text{m}^3$, PM_{2.5}=60 $\mu\text{g} / \text{m}^3$, SO₂=80 $\mu\text{g} / \text{m}^3$, NO₂=80 $\mu\text{g} / \text{m}^3$, Lead=1.0 $\mu\text{g} / \text{m}^3$, Ammonia=400 $\mu\text{g} / \text{m}^3$, 24 hours basis. Carbon mono oxide=2 mg / m^3 , 8hours basis. Benzene=5 $\mu\text{g} / \text{m}^3$, Benzopyrene=1 ng / m^3 , Arsenic=6 ng / m^3 , Nickel=20 ng / m^3 , Annual basis
For, Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area

Ref : National Ambient Air Quality Standards wide Central Pollution Control Board, New Delhi Notification dated 18th November 2009

For, Indicative Consultant India

Parbati Golder
(Manager-Laboratory)
Signatory Authority

Checked By

Parbati Golder
Manager-Lab, Env. Div.
Indicative Consultant India

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GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL, MECHANICAL AND BUILDING MATERIALS TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No.	: ICI/A16-17/BAPL/171A	Sample Ref. No.	: BAPL/171A
Issued To	: M/s. Bengal Aerotropolis Projects Limited	Report Date	: 29.09.16
Address	: City Office: MNAV-29, Bengal Ambuja Housing, Complex, City Centre, Durgapur - 713 216.	Date of Sampling	: 15.09.16
	: Site Office: Mouza-Khandra, Ukhra, Amluka, Banguri, Patsaora, Dakshin Khanda, P.S.-Andal & Faridpur, Burdwan.	Analysis Started on	: 22.09.16
Sample Description	: Ambient Air	Analysis completed on	: 22.09.16
Location	: Near West Side of the Project (Main Office)		
Sample Condition	: Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle		
Sampling Method	: UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)		
Test Method	: Using imported O3 Analyser		

Towards Sustainable Growth

Time	Concentration ($\mu\text{g}/\text{m}^3$)	
	Ozone as O ₃	
11:40 AM to 07:40 PM	31.52	

----- End of Report -----

Limit: ($\mu\text{g}/\text{m}^3$) Ambient Air Quality standard (National)
O₃-100 $\mu\text{g}/\text{m}^3$, 8 hours basis (Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area)

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 1st November 2009

For, Indicative Consultant India

Parbat Golui
(Manager-Laboratory)
Signatory Authority

Parbat Golui
Manager-Lab, Env. Div.
Indicative Consultant India

Checked By

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S.S.I. Reg. No.
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INDICATIVE
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GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL, MECHANICAL AND BUILDING MATERIALS TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India
Sample submitted and identified by customer as: N. A.
Report No. : ICIW/16-17/638
Issued To : M/s. Bengal Aerotropolis Projects Ltd.
Address : MNAV-29, Bengal Ambuja Housing Complex, City
Centre, Durgapur – 713 216
Sample Condition : In Plastic Bottle
Sample Description : Bore Well Water
Sampling Method : IS:3025 (Part I) 1987 (Reaffirmed 2003), APHA, 22nd ed 2012
Test Method : APHA 22nd ed, 2012, IS:3025
Location : Beside Site Office

Sample Ref. No. : W/638
Report Date : 26.09.16
Date of Sampling : 15.09.16
Analysis Started on : 16.09.16
Analysis Completed on : 24.09.16
Time of Sampling : 03:45 PM

Towards Sustainable Growth

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
1.	Appearance	-	Clear	-	-	-
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS: 3025(Part-5):1983, Reaff. 2002 APHA 22 nd Edition 2150 B
3.	pH (at 23°C)	-	7.56	6.5 to 8.5	No Relaxation	IS: 3025(Part-2):1984, Reaff. 2002 APHA 22 nd Edition 4500-H+ B
4.	Conductivity	µS/cm	1180.0	-	-	IS: 3025(Part-14):1984, Reaff. 2002 APHA 22 nd Edition 2510 B
5.	Colour	Hazen Unit	<5.0	5	15	IS: 3025(Part-4) 1983 Reaff. 1996
6.	Turbidity	N.T.U.	<1.0	1	5	IS:3025(Part-10):1984, Reaff.2002 APHA 22 nd Edition 2130 B
7.	Total Dissolved Solid (TDS)	mg/L	518.0	500	2000	IS:3025(Part-16):1984, Reaff.2002 APHA 22 nd Edition 2540 C
8.	Total Hardness as CaCO ₃	mg/L	40.4	200	600	IS:3025(Part-21):1983, Reaff.2002 APHA 22 nd Edition 2340 C
9.	Ca Hardness as CaCO ₃	mg/L	20.2	-	-	APHA 22 nd Edition 2340 C
10.	Mg Hardness as CaCO ₃	mg/L	20.2	-	-	APHA 22 nd Edition 2340 C
11.	Calcium as Ca	mg/L	8.1	75	200	APHA 22 nd Edition 2340 C
12.	Magnesium as Mg	mg/L	4.9	30	100	IS:3025(Part-40):1991, Reaff.2003 APHA 22 nd Edition 3500Ca B
13.	Chloride as Cl	mg/L	120.5	250	1000	IS:3025(Part-46):1994, Reaff.2003 APHA 22 nd Edition 3500Mg B
14.	Total Alkalinity as CaCO ₃	mg/L	534.1	200	600	IS:3025(Part-32):1988, Reaff.2003 APHA 22 nd Edition 4500Cl-B
15.	P-Alkalinity as CaCO ₃	mg/L	Nil	-	-	IS:3025(Part-23):1986, Reaff.1998 APHA 22 nd Edition 2320 B
16.	M-Alkalinity as CaCO ₃	mg/L	534.1	-	-	APHA 22 nd Edition 2320B
17.	Iron as Fe	mg/L	0.11	0.3	No Relaxation	IS:3025(Part-53):2003 APHA 22 nd Edition 3500-Fe B
18.	Sulfate as SO ₄	mg/L	10.0	200	400	IS: 3025(Part-24):1986, Reaff. 2003 APHA 22 nd Edition 4500 SO42- E

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Page 1 of 2

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GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL, MECHANICAL AND BUILDING MATERIALS TESTING.

Report No : ICV/W/16-17/638

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
19.	Phosphate as P	mg/L	<0.02	-	-	APHA 22 nd Edition 4500P D
20.	Arsenic as As	mg/L	<0.01	0.01	0.05	APHA 22 nd Edition 3500As B
21.	Manganese as Mn	mg/L	<0.1	0.1	0.3	APHA 22 nd Edition 3111 B
22.	Silica as SiO ₂	mg/L	15.8	-	-	IS: 3025(Part-35):1998, Reaff 2003 APHA 22 nd Edition 4500 SiO ₂ C IS:3025(Part-60):2008, APHA 22 nd Edition 4500 FD
23.	Fluoride as F	mg/L	<0.04	1	1.5	APHA 22 nd Edition 4500 FD

Remarks: Chemically satisfactory for the above mentioned parameters however the values of Total Dissolved Solid & Total Alkalinity are above the desirable limit but below the permissible limit.

----- End of Report -----

Checked By

For, Indicative Consultant India

(Manager Laboratory)
Signatory Authority

Parbati Gohai
Manager-Lab, Env. Div.
Indicative Consultant India

Note :

1. Test results shown in this test report relate only to the item tested.
2. This test report shall not be reproduce anywhere except in full and in same format without the approval of the laboratory.
3. Retention period of tested samples is 10 days from the date of issue of test report unless otherwise specified.

Page 2 of 2

Kolkata Lab : B1-1/22/1-2, Santoshpur (M) Block-B, Maheshitala, Kol-700 142, Mob: 9434017584, 9836470938, 7797506970
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Paradeep Office : C/o. Dhruva Chandra Sengupta, Bijoys Chandrapur, P.O.-Aulhara, Bankai, P.S.-Paradeep, Dist.-Jagatsingpur, Odisha, Mob.: 8116208984, 9830964194



S.S.I. Reg. No.
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GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL, MECHANICAL AND BUILDING MATERIALS TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No.

: ICI/SL/16-17/541

Sample Ref. No. : SL/541

Issued To

: M/s. Bengal Aerotropolis Projects Limited

Report Date : 26.09.16

Address

: City Office: MNAV-29, Bengal Ambuja Housing
Complex, City Centre, Durgapur - 713 216.
Site Office: Mouza-Khandra, Ukhra, Amluka, Banguri, Patsaora, Dakshin Khandra,
P.S.-Andal & Faridpur, Burdwan.

Date of Monitoring : 20.09.16

Sample Description

: Ambient Noise

Sampling Method

: By Digital Noise Meter

Test Method

: IS 10988:1984, Reaffirmed 2005

Location

: Near East Side of the Project (Amluka Village)

Limit

: Day Time : 55 dB (A)

The Noise Pollution (Regulation & Control) Rules, 2000

Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986

Monitoring Details :

Starting Time : 11:25 AM

Height from the floor

: 1.5 M

Total Time (T) : 18 Min

Distance of Source

: 3.0 M

Difference (dt) : 2 Min

Sl. No.	Noise Level (Li)	$ft = dt/T$	$ft \times 10^{\wedge}(Li/10)$	Sum of $ft \times 10^{\wedge}(Li/10)$
1	48.6	0.111111111	7244.360	88129.290
2	50.4		10964.782	
3	45.6		3630.781	
4	47.9		6165.950	
5	52.2		16595.869	
6	50.6		11481.536	
7	44.6		2884.032	
8	49.7		9332.543	
9	47.8		6025.596	
10	51.4		13803.843	

* The equivalent Noise Level Leg. 49.45 dB(A)

Maximum dB(A): 52.2

Minimum dB (A): 44.6

End of Report

For, INDICATIVE CONSULTANT INDIA

Checked By

Parbati Gorti

(Manager-Laboratory)

Signatory Authority

Parbati Gorti

Manager-Lab, Env. Div.

Note : 1: Test results shown in this test report relate only to the item tested.

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Paradeep Office : C/o. Dhruva Chandra Setty Tamrignihara, Bijoy Chandrapur, P.O.-Aulihara, Bankai, P.S.-Paradeep, Dist.-Jagatsingpur, Odisha, Mob.: 8116208984, 9830964194



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GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL, MECHANICAL AND BUILDING MATERIALS TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/16-17/542

Issued To : M/s. Bengal Aerotropolis Projects Limited

Address : City Office: MN/AV-29, Bengal Ambuja Housing
Complex, City Centre, Durgapur - 713 216.

Site Office: Mouza-Khandra, Ukhra, Amluka, Banguri, Patsaora, Dakshin Khandra,
P.S.-Andal & Faridpur, Burdwan.

Sample Description : Ambient Noise

Sampling Method : By Digital Noise Meter

Test Method : IS 10988:1984, Reaffirmed 2005

Location : Near East Side of the Project (Amluka Village)

Limit : Night Time : 45 dB (A)

The Noise Pollution (Regulation & Control) Rules, 2000

Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986

Monitoring Details :

Height from the floor : 1.5 M

Distance of Source : 3.0 M

Starting Time : 10:40 PM

Total Time (T) : 18 Min

Difference (dt) : 2 Min

Sl. No.	Noise Level (Li)	$ft = dt/T$	$ft \times 10^{\wedge}(Li/10)$	Sum of $ft \times 10^{\wedge}(Li/10)$
1	43.6	0.11111111	2290.868	15633.466
2	42.4		1737.801	
3	40.4		1096.478	
4	40.9		1230.269	
5	41.4		1380.384	
6	42.7		1862.087	
7	42.2		1659.587	
8	41.6		1445.440	
9	43.5		2238.721	
10	38.4		691.831	

* The equivalent Noise Level Leq. 41.94 dB(A)

Maximum dB(A): 43.6

Minimum dB (A): 38.4

End of Report

For, INDICATIVE CONSULTANT INDIA

Checked By

Parbati Gohai

(Manager-Laboratory)

Signatory Authority

Note : 1: Test results shown in this test report relate only to the item tested.

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Parbati Gohai
Indicative Consultant India

Kolkata Lab : B1-1/221-2, Santoshpur (M) Block-B, Maheshiala, Kol-700 142, Mob: 9434017584, 9836470938, 7797506970
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Paradeep Office : C/o. Dhuma Chandra Sethi Tarinigraha, Bijoy Chandrapur, P.O.-Aulihara, Bantai, P.S.-Paradeep, Dist.-Jagatsingpur, Odisha, Mob.: 8116208984, 9830964194



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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICV/SL/16-17/543
Issued To : M/s. Bengal Aerropolis Projects Limited
Address : City Office: MNAV-29, Bengal Ambuja Housing
Complex, City Centre, Durgapur - 713 216.
Site Office: Mouza-Khandra, Ukhra, Amluka, Banguri, Patsaora, Dakshin Khandra,
P.S.-Andal & Faridpur, Burdwan.

Sample Ref. No. : SL/543
Report Date : 26.09.16
Date of Monitoring : 15.09.16

Sample Description : Ambient Noise
Sampling Method : By Digital Noise Meter
Test Method : IS 10988:1984, Reaffirmed 2005
Location : Near West Side of the Project (Main Office)
Limit : Day Time : 75 dB (A)

The Noise Pollution (Regulation & Control) Rules, 2000
Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986

Monitoring Details :
Height from the floor : 1.5 M
Distance of Source : 3.0 M
Starting Time : 12:00 PM
Total Time (T) : 18 Min
Difference (dt) : 2 Min

Sl. No.	Noise Level (Li)	$ft = dt/T$	$ft \times 10^{\wedge}(Li/10)$	Sum of $ft \times 10^{\wedge}(Li/10)$
1	50.2	0.11111111	10471.285	102206.514
2	52.4		17378.008	
3	48.6		7244.360	
4	47.9		6165.950	
5	51.4		13803.843	
6	49.2		8317.638	
7	50.9		12302.688	
8	48.8		7585.776	
9	47.6		5754.399	
10	51.2		13182.567	

* The equivalent Noise Level Leg. 50.09 dB(A)

Maximum dB(A): 52.4

Minimum dB (A): 47.6

Checked By

Parbati Golui
(Manager-Laboratory)

Signatory Authority

Note : 1: Test results shown in this test report relate only to the item tested.
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For, INDICATIVE CONSULTANT INDIA

Kolkata Lab : B1-1/22/1-2, Santoshpur (M) Block-B, Maheshhala, Kol-700 142, Mob: 9434017584, 9836470938, 7797506970
Durgapur Office : C/o- M. Ghosh, D-28, Rahul Sankrityan Bithi, City Centre, Durgapur, Pin-713216, Mob.: 9232395890, 7797506971
Paradeep Office : C/o. Dhruva Chandra Seltiy Tamrighatara, Bijoy Chandrapur, P.O.-Aulihara, Bankai, P.S.-Paradeep, Dist.-Jagatsingpur, Odisha, Mob.: 816208984, 9830964194



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GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL, MECHANICAL AND BUILDING MATERIALS TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No.

: ICI/SL/16-17/544

Sample Ref. No. : SL/544

Issued To

: M/s. Bengal Aerotropolis Projects Limited

Report Date : 26.09.16

Address

: City Office: MNAV-29, Bengal Ambuja Housing

Date of Monitoring : 15.09.16

Complex, City Centre, Durgapur - 713 216.

Site Office: Mouza-Khandra, Ukhra, Amluka, Banguri, Patsaora, Dakshin Khandra,

P.S.-Andal & Faridpur, Burdwan.

Sample Description

: Ambient Noise

Sampling Method

: By Digital Noise Meter

Test Method

: IS 10988:1984, Reaffirmed 2005

Location

: Near West Side of the Project (Main Office)

Limit

: Night Time : 70 dB (A)

The Noise Pollution (Regulation & Control) Rules, 2000

Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986

Monitoring Details :

Height from the floor

: 1.5 M

Starting Time : 10:10 PM

Distance of Source

: 3.0 M

Total Time (T) : 18 Min
Difference (dt) : 2 Min

Sl. No.	Noise Level (Li)	ft = dt/T	ft X 10 ^{^(Li/10)}	Sum of ft X 10 ^{^(Li/10)}
1	44.3	0.11111111	2691.535	37643.520
2	44.8		3019.952	
3	49.2		8317.638	
4	46.4		4365.158	
5	44.9		3090.295	
6	42.6		1819.701	1659.587
7	42.2			
8	44.4		2754.229	
9	46.7		4677.351	5248.075
10	47.2			

* The equivalent Noise Level Leq. 45.76 dB(A)

Maximum dB(A): 49.2

Minimum dB (A): 42.2

End of Report

For, INDICATIVE CONSULTANT INDIA

Checked By

Parbati Ghosh

(Manager-Laboratory)

Signatory Authority

Parbati Ghosh

Note : 1: Test results shown in this test report relate only to the item tested.

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Durgapur Office : C/o.- M. Ghosh, D-28, Rahul Sankrityan Bithi, City Centre, Durgapur, Pin-713216, Mob.: 9232395890, 7797506971
Paradeep Office : C/o. Dhruva Chandra Sengupta, Bijooy Chandrapur, P.O.-Aulhara, Bankai, P.S.-Paradeep, Dist.-Jagatsinghpur, Odisha, Mob.: 8116208984, 9830964194



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GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL, MECHANICAL AND BUILDING MATERIALS TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/16-17/545

Issued To : M/s. Bengal Aerotropolis Projects Limited

Address : City Office: MNAV-29, Bengal Ambuja Housing
Complex, City Centre, Durgapur - 713 216.

Sample Ref. No. : SL/545
Report Date : 26.09.16
Date of Monitoring : 14.09.16

Site Office: Mouza-Khandra, Ukhra, Amluka, Banguri, Patsaora, Dakshin Khandra,
P.S.-Andal & Faridpur, Burdwan.

Sample Description : Ambient Noise

Sampling Method : By Digital Noise Meter

Test Method : IS 10988:1984, Reaffirmed 2005

Location : Near North Side of the Project Area (Ukhra Hospital)

Limit : Day Time : 50 dB (A)

The Noise Pollution (Regulation & Control) Rules, 2000

Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986

Monitoring Details :

Height from the floor : 1.5 M

Distance of Source : 3.0 M

Starting Time : 11:10 AM
Total Time (T) : 18 Min
Difference (dt) : 2 Min

Sl. No.	Noise Level (Li)	ft = dt/T	ft X 10 [^] (Li/10)	Sum of ft X 10 [^] (Li/10)
1	50.8	0.111111111	12022.644	90896.171
2	48.6		7244.360	
3	49.8		9549.926	
4	51.6		14454.398	
5	45.2		3311.311	
6	50.0		10000.000	
7	47.6		5754.399	
8	48.4		6918.310	
9	44.8		3019.952	
10	52.7		18620.871	

* The equivalent Noise Level Leq. 49.59 dB(A)

Maximum dB(A): 52.7

Minimum dB (A): 44.8

End of Report

For, INDICATIVE CONSULTANT INDIA

Checked By

Parbati Gholui
(Manager-Laboratory)
Signatory Authority

Note : 1 : Test results shown in this test report relate only to the item tested.

2: This test report shall not be reproduce anywhere except in full and in same format without the approval of the laboratory.

Parbati Gholui
Manager-Laboratory, Div.
Indicative Consultant India

Kolkata Lab : B1-1/22/1-2, Santoshpur (M) Block-B, Maheshala, Kol-700 142, Mob: 9434017584, 9836470938, 7797506970
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Paradeep Office : C/o. Dhruva Chandra Saini Taminghara, Bijoy Chandrapur, P.O.-Aulihara, Bantai, P.S.-Paradeep, Dist.-Jagatsingpur, Odisha, Mob.: 8116208984, 9830964194



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GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL, MECHANICAL AND BUILDING MATERIALS TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICV/SL/16-17/546

Issued To : M/s. Bengal Aerotropolis Projects Limited

Address : City Office: MNAV-29, Bengal Ambuja Housing
Complex, City Centre, Durgapur - 713 216.

Site Office: Mouza-Khandra, Ukhra, Amluka, Banguri, Patsaora, Dakshin Khandra,
P.S.-Andal & Faridpur, Burdwan.

Sample Description : Ambient Noise

Sampling Method : By Digital Noise Meter

Test Method : IS 10988:1984, Reaffirmed 2005

Location : Near North Side of the Project Area (Ukhra Hospital)

Limit : Night Time : 40 dB (A)

The Noise Pollution (Regulation & Control) Rules, 2000

Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986

Monitoring Details :

Height from the floor : 1.5 M

Distance of Source : 3.0 M

Starting Time : 10.30 PM
Total Time (T) : 18 Min
Difference (dt) : 2 Min

Sl. No.	Noise Level (Li)	ft = dt/T	ft X 10 ⁴ (Li/10)	Sum of ft X 10 ⁴ (Li/10)
1	44.4	0.11111111	2754.229	21621.528
2	40.2		1047.129	
3	45.6		3630.781	
4	44.3		2691.535	
5	46.2		4168.694	
6	42.3		1698.244	
7	40.9		1230.269	
8	39.4		870.964	
9	44.6		2884.032	
10	38.1		645.654	

* The equivalent Noise Level Leq. 43.35 dB(A)

Maximum dB(A): 46.2

Minimum dB (A): 38.1

End of Report

For, INDICATIVE CONSULTANT INDIA

Checked By

Parbati Gohri
(Manager-Laboratory)
Signatory Authority

Note : 1: Test results shown in this test report relate only to the item tested.

2: This test report shall not be reproduce anywhere except in full and in same format without the approval of the laboratory.
Indicative Consultant India

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Durgapur Office : C/o.- M. Ghosh, D-28, Rahul Sankrityan Bithi, City Centre, Durgapur, Pin-713216, Mob. : 9232395890, 7797506971
Paradeep Office : C/o. Dhruva Chandra Sathya Tamignihara, Bijoy Chandrapur, P.O.-Aulihara, Bankai, P.S.-Paradeep, Dist.-Jagatsingpur, Odisha, Mob.: 8116208984, 9830964194



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GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL, MECHANICAL AND BUILDING MATERIALS TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : IC/SL/16-17/547

Issued To : M/s. Bengal Aerotropolis Projects Limited

Address : City Office: MNAV-29, Bengal Ambuja Housing
Complex, City Centre, Durgapur - 713 216.

Site Office: Mouza-Khandra, Ukhra, Amluka, Banguri, Patsaora, Dakshin Khandra,
P.S.-Andal & Faridpur, Burdwan.

Sample Description : Ambient Noise

Sampling Method : By Digital Noise Meter

Test Method : IS 10988:1984, Reaffirmed 2005

Location : Near South Side of the Project (Tamlala Village)

Limit : Day Time : 55 dB (A)

The Noise Pollution (Regulation & Control) Rules, 2000

Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986

Monitoring Details :

Height from the floor : 1.5 M

Distance of Source : 3.0 M

Starting Time : 10:20 AM
Total Time (T) : 18 Min
Difference (dt) : 2 Min

Sl. No.	Noise Level (Li)	ft = dt/T	ft X 10 [∧] (Li/10)	Sum of ft X 10 [∧] (Li/10)
1	46.7	0.11111111	4677.351	50034.108
2	48.9		7762.471	
3	44.6		2884.032	
4	45.9		3890.451	
5	46.4		4365.158	
6	47.8		6025.596	
7	45.4		3467.369	
8	44.2		2630.268	
9	48.7		7413.102	
10	48.4		6918.310	

* The equivalent Noise Level Leq. 46.99 dB(A)

Maximum dB(A): 48.9

Minimum dB (A): 44.2

End of Report

For, INDICATIVE CONSULTANT INDIA

Checked By

Parbati Ghosh
(Manager-Laboratory)
Signatory Authority

Note : 1: Test results shown in this test report relate only to the item tested.

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Manager-Lab, Env. Div.

Kolkata Lab : B1-1/12/21-2, Santoshpur (M) Block-B, Maheshkhala, Kol-700 142, Mob: 9434017584, 9836470938, 7797506970
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Paradeep Office : C/o. Dhruva Chandra Saini Taminghara, Bijoy Chandrapur, P.O.-Aulihara, Bantala, P.S.-Paradeep, Dist.-Jagatsingpur, Odisha, Mob.: 8116208984, 9830964194



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ISO/IEC 17025:2005, ACCREDITED BY NABL, DEPARTMENT OF SCIENCE AND TECHNOLOGY,
GOVERNMENT OF INDIA IN THE FIELD OF CHEMICAL, MECHANICAL AND BUILDING MATERIALS TESTING.

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/16-17/548

Issued To : M/s. Bengal Aerotropolis Projects Limited

Address : City Office: MNV-29, Bengal Ambuja Housing

Complex, City Centre, Durgapur - 713 216.

Site Office: Mouza-Khandra, Ukhra, Amluka, Banguri, Patsaora, Dakshin Khandra,

P.S.-Andal & Faridpur, Burdwan.

Sample Description : Ambient Noise

Sampling Method : By Digital Noise Meter

Test Method : IS 10988:1984, Reaffirmed 2005

Location : Near South Side of the Project (Tamlu Village)

Limit : Night Time : 45 dB (A)

The Noise Pollution (Regulation & Control) Rules, 2000

Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986

Monitoring Details :

Height from the floor : 1.5 M

Distance of Source : 3.0 M

Starting Time : 10:00 PM
Total Time (T) : 18 Min
Difference (dt) : 2 Min

Sl. No.	Noise Level (Li)	ft = dt/T	ft X 10 ⁴ (Li/10)	Sum of ft X 10 ⁴ (Li/10)
1	42.3	0.11111111	1698.244	15243.818
2	44.1		2570.396	
3	40.2		1047.129	
4	40.4		1096.478	
5	39.4		870.964	
6	40.6		1148.154	
7	36.7		467.735	
8	42.8		1905.461	
9	44.9		3090.295	
10	41.3		1348.963	

* The equivalent Noise Level Leq. 41.83 dB(A)

Maximum dB(A): 44.9

Minimum dB (A): 36.7

End of Report

For, INDICATIVE CONSULTANT INDIA

Checked By

Parbati Gouti

(Manager-Laboratory)

Signatory Authority

Note : 1: Test results shown in this test report relate only to the item tested.

2: This test report shall not be reproduce anywhere except in full and in same format without the approval of the laboratory.

Parbati Gouti
Manager-Lab, P&T, Div.
Indicative Consultant India

Kolkata Lab : B1-1/22/1-2, Santoshpur (M) Block-B, Maheshala, Kol-700 142, Mob: 9434017584, 9836470938, 7797506970
Durgapur Office : C/O - M. Ghosh, D-28, Rahul Sankrityan Bitti, City Centre, Durgapur, Pin-713216, Mob : 9232395890, 7797506971
Paradeep Office : C/O. Dhuma Chandra Sengupta Taminigara, Bijoy Chandrapur, P.O.-Aulihara, Bankai, P.S.-Paradeep, Dist.-Jagatsingpur, Odisha, Mob.: 8116208984, 9830964194

INDICATIVE CONSULTANT INDIA

HPL Link Road, Basudevpur, Khanjanchak, Haldia, Purba Medinipur
Ph. 03224-275765, 9434017584

STACK EMISSION DATA SHEET

Stack information sheet (Please use separate sheet for each stack)

FORMAT NO. ICI/FM/38

Name of the Industry	M/S Bengal Aerobatics Limited	Date of Monitoring	15.9.2014
Address	City office MNA-29, Bengal Aerobics Stadium Complex, City Centre, Dumka - 713216, Jharkhand, India	Time of Monitoring	3.00 PM
Sample ID No.	NAE - Khanda, Jharkhand, India, P.S. - Dumka, & Faridpur, Khanda, India	Nature of Industry	

A. GENERAL INFORMATION ABOUT STACK

Stack / Duct Connected to	D.G. Set (500 KVA)	Emission due to	Combustion of H.S.D
Shape to Stack	Circular	Pressure	
Material of Construction	M.S		
Fuel used	H.S.D		
Height of Stack (M) From Ground Level From Roof Level	9.0 m	Steam Generation Capacity Rated Running	
Height of Sampling Nozzle (M) From Ground Level From lower disturbing zone		Fuel Consumption Rated Running	80 lit/hr 80 lit/hr
Stack Diameter Internal (M)		Load Rated Running	
Bottom Sampling Point	0.20 m		
Permanent Platform & Ladder	Temporary	Barometric Pressure (Pbar)	748 mm of Hg.
Pollution Control device	NA		
Remarks			

The above information are true & supplied by us. We will be responsible for any clarification (if needed)

Name & Signature *Kaishik Mondal*

Designation : DCM

STACK / DUCT CALCULATION SHEET

Name of Client: M/s Bengal Petrochemicals Projects Limited
Sample Collected From: D. S. Set (good water)
Par mm Hg: 74.8
Date: 15.9.2016
Time: 3.50 PM
Thimble No.: 227

1. Molecular weight of flue gas.

				MD (Kg/Kg Mole) = 0.44 (% CO ₂) + 0.32(% O ₂) + 0.28(% N ₂ + % CO)
CO ₂ %	O ₂ %	CO %	N ₂ %	
6.8	13.0	20.2	80.2	2.992 + 4.16 + 22.952

2. Calculation of volume of water vapour (Condensation Method) :

(Vc)ml	(tm(°C)	Tm=(t _m +273)	(Pm)	(V _{vm}) = $\left(\frac{V_c \times 22.4}{1000 \times 18} \times \frac{T_m}{273} \times \frac{760}{P_{\text{bar}} - P_m} \right)$	V _m (m ³)	M% = $\left(\frac{V_v}{V_v + V_m} \times 100 \right)$
7	20	293	20	0.090	0.6	1.6

$$B_{WO} = \frac{(M\%)}{100} : 0.016$$

$$M_s(\text{Kg/Kg mole}) = M_d(1 - B_{wo}) + (18 \times B_{wo}) : 29 \cdot 1390 \cdot 288$$

3. Calculation of stack/duct gas velocity (U_s):

Kp.Cp: 33.5x 0 - 848

Area of Stack (As) (m²):

Suction of meter (Pm) (mm of Hg column): 20/174/8

Area of Sampling Nozzle (An) (m²): $\frac{\pi}{4} (0.0520)^2$ Pref = 760 mm Hg : Tref = 298^oK : Diameter of Nozzle (mm) : 9.54

[illegible]

4. Stack gas volumetric flow rate, $(Q_s) \text{ Nm}^3/\text{hr} = (3600 \times U_s \times A_s (1 - B_{wo})) \times (T_{ref} \times \text{Abs } P_s) / (T_s \times P_{ref}) = 760.07$

Gas drawn for SO₂: 1 liter at 20 °C Volume of gas in (V_m) m³: 0.028

Gas drawn for NOx: J.P. 25, FF-
V-NM Volume of gas in std. Condition (Vstd) Nm³ = 0,928/
I-7-36E-29

Monitoring done by: W. A. C. M.

$(V_{std}) = (V_m) m^3 (P_{bar} - P_m / 760) (298/T_m)$

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Ph. 03224-275765, 9434017584

STACK EMISSION DATA SHEET

Stack information sheet (Please use separate sheet for each stack)

FORMAT NO. IC/FM/38

Name of the Industry	M/S Bangor Aerodropolis Projects Limited.	Date of Monitoring	15.09.2014
Address	City Office, MWAV-29, Bangor bridge, Working Centre, City Centre, Durgam - 713216, Site #Ria	Time of Monitoring	1.05 P.M.
Sample ID No.	Area - Khadua, Ichha, Brakhe Bangor, Post-2003, Dakshin, Khadua, P.S - Khadua & Faridpur, Burdwan	Nature of Industry	

A. GENERAL INFORMATION ABOUT STACK

Stack / Duct Connected to	D.G. Set (11250 kVb)	Emission due to	Combustion of H.S.D.
Shape to Stack	Circular	Pressure	
Material of Construction	M.S.		
Fuel used	H.S.D.		
Height of Stack (M)		Steam Generation Capacity	
From Ground Level	30.0 m	Rated	
From Roof Level		Running	
Height of Sampling Nozzle (M)		Fuel Consumption	
From Ground Level		Rated	190 kwh/hr
From lower disturbing zone		Running	190 kwh/hr
Stack Diameter Internal (M)		Load	
Top		Rated	
Bottom		Running	
Sampling Point	0.46 m		
Permanent Platform & Ladder	Temporary	Barometric Pressure (Pbar)	748 mm of Hg.
Pollution Control device	N/A		
Remarks			

The above information are true & supplied by us. We will be responsible for any clarification (if needed).

Name & Signature Kaolash Mawelal Sunny

Designation : D.S.M

STALK / DUCT CALCULATION SHEET

m/s

1509 0011

non-composita

D. G. S. (1950 K. A.)

[illegible]

2

D. G. L. (120 K 08)

3 2
C
— —

237

$$22.81\%$$

98.68

$$M\% = \left(\frac{V_v}{V_v + V_m} \times 100 \right)$$

02021

V_m (m ³)	0.6
-------------------------	-----

$$M\% = \left(\frac{V_v}{V_v + V_m} \times 100 \right)$$

0.729

29.41

0.040

8480-

Area of Stack (A_s) (m²):

Suction of meter (Pm)

of He column): 246/510

$$1e(A_n)(m^2):$$

Pref = 760 mm Hg:

$$T_{ref} = 298^{\circ}K:$$

Diameter of Nozzle (mm):

$s \Delta n \frac{T_m}{T_s} \times \frac{1}{T_m} \times 1000 \times 60$	Time
1.03	
0.99	27

5179.27

Volume of gas in (V_m) m³ : 1

12-11-10

Volume of gas in (V_m) m³: 1.053

1. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

V_{std} = volume of gas in std. Condition (V_{std}) Nm^3 ;

7722

FIELD SHEET FOR WASTE WATER/WATER

Date of sampling: 15.9.2011

Name and address of the company:	Date of sampling:
M/S Berger Anthropols Project Limited City office - MNAR-28, Berger Ambuja Housing complex, City office	15.1.2018

Durapura - 31.3.2016. Site office = Menya - Kibanda, Uluhere, Ibuleka Bampuni
Prof. Seta Pababian Ubandu, P.S. Pholoh + Pababian, Usunatun

Base well water

Product / Bi-Product :

Raw Materials:

Sampling in presence of

(Full name and designation) Mr. K. Nandak

Weather during sampling: Rainy/Dry/Windy

Type of ETP:

Whether ETP is functioning during sampling:

Parameter to be tested :

[illegible]

Signature of the concerned person :

Signature of the sampler: