

# **ENVIRONMENTAL CLEARANCE (EC) COMPLIANCE STATEMENT FOR PERIOD OF APRIL 2018 TO SEPTEMBER 2018**

## **Project Name**

**Proposed Cement Grinding Unit (OPC/PPC, 0.66 MTPA)  
at P.O. Gauripur, District Kamrup (Rural), Assam**

**Submitted By**



**Prepared by**



**PROJECT DETAILS**

**Name of ENVIRONMENTAL CLEARANCE (EC) COMPLIANCE STATEMENT  
Publication FOR PERIOD OF APRIL 2018 TO SEPTEMBER 2018**

**Project Number Version 2 Released 11<sup>th</sup> Nov 2018**

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# **Environmental Clearance Compliance Report (April 2018 to September 2018)**

**ENVIRONMENTAL CLEARANCE (EC) COMPLIANCE STATEMENT FOR  
THE PERIOD OF APRIL 2018 to SEPTEMBER 2018**

**Name of The Company :** M/s. Topcem India

**Project Name :** Proposed Cement Grinding Unit (OPC/PPC, 0.66 MTPA) at P.O. Gauripur, District Kamrup ( Rural), Assam

**Environmental Clearance Letter :** F.No. J-11011/608/2009-IA II (I), Dated July 22, 2010.

**Amendment of Environmental Clearance Letter :** F.No. J-11011/608/2009-IA II (I), Dated 2nd June, 2011.

**A. Specific conditions:**

Sl.No.	Compliance Conditions	Compliance Status
i.	Continuous stack monitoring facilities to monitor gaseous emissions from all the stacks shall be provided. Particulate emissions shall be controlled within 30 mg/Nm <sup>3</sup> by installing adequate air pollution control system viz. Bag filters and stacks of adequate height etc. Data on ambient air Quality, fugitive and stack emissions shall be submitted to the Ministry's Regional Office at Shillong, Assam State Pollution Control Board (ASPCB) and CPCB regularly	<ul style="list-style-type: none"> <li>We have installed online (opacity meter) monitoring device at our Cement mill stack for continuous monitoring of the gaseous emissions. PM data is live on CPCB and ASPCB server (<a href="http://202.191.230.91/">http://202.191.230.91/</a>)</li> <li>Reverse pulse jet type Bag filters are provided for mill, classifier, silos and Cement packing ventilation to control the particulate emission. Necessary replacement of bags in bag filters is being done whenever required, for controlling of the emission below 30mg/Nm<sup>3</sup>. Bag filters, stacks of adequate height etc are being maintained.</li> <li>Monitored data of ambient air, fugitive and stack emission Report is attached as <b>Annexure-I</b>.</li> </ul>
ii.	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No.: 826(E), dated: 16th November, 2009 should be followed.	We are following the National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No.: 826(E), dated: 16 <sup>th</sup> November, 2009 and monitoring is carried out accordingly. Other than SO <sub>x</sub> , NO <sub>x</sub> and PM rest of parameters are found very minute quantity in the air so we are monitoring them once in a year. The report is attached as <b>Annexure-I</b> .
iii.	Gaseous emission levels including secondary fugitive	We are controlling fugitive emission from all the sources within the latest permissible limits

**A. Specific conditions:**

Sl.No.	Compliance Conditions	Compliance Status
	emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/Code of Practice issued by the CPCB should be followed	<p>issued by the MoEF guidelines using Bag filters &amp; water sprinkling system and also monitoring the parameters as per guideline.</p> <p>Adequate dust collection and extraction system to control fugitive dust emissions at various transfer points ,raw material handling, bagging and packing areas etc. are already developed. All conveyers are covered with GI sheets.</p> <p>Refer <b>Annexure-I</b> for monitoring data.</p>
iv.	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. All the raw material stock piles should be covered. A closed clinker stockpile system shall be provided. All conveyers should be covered with GI sheets. Covered sheds for storage of raw materials and fully covered conveyers for transportation of materials should be provided besides coal, cement, fly ash and clinker shall be stored in silos. Pneumatic system shall be used for fly ash handling.	<ul style="list-style-type: none"> <li>▪ We have provided adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw material handling, bagging and packing sections etc. All conveyers are covered with GI sheets. All the raw material stock piles are covered by tarpaulins. Finished products are dispatched by covered wagon or truck to stop fugitive emission during transportation.</li> <li>▪ We have provided 19 numbers of reverse pulse jet type bag filters system in whole plant to control the fugitive emission. Detail of the attached bags is attached as <b>Annexure-I c.</b></li> <li>▪ Covered storage is provided for fly ash and gypsum. For Clinker RCC Silo is provided.</li> <li>▪ Belt Conveyors have been using for transporting of raw materials which are covered with GI sheets.</li> <li>▪ We are receiving fly Ash in HDPE bags and after cutting bags we are feeding the fly ash to hopper through belt conveyor.</li> </ul>
v.	Asphalting/concreting of roads and water spray all around the stock-yard and loading/unloading areas in the cement plant shall be carried out to control fugitive emissions. Regular water sprinkling shall be carried out in critical areas prone to air	<ul style="list-style-type: none"> <li>▪ Concreting of road has done and upto 87.5% has covered. We ensure that we have installed in total 90 nubmers of water Sprinklers around loading/unloading areas, internal roads and near plantation area. The Fugitive emission result on six locations (as mentioned in EIA/EMP report) and collection of PUC certificate data of vehicles entering within the plant are attached with</li> </ul>

**A. Specific conditions:**

Sl.No.	Compliance Conditions	Compliance Status
	pollution and having high levels of PM and RSPM such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	this report as <b>Annexure-I</b> and <b>Annexure-II</b> .
vi.	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw materials including fly ash should be transported in the closed containers only and should not be overloaded. Vehicular emissions shall be regularly monitored.	<p>We have taken all precautions to reduce impact of transport of raw material etc in the surrounding environment including agricultural land. Such as Fly ash is transported in HDPE sealed bags, internal roads of plant are paved and regular sprinkling of water is being done on roads.</p> <p>We have separate parking areas for trucks and PUC certificate is check regularly to control the vehicular emission.</p>
vii.	Total water requirement for cement plant from bore wells shall not exceed 50 m <sup>3</sup> /day. All the treated wastewater shall be recycled and reused in the process and/ or for dust suppression and green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and zero discharge shall be adopted.	<ul style="list-style-type: none"> <li>▪ Total water requirement does not exceed 50 m<sup>3</sup>/day.</li> <li>▪ Being a Zero Discharge unit no waste water is generated. We conserve water by recycle and reuse of the process water after primary use.</li> <li>▪ Sewage Treatment Plant has been constructed and treated waste water reused in gardening and dust suppression.</li> <li>▪ Effluent Treatment Plant has also constructed for recycle water being used in washing of vehicles.</li> <li>▪ No process water is let to go outside the factory and it is included in recirculation system.</li> </ul>
viii.	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water	Rain water harvesting system has been constructed for conservation of rain water and for reducing the consumption of fresh water. Rooftop water is being collected and recharging to the ground. The photos of rain water

**A. Specific conditions:**

Sl.No.	Compliance Conditions	Compliance Status
	requirement. Only balance water requirement shall be met from other sources.	harvesting is submitted already with previous Compliance report Oct 17 to Mar18.
ix.	All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process used for cement manufacturing. Spent oil and batteries should be sold to authorized recyclers / reproprocessors only.	<ul style="list-style-type: none"> <li>All the collected dusts from the pollution control devices is recycled and reused in the cement manufacturing process. Spent oil reused in the plant machineries for lubrication. Damaged HDPE bags are sold to the authorized recyclers/reprocessors only and separate storage room for the spent oil and batteries are maintained.</li> <li>ETP has also constructed near plant workshop.</li> </ul>
x.	Green belt shall be developed in an area of 33% of total area in and around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO.	We have developed the green belt inside the plant premises within 22064 square meters to mitigate the effects of pollution in consultation with local DFO. The copy of letter is already submitted to MoEF Regional Office, Shillong along with compliance report for the period of Oct'2015 to March'2016.
xi.	All the recommendations made in the Chapter on Corporate Responsibility for Environment Protection (CREP) for the Cement plants shall be implemented.	All the CREP conditions for the Cement plants are implemented and followed.
xii.	Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Shillong, ASPCB and CPCB within 3 months of issue of Environment Clearance letter.	<p>Already submitted to Ministry's Regional Office at Shillong, ASPCB and CPCB.</p> <p>Revised Risk and Disaster Management Plan for M/s TOPCEM INDIA is already submitted with compliance report for period of April'17 to Sep'17.</p>
xiii.	At least 5% of the total cost of the project should be earmarked towards the corporate social responsibility and item – wise details along with time bound action plan should be prepared and	Item-wise details along with time bound action plan 2018-19 is submitted with previous compliance report. Accordingly Corporate Social responsibility activities are being followed. The costing details of CSR activities completed in this period are attached as



**A. Specific conditions:**

Sl.No.	Compliance Conditions	Compliance Status
	submitted to the Ministry's Regional Office at Shillong. Implementation of such program should be ensured accordingly in a time bound manner.	<b>Annexure-IV.</b>
xiv.	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	The company had provided housing facilities for construction labor with all necessary infrastructure and facilities at the time of project work.

**B. General conditions:**

Sl.No.	Compliance Conditions	Compliance Status
i.	The project authorities must strictly adhere to the stipulations made by the Assam State Pollution Control Board and the State Government	We are complying with all the stipulation made by the Assam State Pollution Control Board and the State Government.  We have obtained Consent to Operate (CTO) for the year 2018-19 from the board under water Act-1974 and Air Act-1981 vide APCB letter no.: WB/GUW/T-1241/PT-I/12-13/237/66 dated 23/04/18.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Condition is being followed.  Prior approval of the Ministry of Environment and Forests will be taken for further expansion or modifications in the plant, if any.
iii.	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and	Condition is being followed.  Monitoring reports are enclosed as <b>Annexure-I.</b>



**B. General conditions:**

Sl.No.	Compliance Conditions	Compliance Status
	standards prescribed from time to time. The State Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	
iv.	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, SO2 and NOX are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Shillong and the SPCB/CPCB once in six months.	<p>Four ambient air quality monitoring locations are identified in consultation with Pollution Control Board vide Letter no WB/LB-81/Amb/09-10/33/1327 dated 26th August 2011.</p> <ul style="list-style-type: none"> <li>▪ Analysis results on ambient air quality and stack emissions test report are attached as <b>Annexure -I.</b></li> <li>▪ We are regularly submitting six monthly compliance reports to the Ministry's Regional Office, State pollution control board, Assam and Central Pollution control Board Delhi.</li> </ul>
v.	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Being a zero discharge unit no Industrial waste water is generated. We are using Sewage Treatment plant (STP) for treating waste water. The treated wastewater is being used for plantation and other purpose like spraying on roads and dust suppression.
vi.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	<p>Noise control measure i.e. acoustic hoods, silencers and enclosures have been provided with all sources of noise generation so that noise level in and around the plant remain below 85 dB(A).</p> <p>Noise monitoring reports are enclosed as <b>Annexure-I.</b></p>

**B. General conditions:**

Sl.No.	Compliance Conditions	Compliance Status
vii.	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of the workers is being carried out on regular basis and records are maintained as per the Factories Act. The latest Occupational health surveillance of the workers' Report copies are attached here as <b>Annexure-VI</b> .
viii.	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Rain water harvesting structure has constructed and we are using it to harvest the rain water during lean season as per direction. <b>Annexure V</b> .
ix.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	We are complying the protection measures and safeguards recommended in the EIA/EMP report and community development programmes like drinking water supply, etc are initiated in the area. We are undertaking socio-economic development activities in the surrounding villages.  Some of the newspaper advertised copy is already submitted with previous compliance.
x.	Requisite amount of funds shall be earmarked for the environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Shillong. The funds so provided shall not be diverted for any other purpose.	The fund has earmarked for environment pollution control measures as per EC granted by MOEF. Implementation schedule for implementing all conditions stipulated has already submitted to Regional Office of the Ministry of Environment and Forest at Shillong.
xi.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila	No such suggestions/ representations from concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local

**B. General conditions:**

Sl.No.	Compliance Conditions	Compliance Status
	Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	NGO were received while processing the proposal.  The clearance letter is uploaded on our company website i.e www.topcem.in
xii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF at Shillong. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	<ul style="list-style-type: none"> <li>Status of the compliance of the stipulated environment clearance condition including monitoring data are uploaded in our website i.e. www.topcem.in and also sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the ASPCB.</li> <li>We are displaying critical pollutants (ambient as well as stack emissions) near our Main gate of Plant.</li> </ul>
xiii.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Shillong/ CPCB / SPCB shall monitor the stipulated	We are regularly submitting six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data as stipulated. Last EC Compliance report for the period Oct'2017 to March'2018 was submitted vide letter no. TI/MEF/OA/17-18/164 dated 14 <sup>th</sup> June 2018 to the competent authorities.

**B. General conditions:**

Sl.No.	Compliance Conditions	Compliance Status
	conditions.	
xiv.	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF at Shillong by e-mail.	The environmental statement for year ending March 2018- was submitted vide our letter No.TI/MEF/0A/17-18/121 dtd 7 <sup>th</sup> May 2018 to Pollution Control Board Assam and Regional Office of the MoEF Shillong.
xv.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Shillong.	We have followed the condition as directed.
xvi.	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the	We have followed the condition and informed to the Ministry's regional Office, Shillong.

**B. General conditions:**

Sl.No.	Compliance Conditions	Compliance Status
	concerned authorities and the date of commencing the land development work.	
xvii	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	We are agreed with the condition and assure that we are implementing the condition.
xviii	The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	We are agreed with the condition and assure that we are implementing the condition.
xix.	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under section 11 of the National Environment Appellate Act-1997.	We are agreed with the condition and assure that we are implementing the condition.
xx.	The above condition shall be enforced, inter alia under the provisions of the Water Act-1974, Air Act-1981 and Hazardous Waste (M&H) and Transboundary movement Rules-2008 and the Public (Insurance) Liability Act-1991 along with their amendments and Rules.	We are agreed with the condition and assure that we are implementing the condition.

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# **ANNEXURE-I**

## **MONITORING REPORTS OF AMBIENT AIR QUALITY, AMBIENT NOISE, STACK EMISSION AND FUGITIVE EMISSION**



Issued to :

M/sTopcem India  
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ACCREDITED BY NABL, ISO/IEC 17025 : 2005, QUALITY COUNCIL OF INDIA  
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&  
NOTIFIED BY FOOD SAFETY STANDARDS AND AUTHORITY OF INDIA (FSSAI)

## TEST REPORT

Report number	:	ABCTL/20180918/AAQ/A1-A4
Sample drawn by	:	ABC Techno Labs India Private Limited
Sample description	:	Ambient Air Quality Monitoring
Date of sampling	:	14-09-2018 & 15-09-2018
Analysis commenced on	:	18-09-2018
Analysis Completed on	:	21-09-2018
Report date	:	25-09-2018

Page 1 of 1

SL. NO.	Date of sampling	Location/source	Weather	Parameters			
				PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )
i)	14/09/2018	Near highways & Truck parking	Clear	57.7	35.3	14.2	4.9
ii)		Near workshop & staff quarter		49.2	30.4	13.5	4.6
iii)	15/09/2018	Near Switch yard		51.3	29.5	13.1	5.1
iv)		Near Truck Tippler		60.5	32.4	14.5	5.6

Remarks:-All parameters are within the permissible limit.

### National Ambient Air Quality Standards:

Sl. No.	Pollutant	Time Weighted Average	Concentration in Ambient Air
			Industrial, Residential, Rural and other area
1	Sulphur Dioxide SO <sub>2</sub> (µg/m <sup>3</sup> )	Annual	50
		24 Hours	80
2	Nitrogen Dioxide (NO <sub>x</sub> )(µg/m <sup>3</sup> )	Annual	40
		24 Hours	80
3	Particulate Matter PM <sub>10</sub> (µg/m <sup>3</sup> )	Annual	60
		24 Hours	100
4	Particulate Matter PM <sub>2.5</sub> (µg/m <sup>3</sup> )	Annual	40
		24 Hours	60

....END OF REPORT....

Verified



A. Robson Chinnadurai  
Technical Manager

28/09/18

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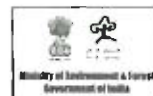
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## TEST REPORT

Report number	:	ABCTL/20180918/IAQ/A1-A6
Sample drawn by	:	ABC Techno Labs India Private Limited
Sample description	:	Fugitive Emission Monitoring
Date of sampling	:	17-09-2018 & 18-09-2018
Report date	:	25-09-2018

Page 1 of 1

SL. NO.	DATE OF SAMPLING	LOCATION/ SOURCE	Fugitive (PM) ( $\mu\text{g}/\text{m}^3$ )	Remarks
i)	17/09/2018	Near Main Gate	1021	-Water spraying is done to control the fugitive emission.
ii)		Near Fly Ash Yard	965	
iii)		Near Packing Loading Area	1370	
iv)	18/09/2018	Near Packing Area	1289	-All materials are stored in closed sheds to mitigate fugitive emission.
v)		Near Bag Filter	406	
vi)		Near Truck Tippler	1178	

....END OF REPORT....



SP  
Verified



A. Robson Chinnadurai  
Technical Manager

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## TEST REPORT

Report number : ABCTL/20180424/NS/N1-N4  
Sample drawn by : ABC Techno Labs IndiaPrivate Limited  
Sample description : Ambient Noise Level Monitoring  
Date of sampling : 23-04-2018 & 24-04-2018  
Report date : 27-04-2018Page 1 of 1

S. No.	Location /Source	Noise Level in Leq [dB(A)]
N1	Near Highway & Truck Parking	68.7
N2	Near Workshop & Staff Quarter	71.4
N3	Near Packing Plant	69.2
N4	Near Cement Mill	73.3

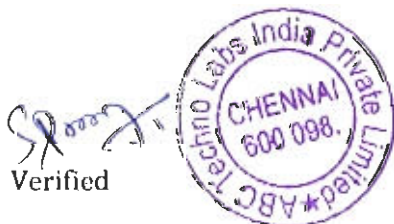
Remarks: Noise level are carried out during day time.

Method: IS: 9989-1981(Reaff: 2001)

### Ambient Noise Standard

Area Code	Category of area	Limits in dB(A) Leq	
		Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

.....END OF REPORT.....



Signature of A. Robson Chinnadurai dated 27/04/18

A. Robson Chinnadurai  
Technical Manager

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## TEST REPORT

Report number : ABCTL/20180515/NS/N1-N4  
Sample drawn by : ABC Techno Labs India Private Limited  
Sample description : Ambient Noise Level Monitoring  
Date of sampling : 14-05-2018 & 15-05-2018  
Report date : 21-05-2018 Page 1 of 1

S. No.	Location /Source	Noise Level in Leq [dB(A)]
N1	Near Highway & Truck Parking	69.6
N2	Near Workshop & Staff Quarter	70.5
N3	Near Packing Plant	69.7
N4	Near Cement Mill	71.5

Remarks: Noise level are carried out during day time.  
Method: IS: 9989-1981(Reaff: 2001)

Area Code	Category of area	Limits in dB(A) Leq	
		Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Ambient Noise Standard  
.....END OF REPORT.....



Verified

A. Robson Chinnadurai  
Technical Manager  
21/05/18

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## TEST REPORT

Report number : ABCTL/20180612/NS/N1-N4  
Sample drawn by : ABC Techno Labs India Private Limited  
Sample description : Ambient Noise Level Monitoring  
Date of sampling : 11-06-2018 & 12-06-2018  
Report date : 16-06-2018 Page 1 of 1

S. No.	Location /Source	Noise Level in Leq [dB(A)]
N1	Near Highway & Truck Parking	67.8
N2	Near Workshop & Staff Quarter	71.9
N3	Near Packing Plant	69.4
N4	Near Cement Mill	72.5

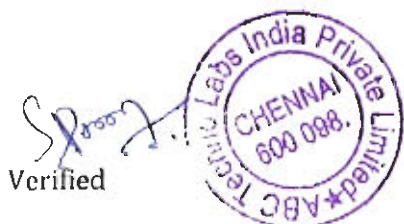
Remarks: Noise level are carried out during day time.

Method: IS: 9989-1981(Reaff: 2001)

### Ambient Noise Standard

Area Code	Category of area	Limits in dB(A) Leq	
		Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

.....END OF REPORT.....



A. Rohson Chinnadurai  
Technical Manager

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## TEST REPORT

Report number : ABCTL/20180717/NS/N1-N4  
Sample drawn by : ABC Techno Labs IndiaPrivate Limited  
Sample description : Ambient Noise Level Monitoring  
Date of sampling : 16-07-2018 & 17-07-2018  
Report date : 20-07-2018Page 1 of 1

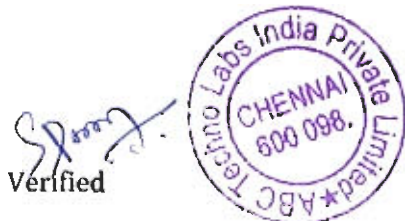
S. No.	Location /Source	Noise Level in Leq [dB(A)]
N1	Near Highway & Truck Parking	67.5
N2	Near Workshop & Staff Quarter	72.5
N3	Near Packing Plant	70.2
N4	Near Cement Mill	72.8

Remarks: Noise level are carried out during day time.  
Method: IS: 9989-1981(Reaff: 2001)

### Ambient Noise Standard

Area Code	Category of area	Limits in dB(A) Leq	
		Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

.....END OF REPORT.....



A. Robson Chinnadurai  
Technical Manager

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## TEST REPORT

Report number : ABCTL/20180810/NS/N1-N4  
Sample drawn by : ABC Techno Labs India Private Limited  
Sample description : Ambient Noise Level Monitoring  
Date of sampling : 09-08-2018 & 10-08-2018  
Report date : 14-08-2018 Page 1 of 1

S. No.	Location /Source	Noise Level in Leq [dB(A)]
N1	Near Highway & Truck Parking	66.4
N2	Near Workshop & Staff Quarter	69.6
N3	Near Packing Plant	68.3
N4	Near Cement Mill	73.3

Remarks: Noise level are carried out during day time.  
Method: IS: 9989-1981(Reaff: 2001)

### Ambient Noise Standard

Area Code	Category of area	Limits in dB(A) Leq	
		Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

.....END OF REPORT.....



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A. Robson Chinnadurai  
Technical Manager  
14/08/18

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## TEST REPORT

Report number : ABCTL/20180918/NS/N1-N4  
Sample drawn by : ABC Techno Labs IndiaPrivate Limited  
Sample description : Ambient Noise Level Monitoring  
Date of sampling : 14-09-2018 & 15-09-2018  
Report date : 25-09-2018Page 1 of 1

S. No.	Location /Source	Noise Level in Leq [dB(A)]
N1	Near Highway & Truck Parking	69.2
N2	Near Workshop & Staff Quarter	72.4
N3	Near Packing Plant	70.7
N4	Near Cement Mill	71.4

Remarks: Noise level are carried out during day time.  
Method: IS: 9989-1981(Reaff: 2001)

### Ambient Noise Standard

Area Code	Category of area	Limits in dB(A) Leq	
		Day (6:00 am to 10:00 pm)	Night (10:00 pm to 6:00 am)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

.....END OF REPORT.....



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## TEST REPORT

Report number	:	ABCTL/20180424/STK/S1
Sample drawn by	:	ABC Techno Labs India Private Limited
Sample description	:	Source Emission Monitoring
Date of sampling	:	24-04-2018
Report date	:	27-04-2018

Page 1 of 1

S.No	Stack Description	PM (mg/Nm <sup>3</sup> )	SO <sub>x</sub> (mg/Nm <sup>3</sup> )	NO <sub>x</sub> (mg/Nm <sup>3</sup> )
1	Stack attached to Cement Mill	17.4	Not Detected	Not Detected
MoEF Standards		30	Not Specified	Not Specified

Method: IS 11255 Part 1 (Reaff.2003) and Flue Gas Analyser

REMARKS: -Production capacity of the cement plant is 0.66 MTPA.

Bag filter is attached to Cement mill.

....END OF REPORT....



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A. Robson Chinnadurai  
Technical Manager

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## TEST REPORT

Report number	:	ABCTL/20180515/STK/S1
Sample drawn by	:	ABC Techno Labs India Private Limited
Sample description	:	Source Emission Monitoring
Date of sampling	:	15-05-2018
Report date	:	21-05-2018

Page 1 of 1

S.No	Stack Description	PM (mg/Nm <sup>3</sup> )	SO <sub>x</sub> (mg/Nm <sup>3</sup> )	NO <sub>x</sub> (mg/Nm <sup>3</sup> )
1	Stack attached to Cement Mill	16.6	Not Detected	Not Detected
MoEF Standards		30	Not Specified	Not Specified

Method: IS 11255 Part 1 (Reaff.2003) and Flue Gas Analyser

REMARKS: -Production capacity of the cement plant is 0.66 MTPA.

Bag filter is attached to Cement mill.

....END OF REPORT....



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Technical Manager

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## TEST REPORT

Report number	:	ABCTL/20180612/STK/S1
Sample drawn by	:	ABC Techno Labs India Private Limited
Sample description	:	Source Emission Monitoring
Date of sampling	:	12-06-2018
Report date	:	16-06-2018

Page 1 of 1

S.No	Stack Description	PM (mg/Nm <sup>3</sup> )	SO <sub>x</sub> (mg/Nm <sup>3</sup> )	NO <sub>x</sub> (mg/Nm <sup>3</sup> )
1	Stack attached to Cement Mill	17.7	Not Detected	Not Detected
	MoEF Standards	30	Not Specified	Not Specified

Method: IS 11255 Part 1 (Reaff.2003) and Flue Gas Analyser

REMARKS: -Production capacity of the cement plant is 0.66 MTPA.

Bag filter is attached to Cement mill.

....END OF REPORT....



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A. Robson Chinnadurai  
Technical Manager

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## TEST REPORT

Report number	:	ABCTL/20180717/STK/S1
Sample drawn by	:	ABC Techno Labs IndiaPrivate Limited
Sample description	:	Source Emission Monitoring
Date of sampling	:	17-07-2018
Report date	:	20-07-2018

Page 1 of 1

S.No	Stack Description	PM (mg/Nm <sup>3</sup> )	SO <sub>x</sub> (mg/Nm <sup>3</sup> )	NO <sub>x</sub> (mg/Nm <sup>3</sup> )
1	Stack attached to Cement Mill	16.9	Not Detected	Not Detected
MoEF Standards		30	Not Specified	Not Specified

Method: IS 11255 Part 1 (Reaff.2003) and Flue Gas Analyser

REMARKS: -Production capacity of the cement plant is 0.66 MTPA.

Bag filter is attached to Cement mill.

....END OF REPORT....



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A. Robson Chinnadurai  
Technical Manager

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## TEST REPORT

Report number	:	ABCTL/20180810/STK/S1
Sample drawn by	:	ABC Techno Labs India Private Limited
Sample description	:	Source Emission Monitoring
Date of sampling	:	10-08-2018
Report date	:	14-08-2018

Page 1 of 1

S.No	Stack Description	PM (mg/Nm <sup>3</sup> )	SO <sub>x</sub> (mg/Nm <sup>3</sup> )	NO <sub>x</sub> (mg/Nm <sup>3</sup> )
1	Stack attached to Cement Mill	17.8	Not Detected	Not Detected
MoEF Standards		30	Not Specified	Not Specified

Method: IS 11255 Part 1 (Reaff.2003) and Flue Gas Analyser

REMARKS: ~Production capacity of the cement plant is 0.66 MTPA.  
Bag filter is attached to Cement mill.

....END OF REPORT....



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A. Robson Chinnadurai  
Technical Manager

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## TEST REPORT

Report number	:	ABCTL/20180918/STK/S1
Sample drawn by	:	ABC Techno Labs India Private Limited
Sample description	:	Source Emission Monitoring
Date of sampling	:	15-09-2018
Report date	:	25-09-2018

Page 1 of 1

S.No	Stack Description	PM (mg/Nm <sup>3</sup> )	SO <sub>x</sub> (mg/Nm <sup>3</sup> )	NO <sub>x</sub> (mg/Nm <sup>3</sup> )
1	Stack attached to Cement Mill	16.1	Not Detected	Not Detected
MoEF Standards		30	Not Specified	Not Specified

Method: IS 11255 Part 1 (Reaff.2003) and Flue Gas Analyser

REMARKS: -Production capacity of the cement plant is 0.66 MTPA.  
Bag filter is attached to Cement mill.

....END OF REPORT....



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A. Robson Chinnadurai  
Technical Manager

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## TEST REPORT

Report number	:	ABCTL/20180424/STK/S1-S4
Sample drawn by	:	ABC Techno Labs India Private Limited
Sample description	:	Source Emission Monitoring
Date of sampling	:	23-04-2018 & 24-04-2018
Report date	:	27-04-2018Page 1 of 1

Date of Sampling	StackDetails	PM(mg/Nm <sup>3</sup> )
23-04-2018	Stack attached to DG Set 1500 KVA - 1	45.7
23-04-2018	Stack attached to DG Set 1500 KVA -2	48.1
24-04-2018	Stack attached to DG Set 1500 KVA -3	49.1
24-04-2018	Stack attached to DG Set 1500 KVA -4	47.5
MoEF Standards		75

Method: IS 11255 Part 1 (Reaff.2003)

Note: All DG set with acoustic enclosure.

....END OF REPORT ....



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*[Signature]*  
27/04/18

A. Robson Chinnadurai  
Technical Manager

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## TEST REPORT

Report number	:	ABCTL/20180515/STK/S1-S4
Sample drawn by	:	ABC Techno Labs India Private Limited
Sample description	:	Source Emission Monitoring
Date of sampling	:	14-05-2018 & 15-05-2018
Report date	:	21-05-2018Page 1 of 1

Date of Sampling	StackDetails	PM(mg/Nm <sup>3</sup> )
14-05-2018	Stack attached to DG Set 1500 KVA - 1	47.1
14-05-2018	Stack attached to DG Set 1500 KVA -2	50.2
15-05-2018	Stack attached to DG Set 1500 KVA -3	48.3
15-05-2018	Stack attached to DG Set 1500 KVA -4	49.7
MoEF Standards		75

Method: IS 11255 Part 1 (Reaff.2003)

Note: All DG set with acoustic enclosure.

....END OF REPORT....



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A. Robson Chinnadurai  
Technical Manager

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## TEST REPORT

Report number	:	ABCTL/20180612/STK/S1-S4
Sample drawn by	:	ABC Techno Labs India Private Limited
Sample description	:	Source Emission Monitoring
Date of sampling	:	11-06-2018 & 12-06-2018
Report date	:	16-06-2018Page 1 of 1

Date of Sampling	StackDetails	PM(mg/Nm <sup>3</sup> )
11-06-2018	Stack attached to DG Set 1500 KVA - 1	44.6
11-06-2018	Stack attached to DG Set 1500 KVA -2	49.3
12-06-2018	Stack attached to DG Set 1500 KVA -3	47.4
12-06-2018	Stack attached to DG Set 1500 KVA -4	48.6
MoEF Standards		75

Method: IS 11255 Part 1 (Reaff.2003)

Note: All DG set with acoustic enclosure.

....END OF REPORT....



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Technical Manager

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## TEST REPORT

Report number	:	ABCTL/20180717/STK/S1-S4
Sample drawn by	:	ABC Techno Labs India Private Limited
Sample description	:	Source Emission Monitoring
Date of sampling	:	16-07-2018 & 17-07-2018
Report date	:	20-07-2018Page 1 of 1

Date of Sampling	StackDetails	PM(mg/Nm <sup>3</sup> )
16-07-2018	Stack attached to DG Set 1500 KVA - 1	47.3
16-07-2018	Stack attached to DG Set 1500 KVA -2	49.6
17-07-2018	Stack attached to DG Set 1500 KVA -3	51.4
17-07-2018	Stack attached to DG Set 1500 KVA -4	45.2
MoEF Standards		75

Method: IS 11255 Part 1 (Reaff.2003)

Note: All DG set with acoustic enclosure.

....END OF REPORT....



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Technical Manager

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## TEST REPORT

Report number	:	ABCTL/20180810/STK/S1-S4
Sample drawn by	:	ABC Techno Labs IndiaPrivate Limited
Sample description	:	Source Emission Monitoring
Date of sampling	:	09-08-2018 & 10-08-2018
Report date	:	14-08-2018Page 1 of 1

Date of Sampling	StackDetails	PM(mg/Nm <sup>3</sup> )
09-08-2018	Stack attached to DG Set 1500 KVA - 1	46.3
09-08-2018	Stack attached to DG Set 1500 KVA -2	52.4
10-08-2018	Stack attached to DG Set 1500 KVA -3	50.7
10-08-2018	Stack attached to DG Set 1500 KVA -4	48.6
MoEF Standards		75

Method: IS 11255 Part 1 (Reaff.2003)

Note: All DG set with acoustic enclosure.

....END OF REPORT....



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A. Robson Chinnadurai  
Technical Manager

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## TEST REPORT

Report number	:	ABCTL/20180915/STK/S1-S4
Sample drawn by	:	ABC Techno Labs India Private Limited
Sample description	:	Source Emission Monitoring
Date of sampling	:	14-09-2018 & 15-09-2018
Report date	:	25-09-2018Page 1 of 1

Date of Sampling	StackDetails	PM(mg/Nm <sup>3</sup> )
14-09-2018	Stack attached to DG Set 1500 KVA - 1	49.2
14-09-2018	Stack attached to DG Set 1500 KVA -2	51.5
15-09-2018	Stack attached to DG Set 1500 KVA -3	48.5
15-09-2018	Stack attached to DG Set 1500 KVA -4	50.3
MoEF Standards		75

Method: IS 11255 Part 1 (Reaff.2003)

Note: All DG set with acoustic enclosure.

....END OF REPORT....



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Technical Manager

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## TEST REPORT

Report number : ABCTL/20180424/NS/N1-N4  
Sample drawn by : ABC Techno Labs IndiaPrivate Limited  
Sample description : Source Noise Level Monitoring-DG set  
Date of sampling : 23-04-2018 & 24-04-2018  
Report date : 27-04-2018Page 1 of 1

S. No.	Location	Noise Level [dB(A)]Leq
		1 m distance from acoustic enclosure Closed
N1	1500 KVA DG Set-1	70.8
N2	1500 KVA DG Set-2	69.9
N3	1500 KVA DG Set-3	68
N4	1500 KVA DG Set-4	67

Method: IS: 4758-1968(Reaff: 2002)-Source

.....END OF REPORT .....



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*[Signature]*  
27/04/18

A. Robson Chinnadurai  
Technical Manager

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## TEST REPORT

Report number : ABCTL/20180515/NS/N1-N4  
Sample drawn by : ABC Techno Labs India Private Limited  
Sample description : Source Noise Level Monitoring-DG set  
Date of sampling : 14-05-2018 & 15-05-2018  
Report date : 21-05-2018

S. No.	Location	Noise Level [dB(A)]Leq 1 m distance from acoustic enclosure Closed
N1	1500 KVA DG Set-1	69.1
N2	1500 KVA DG Set-2	70.6
N3	1500 KVA DG Set-3	69.2
N4	1500 KVA DG Set-4	68.9

Method: IS: 4758-1968(Reaff: 2002)-Source

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## TEST REPORT

Report number : ABCTL/20180612/NS/N1-N4  
Sample drawn by : ABC Techno Labs India Private Limited  
Sample description : Source Noise Level Monitoring-DG set  
Date of sampling : 11-06-2018 & 12-06-2018  
Report date : 16-06-2018 Page 1 of 1

S. No.	Location	Noise Level [dB(A)]Leq 1 m distance from acoustic enclosure Closed
N1	1500 KVA DG Set-1	71.1
N2	1500 KVA DG Set-2	68.4
N3	1500 KVA DG Set-3	68.7
N4	1500 KVA DG Set-4	69.2

Method: IS: 4758-1968(Reaff: 2002)-Source

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## TEST REPORT

Report number : ABCTL/20180717/NS/N1-N4  
Sample drawn by : ABC Techno Labs IndiaPrivate Limited  
Sample description : Source Noise Level Monitoring-DG set  
Date of sampling : 16-07-2018 & 17-07-2018  
Report date : 20-07-2018Page 1 of 1

S. No.	Location	Noise Level [dB(A)]Leq 1 m distance from acoustic enclosure Closed
N1	1500 KVA DG Set-1	70.2
N2	1500 KVA DG Set-2	68.7
N3	1500 KVA DG Set-3	68.6
N4	1500 KVA DG Set-4	69.9

Method: IS: 4758-1968(Reaff: 2002)-Source

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## TEST REPORT

Report number : ABCTL/20180810/NS/N1-N4  
Sample drawn by : ABC Techno Labs India Private Limited  
Sample description : Source Noise Level Monitoring-DG set  
Date of sampling : 09-08-2018 & 10-08-2018  
Report date : 14-08-2018

S. No.	Location	Noise Level [dB(A)] Leq
		1 m distance from acoustic enclosure Closed
N1	1500 KVA DG Set-1	73.1
N2	1500 KVA DG Set-2	71.5
N3	1500 KVA DG Set-3	72.4
N4	1500 KVA DG Set-4	69.7

Method: IS: 4758-1968(Reaff: 2002)-Source

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## TEST REPORT

Report number : ABCTL/20180918/NS/N1-N4  
Sample drawn by : ABC Techno Labs India Private Limited  
Sample description : Source Noise Level Monitoring-DG set  
Date of sampling : 14-09-2018 & 15-09-2018  
Report date : 25-09-2018

S. No.	Location	Noise Level [dB(A)]Leq 1 m distance from acoustic enclosure Closed
N1	1500 KVA DG Set-1	71.4
N2	1500 KVA DG Set-2	69.4
N3	1500 KVA DG Set-3	70.5
N4	1500 KVA DG Set-4	67.6

Method: IS: 4758-1968(Reaff: 2002)-Source

.....END OF REPORT.....



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A. Robson Chinnadurai  
Technical Manager

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• The test results relate only to the items tested. • The test report shall not be reproduced in full or part without the written approval of ABC. • The test items will not be retained for more than 15 days from the date of issue of test report in the case of perishable items unless otherwise requested by the customer. • The laboratory's responsibility under this report is limited to proven willful negligence and will in no case be more than the invoiced amount. • The test report is issued for the purpose of identifying the characteristic and not intended to use for any publicity or litigation purpose.



Issued to :

M/s Topcem India  
Gauripur, North Guwahati  
Dist.:Kamrup(R),Assam



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India Private Limited

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(An ISO : 9001, ISO : 14001, OHSAS : 18001 & ISO : 22000 Certified Company)

ACCREDITED BY NABL, ISO/IEC 17025 : 2005, QUALITY COUNCIL OF INDIA  
RECOGNISED BY MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE (MoEFCC), GOVERNMENT OF INDIA  
&  
NOTIFIED BY FOOD SAFETY STANDARDS AND AUTHORITY OF INDIA (FSSAI)

## TEST REPORT

Report Number	:	TC577018100001018
Sample Drawn by	:	ABC Techno Labs India Private Limited
Sample Description	:	Ambient Air Quality Monitoring -24 Hourly
Location of Sampling	:	Near Workshop & Near Staff Quarter
Date of Sampling	:	03-11-2018 & 04-11-2018
Date of Analysis	:	07-11-2018
Date of Completion	:	12-11-2018
Report Date	:	12-11-2018

Page 1 of 1

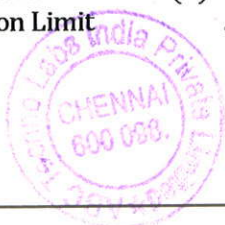
S. No.	Parameters	Test Method	Unit	Results	Standards*
1	Sulphur Dioxide (SO <sub>2</sub> )	IS 5182: Part 2:2001 (Reaff. 2012)	µg/m <sup>3</sup>	5.2	80
2	Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182: Part 6:2006 (Reaff. 2012)	µg/m <sup>3</sup>	11.1	80
3	Particulate Matter size less than 10- µm (PM <sub>10</sub> )	IS 5182 Pt.23 : 2006 (Reaff. 2012)	µg/m <sup>3</sup>	52.6	100
4	Particulate Matter size less than 2.5- µm (PM <sub>2.5</sub> )	40 CFR Appendix L to Part 50	µg/m <sup>3</sup>	32.4	60
5	Ozone (O <sub>3</sub> )	Methods of Air sampling and Analysis 3 <sup>rd</sup> Edn: 1998.Method 411 -1998	µg/m <sup>3</sup>	BDL (<5)	180
6	Lead (Pb)	IS 5182: Part 22: 2004 (Reaff:2009)	µg/m <sup>3</sup>	BDL (<0.1)	1
7	Carbon Monoxide (CO)	IS 5182 (Part 10 ): 1999 (RA 2009)	mg/m <sup>3</sup>	BDL (<1)	4
8	Ammonia (NH <sub>3</sub> )	Methods of Air sampling and Analysis, 3 <sup>rd</sup> Edn- Method 401-1998	µg/m <sup>3</sup>	BDL (<5)	400
9	Benzene (C <sub>6</sub> H <sub>6</sub> )	IS 5182 Part 11 : 2006	µg/m <sup>3</sup>	BDL (<0.1)	5
10	Benzo [a] Pyrene - Particulate Phase only	IS 5182 (Part12): 2004.	ng/m <sup>3</sup>	BDL (<0.1)	1
11	Arsenic (As)	CPCB : NAAQMS/36/2012-13/ ABCTL/SOP/A10	ng/m <sup>3</sup>	BDL (<1)	6
12	Nickel (Ni)	CPCB : NAAQMS/36/2012-13/ ABCTL/SOP/A12	ng/m <sup>3</sup>	BDL (<1)	20

\*National Ambient Air Quality Standards prescribed by Ministry of Environment and Forests, Government of India vide Gazette Notification G.S.R. 826(E) dated 18.11.2009.

BDL- Below Detection Limit

.....End of Report.....

Verified



*[Signature]*  
A. Robson Chinnadurai  
Technical Manager

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# TOPCEM INDIA

VILL & P.O :- GOURIPUR, AMINGAON, NORTH-GUWAHATI, ASSAM.

## BAG FILTER REPORT

Sl No	Details		
1	BAG FILTER LOCATION	TRUCK TRIPPLER	
	BAG FILTE CODE	491 BF1	
	BAG LENGTH	3660 MM	
	BAG DIA	160Ø	
	TOTAL NO OF BAGS	72 NOS	
	FLOW CAPACITY	10000 (AM <sup>3</sup> /HR)	
	NO OF CHAMBER		
2	BAG FILTER LOCATION	TRUCK TRIPPLER	
	BAG FILTE CODE	491 BF2	
	BAG LENGTH	3660 MM	
	BAG DIA	160Ø	
	TOTAL NO OF BAGS	72 NOS	
	FLOW CAPACITY	10000 (AM <sup>3</sup> /HR)	
3	BAG FILTER LOCATION	CLINKER STORACE SILO TOP.	
	BAG FILTE CODE	491 BF3	
	BAG LENGTH	3660 MM	
	BAG DIA	160Ø	
	TOTAL NO OF BAGS	72 NOS	
	FLOW CAPACITY	10000 (AM <sup>3</sup> /HR)	
	NO OF CHAMBER		
4	BAG FILTER LOCATION	CLINKER EXTRACTION BELT CONVEYOR 511 BC3	
	BAG FILTE CODE	511 BF3	
	BAG LENGTH	3660 MM.	
	BAG DIA	160Ø.	
	TOTAL NO OF BAGS	96 NOS.	
	FLOW CAPACITY	12000 (AM <sup>3</sup> /HR)	
5	BAG FILTER LOCATION	GYPSUM STORAGE SHED.	
	BAG FILTE CODE	K21 BF1	
	BAG LENGTH	3660 MM.	
	BAG DIA	160Ø	
	TOTAL NO OF BAGS	36 NOS.	
	FLOW CAPACITY	5000 (AM <sup>3</sup> /HR)	
	NO OF CHAMBER		
6	BAG FILTER LOCATION	GYPSUM CRUSHER HOUSE.	
	BAG FILTE CODE	K21 BF2	
	BAG LENGTH	3660 MM.	
	BAG DIA	160Ø	
	TOTAL NO OF BAGS	72 NOS.	
	FLOW CAPACITY	10000 (AM <sup>3</sup> /HR)	
	NO OF CHAMBER		

7	BAG FILTER LOCATION		CEMENT MILL HOPPER.	
	BAG FILTE CODE		531 BF1	
	BAG LENGTH		3660 MM.	
	BAG DIA		160Ø	
	TOTAL NO OF BAGS		112 NOS.	
	FLOW CAPACITY		15000 (AM <sup>3</sup> /HR)	
	NO OF CHAMBER			
8	BAG FILTER LOCATION		CEMENT MILL HOPPER WEIGH FEEDER.	
	BAG FILTE CODE		531 BF2	
	BAG LENGTH		3660 MM.	
	BAG DIA		160Ø	
	TOTAL NO OF BAGS		112 NOS.	
	FLOW CAPACITY		15000 (AM <sup>3</sup> /HR)	
	NO OF CHAMBER			
9	BAG FILTER LOCATION		CEMENT MILL HOUSE.	
	BAG FILTE CODE		561 BF2	
	BAG LENGTH		3660 MM.	
	BAG DIA		160Ø	
	TOTAL NO OF BAGS		112 NOS.	
	FLOW CAPACITY		15000 (AM <sup>3</sup> /HR)	
	NO OF CHAMBER			
10	BAG FILTER LOCATION		CEMENT MILL HOUSE.	
	BAG FILTE CODE		561 BF1	
	BAG LENGTH		3665 MM.	
	BAG DIA		149Ø	
	TOTAL NO OF BAGS		396 NOS.	
	FLOW CAPACITY		41000 (AM <sup>3</sup> /HR)	
	NO OF CHAMBER			
11	BAG FILTER LOCATION		STEEL SILO TOP.	
	BAG FILTE CODE		591 BF3	
	BAG LENGTH		3660 MM.	
	BAG DIA		160Ø	
	TOTAL NO OF BAGS		36 NOS.	
	FLOW CAPACITY		5000 (AM <sup>3</sup> /HR)	
	NO OF CHAMBER			
12	BAG FILTER LOCATION		RCC CEMENT SILO TOP.	
	BAG FILTE CODE		611 BF1	
	BAG LENGTH		3660 MM.	
	BAG DIA		160Ø	
	TOTAL NO OF BAGS		36 NOS.	
	FLOW CAPACITY		5000 (AM <sup>3</sup> /HR)	
	NO OF CHAMBER			
13	BAG FILTER LOCATION		AIR SLIDE DEDUSTING	
	BAG FILTE CODE		611 BF1	
	BAG LENGTH		3660 MM.	
	BAG DIA		160Ø	
	TOTAL NO OF BAGS		36 NOS.	

	<b>FLOW CAPACITY</b>	5000 (AM <sup>3</sup> /HR)	
	<b>NO OF CHAMBER</b>		
14	<b>BAG FILTER LOCATION</b>	AIR SLIDE DEDUSTING	
	<b>BAG FILTE CODE</b>	611 BF4	
	<b>BAG LENGTH</b>	3660 MM.	
	<b>BAG DIA</b>	160Ø	
	<b>TOTAL NO OF BAGS</b>	36 NOS.	
	<b>FLOW CAPACITY</b>	5000 (AM <sup>3</sup> /HR)	
	<b>NO OF CHAMBER</b>		
15	<b>BAG FILTER LOCATION</b>	PACKER DEDUSTING	
	<b>BAG FILTE CODE</b>	661 BF1	
	<b>BAG LENGTH</b>	3660 MM.	
	<b>BAG DIA</b>	160Ø	
	<b>TOTAL NO OF BAGS</b>	96 NOS.	
	<b>FLOW CAPACITY</b>	12000 (AM <sup>3</sup> /HR)	
	<b>NO OF CHAMBER</b>		
16	<b>BAG FILTER LOCATION</b>	PACKER DEDUSTING	
	<b>BAG FILTE CODE</b>	661 BF2	
	<b>BAG LENGTH</b>	3660 MM.	
	<b>BAG DIA</b>	160Ø	
	<b>TOTAL NO OF BAGS</b>	144 NOS.	
	<b>FLOW CAPACITY</b>	20000 (AM <sup>3</sup> /HR)	
	<b>NO OF CHAMBER</b>		
17	<b>BAG FILTER LOCATION</b>	PACKER DEDUSTING	
	<b>BAG FILTE CODE</b>	662 BF1	
	<b>BAG LENGTH</b>	3660 MM.	
	<b>BAG DIA</b>	160Ø	
	<b>TOTAL NO OF BAGS</b>	96 NOS.	
	<b>FLOW CAPACITY</b>	12000 (AM <sup>3</sup> /HR)	
	<b>NO OF CHAMBER</b>		
18	<b>BAG FILTER LOCATION</b>	PACKER DEDUSTING	
	<b>BAG FILTE CODE</b>	662 BF2	
	<b>BAG LENGTH</b>	3660 MM.	
	<b>BAG DIA</b>	160Ø	
	<b>TOTAL NO OF BAGS</b>	144 NOS.	
	<b>FLOW CAPACITY</b>	20000 (AM <sup>3</sup> /HR)	
	<b>NO OF CHAMBER</b>		



**ANNEXURE-II**

**POLLUTION UNDER CONTROL  
CERTIFICATES (PUC) OF VEHICLES**

M/S TOPCEM INDIA						
PUC VEHICLE MOVEMENT WITHIN PLANT DATA						
MONTH	DATE	NOS. OF VEHICLES	VEHICLE NO	PUC DATA		
				CO%	HC(ppm)	SD(HSU)
	1-Apr-18	5	AS-25AC-1263	-	-	42.82
	1-Apr-18		AS-25AC-1264	-	-	47.53
	1-Apr-18		AS-25AC-1265	-	-	42.82
	1-Apr-18		AS-25AC-1266	-	-	55.82
	1-Apr-18		AS-25AC-1267	-	-	61.17
	2-Apr-18	4	AS-25AC-1268	-	-	57.68
	2-Apr-18		AS-25AC-1269	-	-	47.53
	2-Apr-18		AS-25AC-1270	-	-	57.68
	2-Apr-18		AS-25AC-1271	-	-	51.86
	3-Apr-18	3	AS-25AC-1272	-	-	42.82
	3-Apr-18		AS-25AC-1274	-	-	47.53
	3-Apr-18		AS-25AC-1275	-	-	61.17
	4-Apr-18	4	AS-25AC-1251	-	-	57.68
	4-Apr-18		AS-25AC-1252	-	-	51.86
	4-Apr-18		AS-25AC-1253	-	-	42.82
	4-Apr-18		AS-25AC-1254	-	-	47.53
	5-Apr-18	5	AS-25AC-1255	-	-	47.53
	5-Apr-18		AS-25AC-1256	-	-	42.82
	5-Apr-18		AS-25AC-1257	-	-	55.82
	5-Apr-18		AS-25AC-1258	-	-	61.17
	5-Apr-18		AS-25AC-1259	-	-	57.68
	6-Apr-18	5	AS-25AC-1261	-	-	57.68
	6-Apr-18		AS-25AC-1251	-	-	51.86
	6-Apr-18		AS-25AC-1264	-	-	30.20
	6-Apr-18		AS-25AC-1267	-	-	30.20
	6-Apr-18		AS-25AC-1268	-	-	56.70
	7-Apr-18	4	AS-25AC-1269	-	-	51.06
	7-Apr-18		AS-25AC-1270	-	-	30.20
	7-Apr-18		AS-25AC-1271	-	-	47.53
	7-Apr-18		AS-25AC-1251	-	-	46.30
	8-Apr-18	3	AS-25AC-1268	-	-	33.60
	8-Apr-18		AS-25AC-1265	-	-	13.50
	8-Apr-18		AS01CC-8579	-	-	38.20
	9-Apr-18	4	AS01DC-9723	-	-	57.33
	9-Apr-18		AS01DC-9345	-	-	57.68
	9-Apr-18		AS01BC-7588	-	-	49.50
	9-Apr-18		AS-01EC-2197	-	-	52.10
	10-Apr-18	4	AS-01FC-7312	-	-	57.68
	10-Apr-18		AS01GC-6651	-	-	11.06
	10-Apr-18		AS-01EC-6272	-	-	38.20
	10-Apr-18		AS-01DD-5213	-	-	33.66
	11-Apr-18		AS0-1BC-6598	-	-	47.53

Apr-18

11-Apr-18		NL-01L-0365	-	-	40.66
11-Apr-18		AS01BC-2781	-	-	38.20
11-Apr-18		NL-01Q-8581	-	-	33.25
11-Apr-18	5	AS-25CC-3200	-	-	57.61
12-Apr-18		AS-01GC-6392	-	-	61.80
12-Apr-18		AS01FC-0129	-	-	61.17
12-Apr-18		AS01FC-9437	-	-	21.30
12-Apr-18	4	AS-01AC-2395	-	-	42.82
13-Apr-18		AS01DC-9309	-	-	45.90
13-Apr-18		AP-16TJ-0186	-	-	17.00
13-Apr-18		AS01EC-2197	-	-	62.70
13-Apr-18	4	RJ18GA-2905	-	-	31.00
14-Apr-18		AS01CC-8496	-	-	53.20
14-Apr-18		AS-01CC-7667	-	-	30.20
14-Apr-18		UP32DN-4494	-	-	61.80
14-Apr-18		AS-01EC-0135	-	-	38.20
14-Apr-18	5	AS-25AC-1270	-	-	38.10
15-Apr-18		AS-01DD-7187	-	-	61.17
15-Apr-18		AS-01FC-7035	-	-	30.20
15-Apr-18		AP28TE-6224	-	-	47.53
15-Apr-18	4	AS-25AC-1251	-	-	30.20
16-Apr-18		AS-25AC-1264	-	-	30.20
16-Apr-18		AS-25AC-1267	-	-	45.80
16-Apr-18		AS-25AC-1268	-	-	47.20
16-Apr-18	4	AS-25AC-1251	-	-	49.50
17-Apr-18		AS-25AC-1252	-	-	23.40
17-Apr-18		AS-25AC-1253	-	-	61.20
17-Apr-18	3	AS-25AC-1254	-	-	47.53
18-Apr-18		AP-16TJ-0186	-	-	65.10
18-Apr-18		AS01DC-9737	-	-	55.10
18-Apr-18		AS01DC-9345	-	-	51.86
18-Apr-18	4	AS01DC-9632	-	-	22.66
19-Apr-18		AS01BC-7588	-	-	15.70
19-Apr-18		AS01BC-0055	-	-	53.20
19-Apr-18		AP16TH-7677	-	-	47.53
19-Apr-18	4	AS-01FC-7312	-	-	47.53
20-Apr-18		AS-01EC-9286	-	-	29.87
20-Apr-18		AS01DC-9737	-	-	23.40
20-Apr-18		AS01GC-6651	-	-	44.28
20-Apr-18	4	AS-01GC-5842	-	-	61.17
21-Apr-18		AS-01FC-9906	-	-	61.12
21-Apr-18		AS-01EC-6272	-	-	61.17
21-Apr-18		AS-01EC-0659	-	-	40.70
21-Apr-18	4	AS-01DD-5535	-	-	30.20
22-Apr-18		AS-01DD-5213	-	-	30.20
22-Apr-18		AS-01AC-2395	-	-	38.90
22-Apr-18		AS01DC-9309	-	-	15.90



22-Apr-18		AP-16TJ-0186	-	-	36.30
22-Apr-18	5	AS01EC-2197	-	-	41.20
23-Apr-18		RJ18GA-2905	-	-	22.60
23-Apr-18		AS01CC-8496	-	-	29.40
23-Apr-18		AS-01CC-7667	-	-	32.40
23-Apr-18	4	UP32DN-4494	-	-	41.10
24-Apr-18		AS-01EC-0135	-	-	26.80
24-Apr-18		AS01CC-8496	-	-	27.10
24-Apr-18		AS-01DC-9732			30.10
24-Apr-18	4	AS-01CC-7667			23.60
25-Apr-18		AS-01FC-5275			42.10
25-Apr-18		NL-01K-1761	-	-	56.10
25-Apr-18		AS-01AC-7071	-	-	59.10
25-Apr-18	4	TR-01K-1728	-	-	28.10
26-Apr-18		AS-01GC-8855	-	-	16.40
26-Apr-18		TR01AB-1622	-	-	28.11
26-Apr-18		AS01CC-8579	-	-	42.10
26-Apr-18	4	AS-01EC-9476	-	-	56.00
27-Apr-18		AS-01BC-0799	-	-	47.53
27-Apr-18		AS-01CC-7239	-	-	35.85
27-Apr-18		AS-01C-3151	-	-	38.20
27-Apr-18		AS01CC-2590	-	-	33.25
27-Apr-18	5	NL01K-7665	-	-	49.50
28-Apr-18		AS-01AC-0911	-	-	54.80
28-Apr-18		AS01CC-2590	-	-	47.53
28-Apr-18		AS-01GC-8485	-	-	55.82
28-Apr-18		AS-01AC-8642	-	-	15.60
28-Apr-18	5	AS01DD-2058	-	-	47.53
29-Apr-18		AS-01DD-9886	-	-	30.20
29-Apr-18		AS01AC-5159	-	-	42.82
29-Apr-18		AS01BC-2351	-	-	23.40
29-Apr-18	4	AS01DD-1335	-	-	4.50
30-Apr-18		AS-01FC-9731	-	-	47.53
30-Apr-18		AS-01BC-2351	-	-	30.00
30-Apr-18		AS01EC-7849	-	-	24.60
30-Apr-18	4	AS-01EC-0373	-	-	43.80

M/S TOPCEM INDIA						
PUC VEHICLE MOVEMENT WITHIN PLANT DATA						
MONTH	DATE	NOS. OF VEHICLES	VEHICLE NO	PUC DATA		
				CO%	HC(ppm)	SD(HSU)
	1-May-18	5	AS-25AC-1263	-	-	42.82
	1-May-18		AS-01EC-9476	-	-	47.53
	1-May-18		AS-01BC-0799	-	-	42.82
	1-May-18		AS-01CC-7239	-	-	55.82
	1-May-18		AS-25AC-1267	-	-	61.17
	2-May-18	4	AS-01CC-7667	-	-	57.68
	2-May-18		UP32DN-4494	-	-	47.53
	2-May-18		AS-01EC-0135	-	-	57.68
	2-May-18		AS-25AC-1271	-	-	51.86
	3-May-18	3	AS-25AC-1272	-	-	42.82
	3-May-18		AS-25AC-1274	-	-	47.53
	3-May-18		AS-25AC-1251	-	-	61.17
	4-May-18	4	AS-25AC-1256	-	-	57.68
	4-May-18		AS-25AC-1252	-	-	51.86
	4-May-18		AS-25AC-1253	-	-	42.82
	4-May-18		AS01DC-9723	-	-	47.53
	5-May-18	5	AS-25AC-1255	-	-	47.53
	5-May-18		AS-25AC-1256	-	-	42.82
	5-May-18		AS-25AC-1257	-	-	55.82
	5-May-18		AS-25AC-1258	-	-	61.17
	5-May-18		AS-25AC-1259	-	-	57.68
	6-May-18	5	AS-25AC-1261	-	-	57.68
	6-May-18		AS-25AC-1251	-	-	51.86
	6-May-18		AS-25AC-1264	-	-	30.20
	6-May-18		AS-25AC-1267	-	-	30.20
	6-May-18		AS-25AC-1268	-	-	56.70
	7-May-18	4	AS-25AC-1269	-	-	51.06
	7-May-18		AS-25AC-1270	-	-	30.20
	7-May-18		AS01EC-2197	-	-	47.53
	7-May-18		AS-25AC-1251	-	-	46.30
	8-May-18	3	AS-25AC-1268	-	-	33.60
	8-May-18		AS-25AC-1265	-	-	13.50
	8-May-18		AS01CC-8579	-	-	38.20
	9-May-18	4	AS01DC-9723	-	-	57.33
	9-May-18		AS01DC-9345	-	-	57.68
	9-May-18		AS01BC-7588	-	-	49.50
	9-May-18		AS-01EC-2197	-	-	52.10
	10-May-18	4	AS-01FC-7312	-	-	57.68
	10-May-18		AS01GC-6651	-	-	11.06
	10-May-18		AS-01EC-6272	-	-	38.20
	10-May-18		AS-01DD-5213	-	-	33.66
	11-May-18		AP-16TJ-0186	-	-	47.53

May-18

11-May-18		NL-01L-0365	-	-	40.66
11-May-18		AS01BC-2781	-	-	38.20
11-May-18	4	NL-01Q-8581	-	-	33.25
12-May-18		AS-01GC-6392	-	-	61.80
12-May-18		AS01FC-0129	-	-	61.17
12-May-18	3	AS01FC-9437	-	-	21.30
13-May-18		AS01DC-9309	-	-	45.90
13-May-18		AP-16TJ-0186	-	-	17.00
13-May-18		AS01EC-2197	-	-	62.70
13-May-18	4	RJ18GA-2905	-	-	31.00
14-May-18		AS01CC-8496	-	-	53.20
14-May-18		AS-01CC-7667	-	-	30.20
14-May-18		UP32DN-4494	-	-	61.80
14-May-18	4	AS-01EC-0135	-	-	38.20
15-May-18		AS-01DD-7187	-	-	61.17
15-May-18		AS-01FC-7035	-	-	30.20
15-May-18		AP28TE-6224	-	-	47.53
15-May-18	4	AS-25AC-1251	-	-	30.20
16-May-18		AS-25AC-1264	-	-	30.20
16-May-18		AS-25AC-1267	-	-	45.80
16-May-18		AS-25AC-1268	-	-	47.20
16-May-18	4	AS-25AC-1251	-	-	49.50
17-May-18		AS-25AC-1252	-	-	23.40
17-May-18		AS-25AC-1253	-	-	61.20
17-May-18	3	AS-25AC-1254	-	-	47.53
18-May-18		AP-16TJ-0186	-	-	65.10
18-May-18		AS01DC-9737	-	-	55.10
18-May-18		AS01DC-9345	-	-	51.86
18-May-18	4	AS01DC-9632	-	-	22.66
19-May-18		AS01BC-7588	-	-	15.70
19-May-18		AS01BC-0055	-	-	53.20
19-May-18		AP16TH-7677	-	-	47.53
19-May-18	4	AS-01FC-7312	-	-	47.53
20-May-18		AS-01EC-9286	-	-	29.87
20-May-18		AS01DC-9737	-	-	23.40
20-May-18		AS01GC-6651	-	-	44.28
20-May-18	4	AS-01GC-5842	-	-	61.17
21-May-18		AS-01FC-9906	-	-	61.12
21-May-18		AS-01EC-6272	-	-	61.17
21-May-18		AS-01EC-0659	-	-	40.70
21-May-18	4	AS-01DD-5535	-	-	30.20
22-May-18		AS-01DD-5213	-	-	30.20
22-May-18		AS-01AC-2395	-	-	38.90
22-May-18		AS01DC-9309	-	-	15.90
22-May-18		AP-16TJ-0186	-	-	36.30
22-May-18	5	AS01EC-2197	-	-	41.20
23-May-18		RJ18GA-2905	-	-	22.60



23-May-18		AS01CC-8496	-	-	29.40
23-May-18		AS-01CC-7667	-	-	32.40
23-May-18	4	UP32DN-4494	-	-	41.10
24-May-18		AS-01EC-0135	-	-	26.80
24-May-18		AS01CC-8496	-	-	27.10
24-May-18		AS-01DC-9732			30.10
24-May-18	4	AS-01CC-7667			23.60
25-May-18		AS-01FC-5275			42.10
25-May-18		NL-01K-1761	-	-	56.10
25-May-18		AS-01AC-7071	-	-	59.10
25-May-18	4	TR-01K-1728	-	-	28.10
26-May-18		AS-01GC-8855	-	-	16.40
26-May-18		TR01AB-1622	-	-	28.11
26-May-18		AS01CC-8579	-	-	42.10
26-May-18	4	AS-01EC-9476	-	-	56.00
27-May-18		AS-01BC-0799	-	-	47.53
27-May-18		AS-01CC-7239	-	-	35.85
27-May-18		AS-01C-3151	-	-	38.20
27-May-18		AS01CC-2590	-	-	33.25
27-May-18	5	NL01K-7665	-	-	49.50
28-May-18		AS-01AC-0911	-	-	54.80
28-May-18		AS01CC-2590	-	-	47.53
28-May-18		AS-01GC-8485	-	-	55.82
28-May-18		AS-01AC-8642	-	-	15.60
28-May-18	5	AS01DD-2058	-	-	47.53
29-May-18		AS-01DD-9886	-	-	30.20
29-May-18		AS01AC-5159	-	-	42.82
29-May-18		AS01BC-2351	-	-	23.40
29-May-18	4	AS01DD-1335	-	-	4.50
30-May-18		AS-01FC-9731	-	-	47.53
30-May-18		AS-01BC-2351	-	-	30.00
30-May-18		AS01EC-7849	-	-	24.60
30-May-18	4	AS-01EC-0373	-	-	43.80
31-May-18		AS-01EC-2678	-	-	61.80
31-May-18		AS-01EC-9417	-	-	38.20
31-May-18		AS01BC-1055	-	-	3.50
31-May-18	4	AS-25AC-1269	-	-	49.50

M/S TOPCEM INDIA						
PUC VEHICLE MOVEMENT WITHIN PLANT DATA						
MONTH	DATE	NOS. OF VEHICLES	VEHICLE NO	PUC DATA		
				CO%	HC(ppm)	SD(HSU)
	1-Jun-18	4	AS01DD-1335	-	-	42.10
	1-Jun-18		AS-01BC-4537	-	-	43.20
	1-Jun-18		AS-01EC-4737	-	-	56.20
	1-Jun-18		NL01K-8714	-	-	32.60
	2-Jun-18	4	AS-01AC-0911	-	-	32.60
	2-Jun-18		AS-01EC-0657	-	-	36.40
	2-Jun-18		AS-01C-3151	-	-	42.10
	2-Jun-18		AS01CC-4259	-	-	46.10
	3-Jun-18	3	AS-01DD-2557			32.10
	3-Jun-18		AS-01DD-1299			26.10
	3-Jun-18		AS01BC-1055	-	-	42.86
	4-Jun-18	4	AP28TE-6225	-	-	26.90
	4-Jun-18		AS-01FC-6225	-	-	16.80
	4-Jun-18		AS01CC-8579	-	-	42.40
	4-Jun-18		TR01AB-1622	-	-	33.80
	5-Jun-18	4	AS-01GC-8855	-	-	39.40
	5-Jun-18		AS-01EC-0135	-	-	33.40
	5-Jun-18		AS-01AC-7071	-	-	41.60
	5-Jun-18		NL-01K-1761	-	-	44.20
	6-Jun-18	5	AS-01DC-9732	-	-	61.50
	6-Jun-18		AS-01AC-7071	-	-	55.10
	6-Jun-18		RJ18GA-2905	-	-	34.20
	6-Jun-18		AS01GC-9009	-	-	27.80
	6-Jun-18		AS01EC-2197	-	-	40.60
	7-Jun-18	4	AS-01CC-4061	-	-	48.80
	7-Jun-18		AS01DC-9723	-	-	38.90
	7-Jun-18		AS01DC-9345	-	-	38.60
	7-Jun-18		AS01BC-7588	-	-	41.20
	8-Jun-18	3	AS-01EC-2197	-	-	39.60
	8-Jun-18		AS-01FC-7312	-	-	37.60
	8-Jun-18		AS01GC-6651	-	-	42.30
	9-Jun-18	4	AS-01EC-6272	-	-	26.20
	9-Jun-18		AS-01DD-5213	-	-	52.20
	9-Jun-18		AS0-1BC-6598	-	-	53.40
	9-Jun-18		NL-01L-0365	-	-	26.20
	10-Jun-18	4	AS01BC-2781	-	-	42.10
	10-Jun-18		NL-01Q-8581	-	-	45.70
	10-Jun-18		AS-25CC-3200	-	-	36.90
	10-Jun-18		AS-01GC-6392	-	-	51.80
	11-Jun-18		AS01FC-0129	-	-	49.20
	11-Jun-18		AS01FC-9437	-	-	48.10
	11-Jun-18		AS-01AC-2395	-	-	38.90

Jun-18

11-Jun-18	4	AS01DC-9309	-	-	15.90
12-Jun-18	3	AP-16TJ-0186	-	-	36.30
12-Jun-18		AS01EC-2197	-	-	41.20
12-Jun-18		RJ18GA-2905	-	-	22.60
13-Jun-18	4	AS01CC-8496	-	-	29.40
13-Jun-18		AS-01CC-7667	-	-	32.40
13-Jun-18		UP32DN-4494	-	-	41.10
13-Jun-18	4	AS-01EC-0135	-	-	26.80
14-Jun-18	4	AS01CC-8496	-	-	27.10
14-Jun-18		AS-01DC-9732			30.10
14-Jun-18		AS-01CC-7667			23.60
14-Jun-18	4	AS-01FC-5275			42.10
15-Jun-18	4	NL-01K-1761	-	-	56.10
15-Jun-18		AS-01AC-7071	-	-	59.10
15-Jun-18		TR-01K-1728	-	-	28.10
15-Jun-18	4	AS-01GC-8855	-	-	36.40
16-Jun-18	4	TR01AB-1622	-	-	28.11
16-Jun-18		AS01CC-8579	-	-	42.10
16-Jun-18		AS-01EC-9476	-	-	56.00
16-Jun-18	4	AS-01FC-6225	-	-	32.00
17-Jun-18	3	AS-01FC-7429	-	-	36.10
17-Jun-18		AP28TE-6224	-	-	28.00
17-Jun-18		AS-01DD-0747	-	-	49.80
18-Jun-18	4	AS-01EC-2678	-	-	40.60
18-Jun-18		AS-01EC-9417	-	-	48.80
18-Jun-18		AS01BC-1055	-	-	38.90
18-Jun-18	4	AS01DC-0789	-	-	38.60
19-Jun-18	4	AS-01DD-2557	-	-	41.20
19-Jun-18		AS01CC-4259	-	-	39.60
19-Jun-18		AS-01C-3151	-	-	33.30
19-Jun-18	4	AS-01EC-0657	-	-	37.10
20-Jun-18	4	NL02N-0433	-	-	56.20
20-Jun-18		NL01K-7665	-	-	32.60
20-Jun-18		AS-01AC-0911	-	-	36.10
20-Jun-18	4	AS01CC-2590	-	-	28.10
21-Jun-18	4	AS-01FC-6961	-	-	37.10
21-Jun-18		NL01K-8714	-	-	44.10
21-Jun-18		AS01DD-2058	-	-	56.10
21-Jun-18	4	AS-01DD-9886	-	-	60.80
22-Jun-18	5	AS01AC-5159			61.40
22-Jun-18		AS-01AC-7021			35.40
22-Jun-18		AS01BC-2351	-	-	28.10
22-Jun-18	5	AS-01BC-4537	-	-	36.10
22-Jun-18		AS01DD-1335	-	-	46.10
23-Jun-18		AS-01DD-2155	-	-	56.10
23-Jun-18		AS-01FC-9731	-	-	28.10
23-Jun-18		AS-01BC-2351	-	-	29.30



23-Jun-18	4	AS-01EC-0373	-	-	30.40
24-Jun-18	4	AS01FC-0129	-	-	29.10
24-Jun-18		AS-01DC-9791	-	-	33.40
24-Jun-18		AS-25CC-3200	-	-	50.10
24-Jun-18		NL-01Q-8581	-	-	32.70
25-Jun-18	4	AS01AC-9441	-	-	47.10
25-Jun-18		AS01BC-2781	-	-	29.10
25-Jun-18		AS-01GC-0155	-	-	30.10
25-Jun-18		NL-01L-0365	-	-	28.10
26-Jun-18	4	AS-01AC-8113	-	-	16.60
26-Jun-18		AS-01DC-1525	-	-	28.10
26-Jun-18		AS-01DD-5213	-	-	26.40
26-Jun-18		AS-01FC-9906	-	-	28.40
27-Jun-18	4	AS-01EC-9286	-	-	61.70
27-Jun-18		AP16TH-7677	-	-	23.40
27-Jun-18		AS01DD-9576	-	-	17.40
27-Jun-18		AS01FC-1677	-	-	33.80
28-Jun-18	4	AS01DC-9345	-	-	22.40
28-Jun-18		AS01DC-9309	-	-	45.10
28-Jun-18		AS01DC-9723	-	-	33.40
28-Jun-18		AP-16TJ-0186	-	-	38.10
29-Jun-18	4	AS01GC-5244	-	-	36.10
29-Jun-18		NL01D-3840	-	-	34.40
29-Jun-18		AP-07TJ-0369	-	-	38.70
29-Jun-18		AS01CC-8496	-	-	42.40
30-Jun-18	4	AS-01DC-9732	-	-	46.10
30-Jun-18		AS01DD-1278	-	-	45.10
30-Jun-18		NL-01K-1761	-	-	46.80
30-Jun-18		UP32DN-4494	-	-	28.10

M/S TOPCEM INDIA						
PUC VEHICLE MOVEMENT WITHIN PLANT DATA						
MONTH	DATE	NOS. OF VEHICLES	VEHICLE NO	PUC DATA		
				CO%	HC(ppm)	SD(HSU)
	1-Jul-18	3	AS-25AC-1263	-	-	42.82
	1-Jul-18		AS-01EC-9476	-	-	47.53
	1-Jul-18		AS-01BC-0799	-	-	42.82
	2-Jul-18	3	AS-01CC-7667	-	-	57.68
	2-Jul-18		UP32DN-4494	-	-	47.53
	2-Jul-18		AS-01EC-0135	-	-	57.68
	3-Jul-18	3	AS-25AC-1272	-	-	42.82
	3-Jul-18		AS-25AC-1274	-	-	47.53
	3-Jul-18		AS-25AC-1251	-	-	61.17
	4-Jul-18	4	AS-25AC-1267	-	-	57.68
	4-Jul-18		AS-25AC-1252	-	-	51.86
	4-Jul-18		AS-25AC-1253	-	-	42.82
	4-Jul-18		AS01DC-9723	-	-	47.53
	5-Jul-18	4	AS-25AC-1255	-	-	47.53
	5-Jul-18		AS-25AC-1256	-	-	42.82
	5-Jul-18		AS-25AC-1257	-	-	55.82
	5-Jul-18		AS-25AC-1258	-	-	61.17
	6-Jul-18	4	AS-25AC-1261	-	-	57.68
	6-Jul-18		AS-25AC-1251	-	-	51.86
	6-Jul-18		AS-25AC-1264	-	-	30.20
	6-Jul-18		AS-25AC-1267	-	-	30.20
	7-Jul-18	4	AS-25AC-1269	-	-	51.06
	7-Jul-18		AS-25AC-1270	-	-	30.20
	7-Jul-18		AS01EC-2197	-	-	47.53
	7-Jul-18		AS-25AC-1251	-	-	46.30
	8-Jul-18	3	AS-25AC-1268	-	-	33.60
	8-Jul-18		AS-25AC-1265	-	-	13.50
	8-Jul-18		AS01CC-8579	-	-	38.20
	9-Jul-18	4	AS01DC-9723	-	-	57.33
	9-Jul-18		AS01DC-9345	-	-	57.68
	9-Jul-18		AS01BC-7588	-	-	49.50
	9-Jul-18		AS-01EC-2197	-	-	52.10
	10-Jul-18	4	AS-01FC-7312	-	-	57.68
	10-Jul-18		AS01GC-6651	-	-	11.06
	10-Jul-18		AS-01EC-6272	-	-	38.20
	10-Jul-18		AS-01DD-5213	-	-	33.66
	11-Jul-18	4	AP-16TJ-0186	-	-	47.53
	11-Jul-18		NL-01L-0365	-	-	40.66
	11-Jul-18		AS01BC-2781	-	-	38.20
	11-Jul-18		NL-01Q-8581	-	-	33.25
	12-Jul-18		AS-01GC-6392	-	-	61.80
	12-Jul-18		AS01FC-0129	-	-	61.17

Jul-18

12-Jul-18	3	AS01FC-9437	-	-	21.30
13-Jul-18	4	AS01DC-9309	-	-	45.90
13-Jul-18		AP-16TJ-0186	-	-	17.00
13-Jul-18		AS01EC-2197	-	-	62.70
13-Jul-18	4	RJ18GA-2905	-	-	31.00
14-Jul-18	4	AS01CC-8496	-	-	53.20
14-Jul-18		AS-01CC-7667	-	-	30.20
14-Jul-18		UP32DN-4494	-	-	61.80
14-Jul-18	4	AS-01EC-0135	-	-	38.20
15-Jul-18	4	AS-01DD-7187	-	-	61.17
15-Jul-18		AS-01FC-7035	-	-	30.20
15-Jul-18		AP28TE-6224	-	-	47.53
15-Jul-18	4	AS-25AC-1251	-	-	30.20
16-Jul-18	4	AS-25AC-1264	-	-	30.20
16-Jul-18		AS-25AC-1267	-	-	45.80
16-Jul-18		AS-25AC-1268	-	-	47.20
16-Jul-18	4	AS-25AC-1251	-	-	49.50
17-Jul-18	3	AS-25AC-1252	-	-	23.40
17-Jul-18		AS-25AC-1253	-	-	61.20
17-Jul-18		AS-25AC-1254	-	-	47.53
18-Jul-18	4	AP-16TJ-0186	-	-	45.10
18-Jul-18		AS01DC-9737	-	-	55.10
18-Jul-18		AS01DC-9345	-	-	51.86
18-Jul-18	4	AS01DC-9632	-	-	22.66
19-Jul-18	3	AS01BC-7588	-	-	15.70
19-Jul-18		AS01BC-0055	-	-	53.20
19-Jul-18		AP16TH-7677	-	-	47.53
20-Jul-18	4	AS-01EC-9286	-	-	29.87
20-Jul-18		AS01DC-9737	-	-	23.40
20-Jul-18		AS01GC-6651	-	-	44.28
20-Jul-18	4	AS-01GC-5842	-	-	61.17
21-Jul-18	4	AS-01FC-9906	-	-	61.12
21-Jul-18		AS-01EC-6272	-	-	61.17
21-Jul-18		AS-01EC-0659	-	-	40.70
21-Jul-18	4	AS-01DD-5535	-	-	30.20
22-Jul-18	3	AS-01DD-5213	-	-	30.20
22-Jul-18		AS-01AC-2395	-	-	38.90
22-Jul-18		AS01DC-9309	-	-	15.90
22-Jul-18	3	AP-16TJ-0186	-	-	36.30
23-Jul-18	4	RJ18GA-2905	-	-	22.60
23-Jul-18		AS01CC-8496	-	-	29.40
23-Jul-18		AS-01CC-7667	-	-	32.40
23-Jul-18	4	UP32DN-4494	-	-	41.10
24-Jul-18	4	AS-01EC-0135	-	-	26.80
24-Jul-18		AS01CC-8496	-	-	27.10
24-Jul-18		AS-01DC-9732			30.10
24-Jul-18	4	AS-01CC-7667			23.60

25-Jul-18	4	AS-01FC-5275			42.10
25-Jul-18		NL-01K-1761	-	-	56.10
25-Jul-18		AS-01AC-7071	-	-	59.10
25-Jul-18		TR-01K-1728	-	-	28.10
26-Jul-18	4	AS-01GC-8855	-	-	16.40
26-Jul-18		TR01AB-1622	-	-	28.11
26-Jul-18		AS01CC-8579	-	-	42.10
26-Jul-18		AS-01EC-9476	-	-	56.00
27-Jul-18	4	AS-01BC-0799	-	-	47.53
27-Jul-18		AS-01CC-7239	-	-	35.85
27-Jul-18		AS-01C-3151	-	-	38.20
27-Jul-18		AS01CC-2590	-	-	33.25
28-Jul-18	4	AS-01AC-0911	-	-	54.80
28-Jul-18		AS01CC-2590	-	-	47.53
28-Jul-18		AS-01GC-8485	-	-	55.82
28-Jul-18		AS-01AC-8642	-	-	15.60
29-Jul-18	4	AS-01DD-9886	-	-	30.20
29-Jul-18		AS01AC-5159	-	-	42.82
29-Jul-18		AS01BC-2351	-	-	23.40
29-Jul-18		AS01DD-1335	-	-	4.50
30-Jul-18	4	AS-01FC-9731	-	-	47.53
30-Jul-18		AS-01BC-2351	-	-	30.00
30-Jul-18		AS01EC-7849	-	-	24.60
30-Jul-18		AS-01EC-0373	-	-	43.80
31-Jul-18	3	AS-01EC-2678	-	-	61.80
31-Jul-18		AS-01EC-9417	-	-	38.20
31-Jul-18		AS01BC-1055	-	-	33.50



M/S TOPCEM INDIA						
PUC VEHICLE MOVEMENT WITHIN PLANT DATA						
MONTH	DATE	NOS. OF VEHICLES	VEHICLE NO	PUC DATA		
				CO%	HC(ppm)	SD(HSU)
	1-Aug-18	4	AS-25AC-1263	-	-	42.82
	1-Aug-18		TR01AB-1622	-	-	47.53
	1-Aug-18		AS01CC-8579	-	-	42.82
	1-Aug-18		AS-01EC-9476	-	-	55.82
	2-Aug-18	4	AS-25AC-1268	-	-	57.68
	2-Aug-18		AS01BC-1055	-	-	47.53
	2-Aug-18		AP-28TE-6225	-	-	57.68
	2-Aug-18		AS-01FC-6225	-	-	51.86
	3-Aug-18	3	AS01CC-8579	-	-	42.82
	3-Aug-18		TR01AB-1622	-	-	47.53
	3-Aug-18		AS-01GC-8855	-	-	61.17
	4-Aug-18	4	AS-25AC-1251	-	-	57.68
	4-Aug-18		AS-25AC-1252	-	-	51.86
	4-Aug-18		AS-25AC-1253	-	-	42.82
	4-Aug-18		AS-25AC-1254	-	-	47.53
	5-Aug-18	5	AS-25AC-1255	-	-	47.53
	5-Aug-18		AS-25AC-1256	-	-	42.82
	5-Aug-18		AS-25AC-1257	-	-	55.82
	5-Aug-18		AS-25AC-1258	-	-	61.17
	5-Aug-18		AS-25AC-1259	-	-	57.68
	6-Aug-18	5	AS-25AC-1261	-	-	57.68
	6-Aug-18		AS-25AC-1256	-	-	51.86
	6-Aug-18		AS-25AC-1264	-	-	30.20
	6-Aug-18		AS-25AC-1267	-	-	30.20
	6-Aug-18		AS-25AC-1268	-	-	56.70
	7-Aug-18	4	AS-25AC-1269	-	-	51.06
	7-Aug-18		AS-25AC-1270	-	-	30.20
	7-Aug-18		AS-25AC-1275	-	-	47.53
	7-Aug-18		AS-25AC-1251	-	-	46.30
	8-Aug-18	3	AS-25AC-1268	-	-	33.60
	8-Aug-18		AS-25AC-1265	-	-	13.50
	8-Aug-18		AS01CC-8579	-	-	38.20
	9-Aug-18	4	AS01DC-9723	-	-	57.33
	9-Aug-18		AS01DC-9345	-	-	57.68
	9-Aug-18		AS01BC-7588	-	-	49.50
	9-Aug-18		AS-01EC-2197	-	-	52.10
	10-Aug-18	4	AS-01FC-7312	-	-	57.68
	10-Aug-18		AS01GC-6651	-	-	11.06
	10-Aug-18		AS-01EC-6272	-	-	38.20
	10-Aug-18		AS-01DD-5213	-	-	33.66
	11-Aug-18		AS0-1BC-6598	-	-	47.53
	11-Aug-18		NL-01L-0365	-	-	40.66

Aug-18

11-Aug-18		AS01BC-2781	-	-	38.20
11-Aug-18		NL-01Q-8581	-	-	33.25
11-Aug-18	5	AS-25CC-3200	-	-	57.61
12-Aug-18		AS-01GC-6392	-	-	61.80
12-Aug-18		AS01FC-0129	-	-	61.17
12-Aug-18		AS01FC-9437	-	-	21.30
12-Aug-18	4	AS-01AC-2395	-	-	42.82
13-Aug-18		AS01DC-9309	-	-	45.90
13-Aug-18		AP-16TJ-0186	-	-	17.00
13-Aug-18		AS01EC-2197	-	-	62.70
13-Aug-18	4	RJ18GA-2905	-	-	31.00
14-Aug-18		AS01CC-8496	-	-	53.20
14-Aug-18		AS-01CC-7667	-	-	30.20
14-Aug-18		UP32DN-4494	-	-	61.80
14-Aug-18	5	AS-25AC-1270	-	-	38.10
15-Aug-18		AS-01DD-7187	-	-	61.17
15-Aug-18		AS-01FC-7035	-	-	30.20
15-Aug-18		AP28TE-6224	-	-	47.53
15-Aug-18	4	AS-25AC-1251	-	-	30.20
16-Aug-18		AS-25AC-1264	-	-	30.20
16-Aug-18		AS-25AC-1267	-	-	45.80
16-Aug-18		AS-25AC-1268	-	-	47.20
16-Aug-18	4	AS-25AC-1251	-	-	49.50
17-Aug-18		AS-25AC-1252	-	-	23.40
17-Aug-18		AS-25AC-1253	-	-	61.20
17-Aug-18	3	AS-25AC-1254	-	-	47.53
18-Aug-18		AP-16TJ-0186	-	-	65.10
18-Aug-18		AS01DC-9737	-	-	55.10
18-Aug-18		AS01DC-9345	-	-	51.86
18-Aug-18	4	AS01DC-9632	-	-	22.66
19-Aug-18		AS01BC-7588	-	-	15.70
19-Aug-18		AS01BC-0055	-	-	53.20
19-Aug-18		AP16TH-7677	-	-	47.53
19-Aug-18	4	AS-01FC-7312	-	-	47.53
20-Aug-18		AS-01EC-9286	-	-	29.87
20-Aug-18		AS01DC-9737	-	-	23.40
20-Aug-18		AS01GC-6651	-	-	44.28
20-Aug-18	4	AS-01GC-5842	-	-	61.17
21-Aug-18		AS-01FC-9906	-	-	61.12
21-Aug-18		AS-01EC-6272	-	-	61.17
21-Aug-18		AS-01EC-0659	-	-	40.70
21-Aug-18	4	AS-01DD-5535	-	-	30.20
22-Aug-18		AS-01DD-5213	-	-	30.20
22-Aug-18		AS-01AC-2395	-	-	38.90
22-Aug-18		AS01DC-9309	-	-	15.90
22-Aug-18		AP-16TJ-0186	-	-	36.30
22-Aug-18	5	AS01EC-2197	-	-	41.20

23-Aug-18	4	RJ18GA-2905	-	-	22.60
23-Aug-18		AS01CC-8496	-	-	29.40
23-Aug-18		AS-01CC-7667	-	-	32.40
23-Aug-18		UP32DN-4494	-	-	41.10
24-Aug-18	4	AS-01EC-0135	-	-	26.80
24-Aug-18		AS01CC-8496	-	-	27.10
24-Aug-18		AS-01DC-9732			30.10
24-Aug-18		AS-01CC-7667			23.60
25-Aug-18	4	AS-01FC-5275			42.10
25-Aug-18		NL-01K-1761	-	-	56.10
25-Aug-18		AS-01AC-7071	-	-	59.10
25-Aug-18		TR-01K-1728	-	-	28.10
26-Aug-18	4	AS-01GC-8855	-	-	16.40
26-Aug-18		TR01AB-1622	-	-	28.11
26-Aug-18		AS01CC-8579	-	-	42.10
26-Aug-18		AS-01EC-9476	-	-	56.00
27-Aug-18	5	AS-01BC-0799	-	-	47.53
27-Aug-18		AS-01CC-7239	-	-	35.85
27-Aug-18		AS-01C-3151	-	-	38.20
27-Aug-18		AS01CC-2590	-	-	33.25
27-Aug-18		NL01K-7665	-	-	49.50
28-Aug-18	5	AS-01AC-0911	-	-	54.80
28-Aug-18		AS01CC-2590	-	-	47.53
28-Aug-18		AS-01GC-8485	-	-	55.82
28-Aug-18		AS-01AC-8642	-	-	15.60
28-Aug-18		AS01DD-2058	-	-	47.53
29-Aug-18	4	AS-01DD-9886	-	-	30.20
29-Aug-18		AS01AC-5159	-	-	42.82
29-Aug-18		AS01BC-2351	-	-	23.40
29-Aug-18		AS01DD-1335	-	-	4.50
30-Aug-18	4	AS-01FC-9731	-	-	47.53
30-Aug-18		AS-01BC-2351	-	-	30.00
30-Aug-18		AS01EC-7849	-	-	24.60
30-Aug-18		AS-01EC-0373	-	-	43.80
31-Aug-18	4	AS-25AC-1264	-	-	30.20
31-Aug-18		AS-25AC-1267	-	-	45.80
31-Aug-18		AS-25AC-1268	-	-	47.20
31-Aug-18		AS-25AC-1251	-	-	49.50

M/S TOPCEM INDIA						
PUC VEHICLE MOVEMENT WITHIN PLANT DATA						
MONTH	DATE	NOS. OF VEHICLES	VEHICLE NO	PUC DATA		
				CO%	HC(ppm)	SD(HSU)
	1-Aug-18	4	AS-25AC-1252	-	-	61.17
	1-Aug-18		AS-25AC-1253	-	-	40.70
	1-Aug-18		AS-25AC-1254	-	-	30.20
	1-Aug-18		AP-16TJ-0186	-	-	30.20
	2-Aug-18	4	AS01DC-9737	-	-	56.70
	2-Aug-18		AS01DC-9345	-	-	30.20
	2-Aug-18		AP-28TE-6225	-	-	62.70
	2-Aug-18		AS01DD-1335	-	-	53.20
	3-Aug-18	3	AS-01FC-9731	-	-	13.50
	3-Aug-18		AS-01BC-2351	-	-	13.40
	3-Aug-18		AS01EC-7849	-	-	22.60
	4-Aug-18	4	AS-01EC-0373	-	-	33.40
	4-Aug-18		AS-25AC-1264	-	-	45.20
	4-Aug-18		AS-25AC-1253	-	-	65.10
	4-Aug-18		AS-25AC-1254	-	-	55.10
	5-Aug-18	5	AS-25AC-1255	-	-	51.86
	5-Aug-18		AS-25AC-1256	-	-	22.66
	5-Aug-18		AS-25AC-1257	-	-	15.70
	5-Aug-18		AS-25AC-1258	-	-	53.20
	5-Aug-18		AS-25AC-1259	-	-	47.53
	6-Aug-18	5	AS-25AC-1261	-	-	47.53
	6-Aug-18		AS-25AC-1256	-	-	29.87
	6-Aug-18		AS-25AC-1264	-	-	23.40
	6-Aug-18		AS-25AC-1267	-	-	44.28
	6-Aug-18		AS-25AC-1268	-	-	61.17
	7-Aug-18	4	AS-25AC-1269	-	-	61.12
	7-Aug-18		AS-25AC-1270	-	-	61.17
	7-Aug-18		AS-25AC-1275	-	-	40.70
	7-Aug-18		AS-25AC-1251	-	-	30.20
	8-Aug-18	3	AS-25AC-1268	-	-	30.20
	8-Aug-18		AS-25AC-1265	-	-	56.70
	8-Aug-18		AS01CC-8579	-	-	30.20
	9-Aug-18	4	AS01DC-9723	-	-	47.53
	9-Aug-18		AS01DC-9345	-	-	47.53
	9-Aug-18		AS01BC-7588	-	-	13.50
	9-Aug-18		AS-01EC-2197	-	-	38.20
	10-Aug-18	4	AS-01FC-7312	-	-	30.00
	10-Aug-18		AS01GC-6651	-	-	61.17
	10-Aug-18		AS-01EC-6272	-	-	57.68
	10-Aug-18		AS-01DD-5213	-	-	49.50
	11-Aug-18		AS0-1BC-6598	-	-	52.10
	11-Aug-18		NL-01L-0365	-	-	57.68



Aug-18

11-Aug-18		AS01BC-2781	-	-	11.06
11-Aug-18		NL-01Q-8581	-	-	38.20
11-Aug-18	5	AS-25CC-3200	-	-	21.30
12-Aug-18		AS-01GC-6392	-	-	47.53
12-Aug-18		AS01FC-0129	-	-	35.85
12-Aug-18		AS01FC-9437	-	-	38.20
12-Aug-18	4	AS-01AC-2395	-	-	33.25
13-Aug-18		AS01DC-9309	-	-	49.50
13-Aug-18		AP-16TJ-0186	-	-	54.80
13-Aug-18		AS01EC-2197	-	-	47.53
13-Aug-18	4	RJ18GA-2905	-	-	55.82
14-Aug-18		AS01CC-8496	-	-	15.60
14-Aug-18		AS-01CC-7667	-	-	47.53
14-Aug-18		UP32DN-4494	-	-	30.20
14-Aug-18	5	AS-25AC-1270	-	-	42.82
15-Aug-18		AS-01DD-7187	-	-	23.40
15-Aug-18		AS-01FC-7035	-	-	4.50
15-Aug-18		AP28TE-6224	-	-	47.53
15-Aug-18	4	AS-25AC-1251	-	-	30.00
16-Aug-18		AS-25AC-1264	-	-	24.60
16-Aug-18		AS-25AC-1267	-	-	43.80
16-Aug-18		AS-25AC-1268	-	-	30.20
16-Aug-18	4	AS-25AC-1251	-	-	61.17
17-Aug-18		AS-25AC-1252	-	-	61.17
17-Aug-18		AS-25AC-1253	-	-	42.82
17-Aug-18	3	AS-25AC-1254	-	-	61.17
18-Aug-18		AP-16TJ-0186	-	-	49.50
18-Aug-18		AS01GC-6651	-	-	52.10
18-Aug-18		AS-01EC-6272	-	-	57.68
18-Aug-18	4	AS-01DD-5213	-	-	11.06
19-Aug-18		AS0-1BC-6598	-	-	38.20
19-Aug-18		NL-01L-0365	-	-	21.30
19-Aug-18		AS01BC-2781	-	-	47.53
19-Aug-18	4	NL-01Q-8581	-	-	35.85
20-Aug-18		AS-25CC-3200	-	-	15.70
20-Aug-18		AS-01GC-6392	-	-	30.20
20-Aug-18		AS01FC-0129	-	-	30.20
20-Aug-18	4	AS01FC-9437	-	-	42.82
21-Aug-18		AS-01FC-9906	-	-	26.86
21-Aug-18		AS-01EC-6272	-	-	30.20
21-Aug-18		AS01CC-8496	-	-	61.80
21-Aug-18	4	AS-01CC-7667	-	-	61.17
22-Aug-18		UP32DN-4494	-	-	21.30
22-Aug-18		AS-01EC-0135	-	-	42.82
22-Aug-18		AS01CC-8496	-	-	45.90
22-Aug-18		AS-01DC-9732	-	-	17.00
22-Aug-18	5	AS-01CC-7667	-	-	62.70

23-Aug-18		AS-01FC-5275	-	-	31.00
23-Aug-18		NL-01K-1761	-	-	53.20
23-Aug-18		AS-01CC-7667	-	-	30.20
23-Aug-18	4	UP32DN-4494	-	-	61.80
24-Aug-18		AS-01EC-0135	-	-	38.20
24-Aug-18		AS01CC-8496	-	-	3.50
24-Aug-18		AS-01DC-9732			61.17
24-Aug-18	4	AS-01CC-7667			30.20
25-Aug-18		AS-01FC-5275			47.53
25-Aug-18		NL-01K-1761	-	-	30.20
25-Aug-18		AS-01AC-7071	-	-	30.20
25-Aug-18	4	TR-01K-1728	-	-	45.80
26-Aug-18		AS-01GC-8855	-	-	47.20
26-Aug-18		TR01AB-1622	-	-	49.50
26-Aug-18		AS01CC-8579	-	-	23.40
26-Aug-18	4	AS-01EC-9476	-	-	61.20
27-Aug-18		AS-01BC-0799	-	-	47.53
27-Aug-18		AS-01CC-7239	-	-	47.53
27-Aug-18		AS-01C-3151	-	-	30.20
27-Aug-18		AS01CC-2590	-	-	29.80
27-Aug-18	5	NL01K-7665	-	-	42.82
28-Aug-18		AS-01AC-0911	-	-	57.68
28-Aug-18		AS01CC-2590	-	-	52.30
28-Aug-18		AS-01GC-8485	-	-	42.82
28-Aug-18		AS-01AC-8642	-	-	30.00
28-Aug-18	5	AS01DD-2058	-	-	61.17
29-Aug-18		AS-01DD-9886	-	-	45.90
29-Aug-18		AS01AC-5159	-	-	29.87
29-Aug-18		AS01BC-2351	-	-	47.53
29-Aug-18	4	AS01DD-1335	-	-	19.50
30-Aug-18		AS-01FC-9731	-	-	22.60
30-Aug-18		AS-01BC-2351	-	-	51.60
30-Aug-18		AS-01BC-0799	-	-	42.82
30-Aug-18	4	AS-01CC-7667	-	-	52.20
31-Aug-18		UP32DN-4494	-	-	53.40
31-Aug-18		AS-01EC-0135	-	-	26.20
31-Aug-18		AS-25AC-1268	-	-	42.10
31-Aug-18	4	AS-25AC-1251	-	-	45.70

# **ANNEXURE-III**

## **ONLINE STACK EMISSION REPORT**

**TOPCEM INDIA**  
**Gauripur**

ONLINE OPACITY METER READING MONTH WISE			
<u><b>April'18</b></u>			
<u><b>Date</b></u>	<u><b>Average</b></u>	<u><b>Min</b></u>	<u><b>Max</b></u>
Monthly	15.10	12.60	16.70
<u><b>May'18</b></u>			
<u><b>Date</b></u>	<u><b>Average</b></u>	<u><b>Min</b></u>	<u><b>Max</b></u>
Monthly	14.60	11.90	15.80
<u><b>June'18</b></u>			
<u><b>Date</b></u>	<u><b>Average</b></u>	<u><b>Min</b></u>	<u><b>Max</b></u>
Monthly	14.70	12.90	15.90
<u><b>July'18</b></u>			
<u><b>Date</b></u>	<u><b>Average</b></u>	<u><b>Min</b></u>	<u><b>Max</b></u>
Monthly	14.90	13.40	15.50
<u><b>August'18</b></u>			
<u><b>Date</b></u>	<u><b>Average</b></u>	<u><b>Min</b></u>	<u><b>Max</b></u>
Monthly	14.80	12.20	15.20
<u><b>September'18</b></u>			
<u><b>Date</b></u>	<u><b>Average</b></u>	<u><b>Min</b></u>	<u><b>Max</b></u>
Monthly	14.60	13.10	16.30





**ANNEXURE-IV**

**ITEM WISE COST OF CSR ACTIVITIES**

**April 2018- September 2018**



**ENVIRONMENTAL CLEARANCE (EC) COMPLIANCE STATEMENT FOR  
PERIOD OF APRIL 2018 TO SEPTEMBER 2018**

**Item-wise Corporate Social Responsibility details**

**For period of April 2018-September 2018**

Following activities have completed as a part of CSR in the above said period:

Sl. No.	Activities	Cost Incurred (INR)
<b>Village Infrastructure</b>		
1	Drinking water is providing free of cost by M/s Topcem India to nearby village per month@50000/-	3,00,000.00
2	Construction of <b>DADARA MAHAPRABHU SHRI SHRI GOPAL THAN</b> ,Village DADARA ,Kamrup (R) ,Assam	18,350.00
3	Construction of <b>DADARA SARBAJANIN SHREE SHREE DURGA</b> ,Village DADARA ,Kamrup (R) ,Assam -781104	18,350.00
4	Construction of <b>OM PRABHU MAHAKAL MANDIR</b> at Sualkuchi, Kamrup ,Assam	21,600.00
5	Donated cement PPC to HEMA SAIKIA at Gotanagar, near hotel Radison blue,Jalukbari, Kamrup ,Assam-781033	36,700.00
6	Donated cement PPC to <b>BIPUL DEKA</b> at Kolbari,Abhoypur ,North-Guwahati ,Assam-781031	18,350.00
7	Donated cement PPC to <b>SANJEEVANI</b> ,kamakhya temple,Kamrup ,Assam	14,680.00
8	Construction of <b>DAMODAR SANGHA PUJA MANDAP NIRMAN AT</b> Sualkuchi ,Kamrup ,Assam	18,350.00
9	Construction of <b>SHRI SHRI PORAVITA SATRA</b> AT Ramdia , Hajo ,Kamrup ,Assam	93,750.00
10	Construction of <b>132 KV SUB STATION</b> ,Shishu gram,North Guwahati ,Kamrup (R) ,Assam	3,600.00
	<b>Total</b>	<b>5,43,730.00</b>
<b>Welfare Activities</b>		
1	Donated Rs. <b>2000/-</b> to <b>KAMRUP JILA SISHU BIKASH SAMAROH</b> for their function	2,000.00
2	Bihu activity with inmates of Old Age homes, Schools for Challenged Children, Orphanage etc. Conducted every year during Rongali bihu. The occasion is celebrated with the inmates of various of these organisations who are deprived of such festivities.	1,00,000.00
3	20 Cataract patients from Chikonja Para Boko were operated in Srimanta Sankaradeva Nethralaya sponsored by Topcem. The patients were identified after a free Eye Check Up camp was conducted by Sri Sankaradeva Nethralaya with the support Topcem Cement.	1,18,000.00



**ENVIRONMENTAL CLEARANCE (EC) COMPLIANCE STATEMENT FOR  
PERIOD OF APRIL 2018 TO SEPTEMBER 2018**

4	200 Fruit Tree saplings were planted in the Assam State zoo and botanical garden area in Guwahati. It was done on the occasion of World Environment Day on the 5th of June 2018. The event was conducted in association with Rajyik Pokhi Surakha Parishad, an NGO working towards Environmental Development in the region.	3,00,000.00
5	More than 1000 Drinking Water bottle were distributed among the pilgrims visiting the Ambubuchi Mela in Kamakhya Temple. Water bottles were distributed in the first three days of the Occasion.	30,000.00
6	Supporting Government of India's "Proper Sanitation for all" Campaign, Topcem Cement distributed 5 nos. of Toilet Block facilities in Assam especially for the girl students, at Geetanagar High School, Guwahati, Kamrup (M)-2nos, Changsari High School, Kamrup (R)-2 nos, Changsari Market, Changsari -1no.	5,00,000.00
7	As a part Swach Bharat initiative, Topcem cleared all the left out Viswakarma Idols from various localities of Guwahati. It's a common practise in the city to leave the old Viswakarma idols by the road side after the puja offerings. Topcem takes initiative to dispose these idols to places designated by the local authorities. More than 3000 idols were removed.	1,00,000.00
	<b>Total</b>	<b>11,50,000.00</b>
	<b>Grand Total</b>	<b>16,93,730.00</b>

Note\*The costing has rounded off to its nearest value.

# **ANNEXURE-V**

## **RAIN WATER HARVESTING STRUCTURES**





# **ANNEXURE-VI**

## **OCCUPATIONAL HEALTH SURVEILLANCE**



## Patient Information

Name **Niladhar Boushya**  
ID 0000  
Age 23  
Height 160 cm  
Weight 60 kg BMI 23.4  
Gender Male  
Ethnicity South-East Asian

## Test Information

Test Type  
Test Date  
Post Time  
Interpretation  
Predicted  
Value Selection  
BTPS (IN/EX)

**NH Narayana Bafna**  
FVL (ex/in)  
6/28/2018 12:16:22 PM  
Specialty Hospital

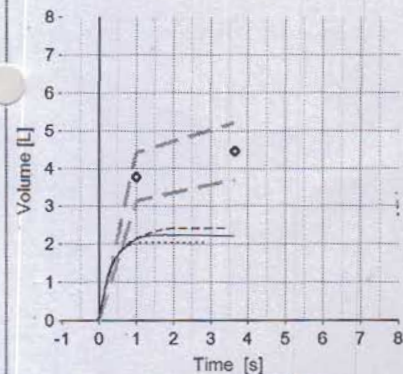
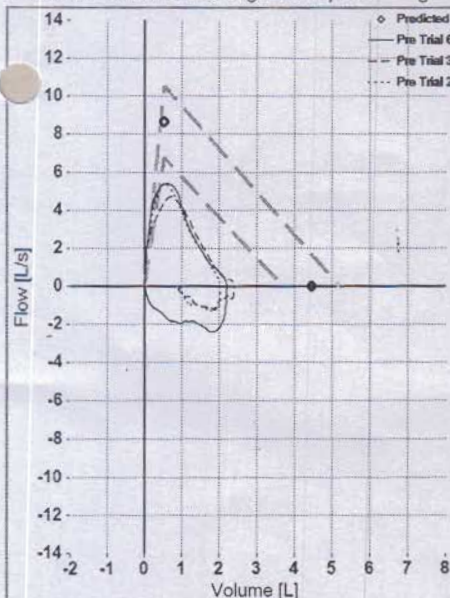
Unit of Narayana Health  
GOLD(2008)/Hardie  
Subhakaran Jain Bafna  
NHANES III \* 1.00  
Best Value  
1.12/1.02

## Test Result

Your FEV1 / Predicted: 57%

Parameter	Pred	LLN	Best	Trial 6	Trial 3	Trial 2	%Pred
FVC [L]	4.45	3.70	2.42*	2.23*	2.42*	2.05*	54
FEV1 [L]	3.77	3.13	2.14*	2.12*	2.14*	2.02*	57
FEV1/FVC	0.833	0.736	0.886	0.947	0.886	0.985	106
FEF25-75% [L/s]	4.20	2.91	2.95	2.95	2.78*	3.30	70
PEF [L/s]	8.66	6.78	5.44*	5.41*	4.71*	5.44*	63
FET [s]	-	-	1.8	1.8	2.2	2.3	-
FIVC [L]	4.45	3.70	2.18*	2.18*	1.50*	1.12*	49
PIF [L/s]	-	-	2.42	2.42	1.25	1.31	-
Session Quality	Pre	C (FEV1 Var=0.03L (1.2%); FVC Var=0.18L (7.5%))					
System Interpretation	Pre	Restriction probable; further examination recommended					

\* Indicates below LLN or significant post change.



Last Reviewer 3/6/28/2018



nddReportForced  
**NH Helpline**  
8811 888 888

Narayana Hrudayalaya Limited

(Previously Narayana Hrudayalaya Pvt. Ltd.) CIN: U85110KA2000PLC027497

Near Tolaram Bafna Medical Complex, Amingaon, Guwahati - 781031, Assam

Tel: +91 361 2680 321, Fax: +91 361 2680 322. guwahati@nhhospitals.org, www.narayanahealth.org

Registered Office: 258/A, Bommasandra Industrial Area, Anekal Taluk, Bangalore 560099





**NH Narayana**  
Superspeciality Hospital

**Bafna**

Patient Name : NILADHAR BAISHYA  
MRN : 17550000115642  
Age/Sex : 49Y/M

Requested By Unit of Narayana Health  
Procedure Date : 28-06-2018 11:34  
Hospital : NH-GUWAHATI

**CHEST RADIOGRAPH (PA VIEW)**

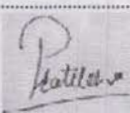
**CLINICAL DETAILS:** For executive health checkup.

**FINDINGS:**

- The lung fields and bronchovascular markings appear normal.
- The cardiac size is within normal limits.
- Mediastinum and great vessels are within normal limits.
- Trachea is normal and is central. The hilar shadows are unremarkable.
- The costo-phrenic angles are clear. No evidence of pleural effusion or pneumothorax.
- There is old fracture of lateral end of left clavicle.
- Both the diaphragmatic domes appear normal.

**IMPRESSION:**

- No significant abnormality detected.

* This is a digitally signed valid document		Signature	Date / Time
Digitally validated and reported by	Dr. Pratibha Patil MD Consultant Radiologist		28-6-2018 13:50:00
Transcribed by	Ms. Reshmi Krishnan	-	-

*This report has been generated from NH Teleradiology 24/7, a service of Narayana Hrudayalaya Hospitals.*

Page 1 of 1



**PATIENT HELPLINE**  
**186-0208-0208**

**Narayana Hrudayalaya Limited**

(Previously Narayana Hrudayalaya Pvt. Ltd.) CIN No.: L85110KA2000PTC027497

Near Tolaram Bafna medical complex, Amingoon, Guwahati 781031, Assam

186 0208 0208 (24/7 Helpline no.), Mob: +91 8811 003030, guwahati@nhhospitals.org, www.narayanahealth.org

Registered Office: 258/A, Bommasandra Industrial Area, Anekal Taluk, Bangalore 562158

Corporate Office: 261/A, 2nd Floor, Bommasandra Industrial Area, Anekal Taluk, Bangalore 562158



## Patient Information

Name Rajbongshi, Mr. Nirmal  
ID 0000115656  
Age 43  
Height 158 cm  
Weight 43 kg BMI 17.2  
Gender Male  
Ethnicity South-East Asian

## Test Information

Test Type  
Test Date  
Post Time  
Interpretation  
Predicted  
Value Selection  
BTPS (IN/EX)

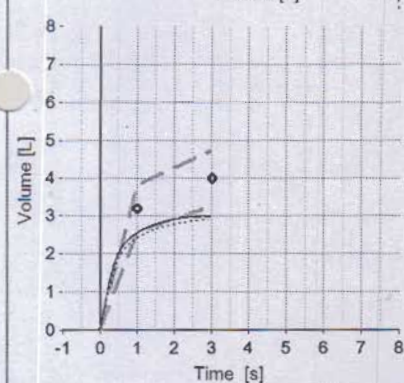
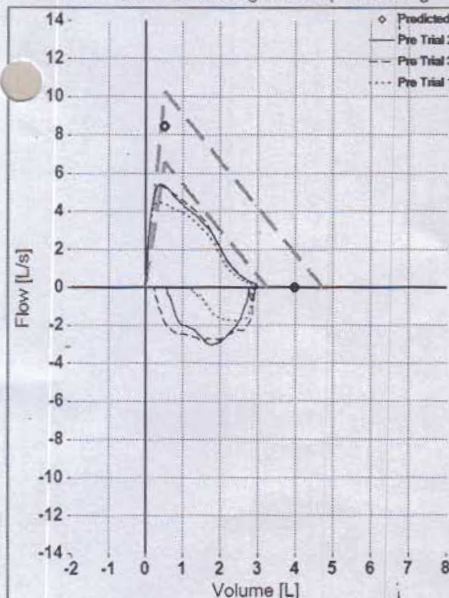
**NH Narayana Bafna**  
FVL (ex/in)  
6/28/2016 3:52:26 AM Hospital  
Unit of Narayana Health  
GOLD(2008) Hardle  
GOLD(2008) Hardle  
NHANES III \* 1.00  
Best Value  
1.12/1.02

## Test Result

Your FEV1 / Predicted: 80%

Parameter	Pred	LLN	Pre Best	Trial 2	Trial 3	Trial 1	%Pred
FVC [L]	3.99	3.25	2.99*	2.99*	2.97*	2.89*	75
FEV1 [L]	3.19	2.57	2.55*	2.54*	2.55*	2.41*	80
FEV1/FVC	0.791	0.695	0.853	0.849	0.860	0.835	108
FEF25-75% [L/s]	3.13	1.87	2.91	2.91	3.00	2.68	93
PEF [L/s]	8.43	6.61	5.43*	5.43*	5.36*	4.51*	64
FET [s]	-	-	2.8	2.8	2.9	2.9	-
FIVC [L]	3.99	3.25	2.92*	2.40*	2.72*	1.63*	73
PIF [L/s]	-	-	3.10	3.04	2.82	1.78	-
Session Quality	Pre	A (FEV1 Var=0.01L (0.5%); FVC Var=0.02L (0.8%))					
System Interpretation	Pre	Restriction probable; further examination recommended					

\* Indicates below LLN or significant post change.



nddReportForced  
**NH Helpline**  
8811 888 888

Narayana Hrudayalaya Limited

(Previously Narayana Hrudayalaya Pvt. Ltd.) CIN: U85110KA2000PLC027497

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Tel: +91 361 2680 321, Fax: +91 361 2680 322, guwahati@nhhospitals.org, www.narayanahealth.org

Registered Office: 258/A, Bommasandra Industrial Area, Anekal Taluk, Bangalore 560099

Corporate Office: 251/A, 2nd Floor, Bommasandra Industrial Area, Anekal Taluk, Bangalore 560099





**NH Narayana**  
Superspeciality Hospital

**Bafna**

Patient Name : NIRMAL RAJBONGSHI  
MRN : 17550000115656  
Age/Sex : 43Y/M

Requested By Unit of Narayana Health

Procedure Date : 28-06-2018 11:11  
Hospital : NH-GUWAHATI

**CHEST RADIOGRAPH (PA VIEW)**

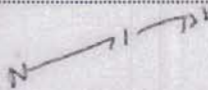
**CLINICAL DETAILS:** For executive health checkup.

**FINDINGS:**

- The lung fields and bronchovascular markings appear normal.
- The cardiac size is within normal limits.
- Mediastinum and great vessels are within normal limits.
- Trachea is normal and is central. The hilar shadows are unremarkable.
- The costo-phrenic angles are clear. No evidence of pleural effusion or pneumothorax.
- Mild degenerative changes are noted in the spine.
- Both the diaphragmatic domes appear normal.

**IMPRESSION:**

- No significant abnormality detected.

* This is a digitally signed valid document		Signature	Date / Time
Digitally validated and reported by	Dr. Nagendra Kumar B.K. DMRD, DNB Associate Consultant Radiologist		28-6-2018 13:31:00
Transcribed by	Mr. Ravi Kumar	-	-

*This report has been generated from NH Teleradiology 24/7, a service of Narayana Hrudayalaya Hospitals.*

Page 1 of 1



**PATIENT HELPLINE**  
**186-0208-0208**

**Narayana Hrudayalaya Limited**

(Previously Narayana Hrudayalaya Pvt. Ltd.) CIN No.: L85110KA2000PTC027497

Near Tolaram Bafna medical complex, Amingaoan, Guwahati 781031, Assam

186 0208 0208 (24/7 Helpline no.), Mob: +91 8811 003030, guwahati@nhhospitals.org, www.narayanahealth.org

Registered Office: 258/A, Bommasandra Industrial Area, Anekal Taluk, Bangalore 562158

Corporate Office: 261/A, 2nd Floor, Bommasandra Industrial Area, Anekal Taluk, Bangalore 562158



## Patient Information

Name Nath, Mr. Paras  
ID 0000115658  
Age 34  
Height 176 cm  
Weight 64 kg BMI 20.7  
Gender Male  
Ethnicity South-East Asian

## Test Information

Test Type FVL (ex/in)  
Test Date 28/09/2018 12:05:43  
Post Time 6:28  
Interpretation GOLD(2008) Hard  
Predicted NHANES III \* 1.00  
Value Selection Best Value  
BTPS (IN/EX) 1.12/1.02



Unit of Narayana Health  
Society Inspired by Shri Subhakaran Jain Bafna

## Test Result

Your FEV1 / Predicted: 69%

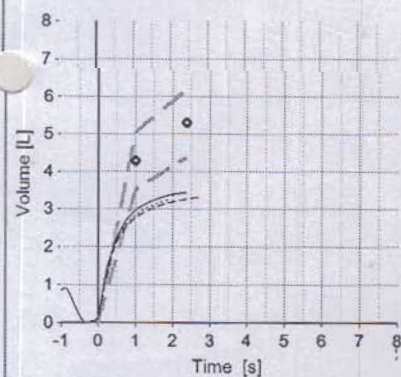
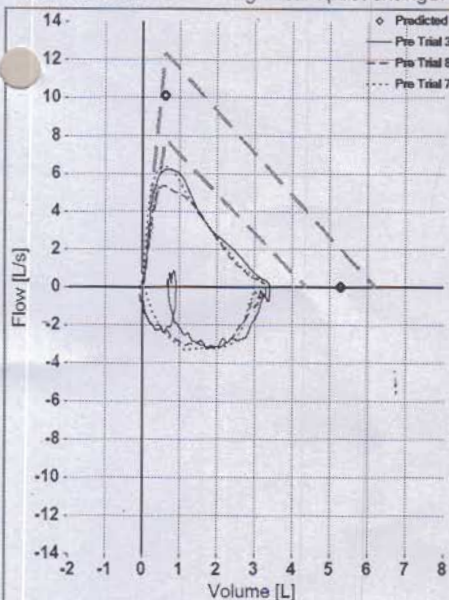
Parameter	Pred	LLN	Best	Trial 3	Trial 8	Trial 7	%Pred
FVC [L]	5.29	4.38	3.42*	3.42*	3.31*	3.23*	65
FEV1 [L]	4.28	3.51	2.96*	2.96*	2.75*	2.82*	69
FEV1/FVC	0.810	0.713	0.865	0.865	0.831	0.874	107
FEF25-75% [L/s]	4.21	2.64	3.18	3.18	2.88	3.19	76
PEF [L/s]	10.09	7.82	6.22*	6.22*	5.38*	6.40*	62
FET [s]	-	-	2.4	2.4	2.8	1.9	-
FIVC [L]	5.29	4.38	3.38*	2.70*	3.38*	3.12*	64
PIF [L/s]	-	-	3.29	3.29	3.27	3.34	-

Session Quality Pre D - Result not repeatable (FEV1 Var=0.20L (6.9%); FVC Var=0.11L (3.1%))

System Interpretation Pre Restriction probable; further examination recommended

Caution: Poor session quality. Interpret with care

\* Indicates below LLN or significant post change.



nddReportForced  
NH Helpline  
8811 888 888

Narayana Hrudayalaya Limited

(Previously Narayana Hrudayalaya Pvt. Ltd.) CIN: U85110KA2000PLC027497

Near Tolaram Bafna Medical Complex, Amingaon, Guwahati - 781031, Assam

Tel: +91 361 2680 321, Fax: +91 361 2680 322. guwahati@nhhospitals.org, www.narayanahealth.org

Registered Office: 258/A, Bommasandra Industrial Area, Anekal Taluk, Bangalore 560099



Patient Name : PARAS NATH  
 MRN : 17550000115658  
 Age/Sex : 34Y/M

Requested By : -  
 Procedure Date : 28-06-2018 11:20  
 Hospital : NH-GUWAHATI

### CHEST RADIOGRAPH (PA VIEW)

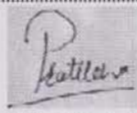
**CLINICAL DETAILS:** For executive health checkup.

**FINDINGS:**

- Reticulonodular opacities are seen in right mid and lower zones.
- The cardiac size is within normal limits.
- Mediastinum and great vessels are within normal limits.
- Trachea is normal and is central. The hilar shadows are unremarkable.
- The costo-phrenic angles are clear. No evidence of pleural effusion or pneumothorax.
- The visualized bones and soft tissue structures appear normal.
- Both the diaphragmatic domes appear normal.

**IMPRESSION:**

- Reticulonodular opacities in right mid and lower zones, *suggestive of pneumonic infiltrates. Recommend clinical and lab correlation.*

* This is a digitally signed valid document		Signature	Date / Time
Digitally validated and reported by	Dr. Pratibha Patil MD Consultant Radiologist		28-6-2018 13:47:00
Transcribed by	Ms. Reshmi Krishnan	-	-

*This report has been generated from NH Teleradiology 24/7, a service of Narayana Hrudayalaya Hospitals.*





## Patient Information

Name Saharia, Mr. Prabhat Ch  
ID 0000115648  
Age 45  
Height 176 cm  
Weight 64 kg BMI 20.7  
Gender Male  
Ethnicity South-East Asian

## Test Information

Test Type  
Test Date  
Post Time  
Interpretation  
Predicted  
Value Selection  
BTPS (IN/EX)

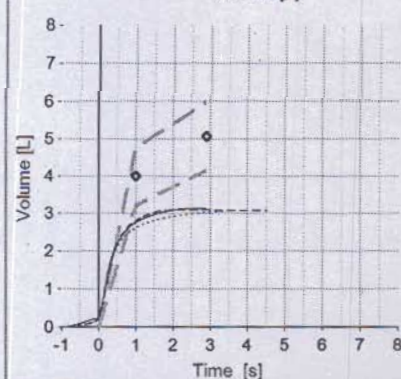
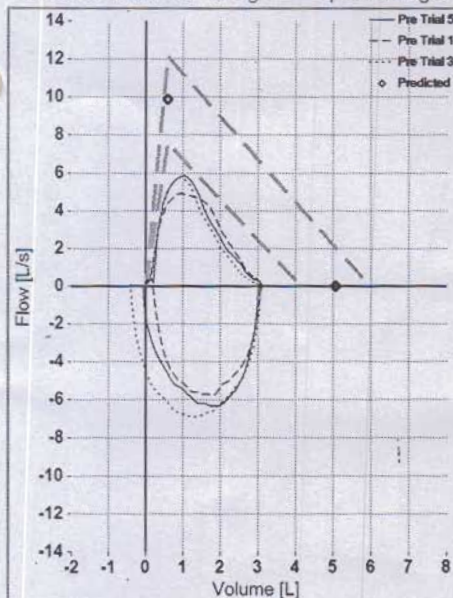
**NH Narayana Bafna**  
FVL (ex/in)  
6/28/2018 11:38:18 AM  
Superspecialty Hospital  
Unit of Narayana Health  
GOLD (2008) Hardie  
NHANES III 1.00  
Best Value  
1.12/1.02

## Test Result

Your FEV1 / Predicted: 70%

Parameter	Pred	LLN	Best	Trial 5	Trial 1	Trial 3	%Pred
FVC [L]	5.06	4.15	3.13*	3.13*	3.08*	3.08*	62
FEV1 [L]	3.99	3.21	2.81*	2.75*	2.81*	2.61*	70
FEV1/FVC	0.787	0.690	0.898	0.881	0.910	0.847	114
FEF25-75% [L/s]	3.66	2.09	3.40	3.40	3.79	3.03	93
PEF [L/s]	9.87	7.60	5.86*	5.86*	4.92*	5.78*	59
FET [s]	-	-	2.5	2.5	2.0	3.7	-
FIVC [L]	5.06	4.15	3.47*	3.18*	2.87*	3.46*	68
PIF [L/s]	-	-	7.16	6.34	5.78	6.90	-
Session Quality	Pre	A (FEV1 Var=0.05L (1.8%); FVC Var=0.04L (1.3%))					
System Interpretation	Pre	Restriction probable; further examination recommended					

\* Indicates below LLN or significant post change.



Last Reviewer

26/28/2018



Patient Name : PRABHAT CH SAHARIA

MRN : 17550000115648

Age/Sex : 45Y/M

Requested By Unit of Narayana Health

Procedure Date : 28-06-2018 11:03

Hospital : NH-GUWAHATI

### CHEST RADIOGRAPH (PA VIEW)

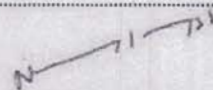
**CLINICAL DETAILS:** For executive health checkup.

**FINDINGS:**

- The lung fields and bronchovascular markings appear normal.
- The cardiac size is within normal limits.
- Mediastinum and great vessels are within normal limits.
- Trachea is normal and is central. The hilar shadows are unremarkable.
- The costo-phrenic angles are clear. No evidence of pleural effusion or pneumothorax.
- The visualized bones and soft tissue structures appear normal.
- Both the diaphragmatic domes appear normal.

**IMPRESSION:**

- Normal chest radiograph.

* This is a digitally signed valid document		Signature	Date / Time
Digitally validated and reported by	Dr. Nagendra Kumar B.K. DMRD, DNB Associate Consultant Radiologist		28-6-2018 13:24:00
Transcribed by	Mr. Ravi Kumar	-	-

This report has been generated from **NH Teleradiology 24/7**, a service of Narayana Hrudayalaya Hospitals.





## Patient Information

Name Singh, Mr. Rabindra  
ID 0000115703  
Age 40  
Height 163 cm  
Weight 50 kg BMI 18.8  
Gender Male  
Ethnicity South-East Asian

## Test Information

Test Type FVL (ex/in)  
Test Date 6/28/2018 4:22:16 PM  
Post Time  
Interpretation GOLD(2008)/Hardie  
Predicted NHANES III \* 1.00  
Value Selection Best Value  
BTPS (IN/EX) 1.12/1.02

## Test Result

Your FEV1 / Predicted: 79%

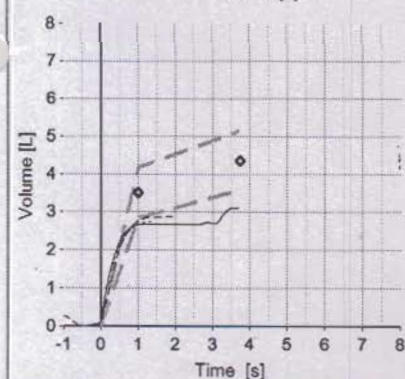
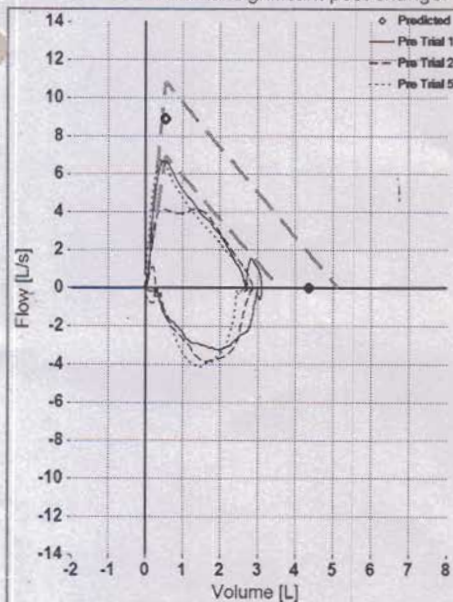
Parameter	Pred	LLN	Best	Trial 1	Trial 2	Trial 5	%Pred
FVC [L]	4.35	3.57	3.10*	3.10*	2.86*	2.74*	71
FEV1 [L]	3.50	2.84	2.75*	2.66*	2.75*	2.65*	79
FEV1/FVC	0.798	0.701	0.886	0.857	0.960	0.969	111
FEF25-75% [L/s]	3.45	2.11	3.40	3.40	3.64	3.55	99
PEF [L/s]	8.91	6.96	6.77*	6.74*	4.16*	6.77*	76
FET [s]	-	-	3.7	3.7	1.8	1.4	-
FIVC [L]	4.35	3.57	2.87*	2.87*	2.81*	2.44*	66
PIF [L/s]	-	-	4.15	3.24	3.86	4.15	-

Session Quality Pre D - Result not repeatable (FEV1 Var=0.09L (3.3%); FVC Var=0.24L (7.7%))

System Interpretation Pre Restriction probable; further examination recommended

Caution: Poor session quality. Interpret with care

\* Indicates below LLN or significant post change.



Last Reviewer

3 6/28/2018





**NH Narayana**  
Superspeciality Hospital

**Bafna**

Patient Name : RABINDRA SINGH  
MRN : 17550000115703  
Age/Sex : 40Y/M

Requested By : Unit of Narayana Health  
Procedure Date : 28-06-2018 14:34  
Hospital : NH-GUWAHATI  
Socially inspired by Shri Subhakaran Jain Bafna

**CHEST RADIOGRAPH (PA VIEW)**

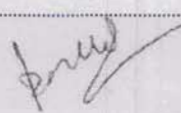
**CLINICAL DETAILS:** For executive health checkup.

**FINDINGS:**

- The lung fields and bronchovascular markings appear normal.
- The cardiac size is within normal limits.
- Mediastinum and great vessels are within normal limits.
- Trachea is normal and is central. The hilar shadows are unremarkable.
- The costo-phrenic angles are clear. No evidence of pleural effusion or pneumothorax.
- The visualized bones and soft tissue structures appear normal.
- Both the diaphragmatic domes appear normal.

**IMPRESSION:**

- Normal chest radiograph.

* This is a digitally signed valid document		Signature	Date / Time
Digitally validated and reported by	Dr. Pallavi C. J DMRD, DNB Consultant Radiologist		28-6-2018 15:54:00
Transcribed by	Mr. Manjunath S	-	-

*This report has been generated from NH Teleradiology 24/7, a service of Narayana Hrudayalaya Hospitals.*

Page 1 of 1



**PATIENT HELPLINE**  
**186-0208-0208**

**Narayana Hrudayalaya Limited**

(Previously Narayana Hrudayalaya Pvt. Ltd.) CIN No.: LB510KA2000PTC027497

Near Tolaram Bafna medical complex, Amingaoan, Guwahati 781031, Assam

186 0208 0208 (24/7 Helpline no.), Mob: +91 8811 003030, guwahati@nhhospitals.org, www.narayanahealth.org

Registered Office: 258/A, Bommasandra Industrial Area, Anekal Taluk, Bangalore 562158

Corporate Office: 261/A, 2nd Floor, Bommasandra Industrial Area, Anekal Taluk, Bangalore 562158



## Patient Information

Name Bonia, Mr. Rajen  
ID 0000115706  
Age 28  
Height 174 cm  
Weight 72 kg BMI 23.8  
Gender Male  
Ethnicity South-East Asian

## Test Information

Test Type PFT (ex/in)  
Test Date 07/28/2018 09:55:37 AM  
Post Time  
Interpretation Speciality: Narayana  
Predicted NHANES III + 1.00  
Value Selection Unit of Narayana Health  
BTPS (IN/EX) Best Value  
1.12/1.02  
Socially inspired by Shri Subhakaran Jain Bafna

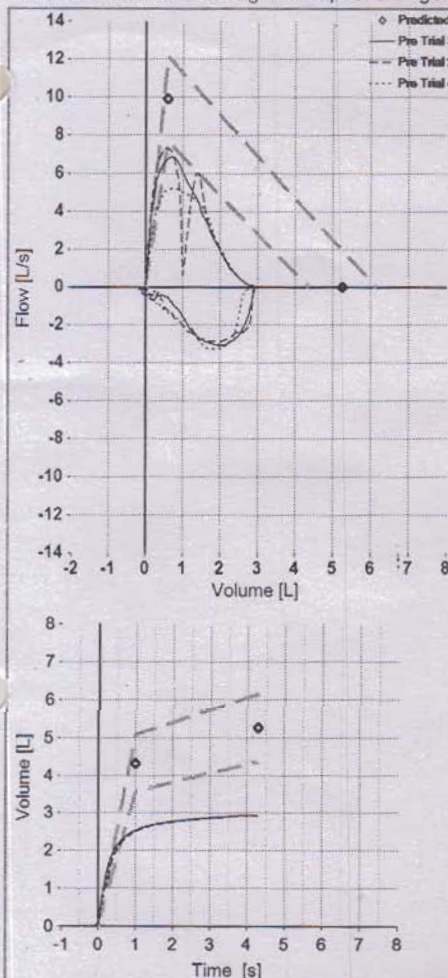
**NH Narayana Bafna**  
Super Speciality Hospital

## Test Result

Your FEV1 / Predicted: 58%

Parameter	Pred	LLN	Pre Best	Trial 3	Trial 2	Trial 4	%Pred
FVC [L]	5.26	4.36	2.93*	2.93*	2.89*	2.81*	56
FEV1 [L]	4.32	3.57	2.53*	2.52*	2.49*	2.53*	58
FEV1/FVC	0.822	0.726	0.864	0.863	0.860	0.901	105
FEF25-75% [L/s]	4.43	2.90	3.24	3.24	2.89*	3.63	73
PEF [L/s]	9.91	7.69	7.66*	6.87*	7.33*	5.23*	77
FET [s]	-	-	4.2	4.2	3.6	2.5	-
FIVC [L]	5.26	4.36	3.08*	3.08*	2.96*	2.98*	59
PIF [L/s]	-	-	4.02	3.10	2.91	3.29	-
Session Quality	Pre	A (FEV1 Var=0.00L (0.1%); FVC Var=0.04L (1.2%))					
System Interpretation	Pre	Restriction probable; further examination recommended					

\* Indicates below LLN or significant post change.



Last Reviewer 3/6/2018





**NH Narayana**  
Superspeciality Hospital

**Bafna**

Patient Name : RAJEN BONIA  
MRN : 17550000115706  
Age/Sex : 28Y/M

Requested By : Unit of Narayana Health  
Procedure Date : 28-06-2018 14:37  
Hospital : NH-GUWAHATI  
Socially inspired by Shri Subhakaran Jain Bafna

**CHEST RADIOGRAPH (PA VIEW)**

**CLINICAL DETAILS:** For executive health checkup.

**FINDINGS:**

*Mid inspiratory radiograph.*

- Visualized lung fields and bronchovascular markings appear normal.
- The cardiac size is within normal limits.
- Mediastinum and great vessels are within normal limits.
- Trachea is normal and is central. The hilar shadows are unremarkable.
- The costo-phrenic angles are clear. No evidence of pleural effusion or pneumothorax.
- The visualized bones and soft tissue structures appear normal.
- Both the diaphragmatic domes appear normal.

**IMPRESSION:**

- No significant abnormality detected.

* This is a digitally signed valid document		Signature	Date / Time
Digitally validated and reported by	Dr. Pallavi C. J. DMRD, DNB Consultant Radiologist		28-6-2018 15:55:00
Transcribed by	Mr. Manjunath S	-	-

*This report has been generated from NH Teleradiology 24/7, a service of Narayana Hrudayalaya Hospitals.*

Page 1 of 1



**PATIENT HELPLINE**  
**186-0208-0208**

**Narayana Hrudayalaya Limited**

(Previously Narayana Hrudayalaya Pvt. Ltd.) CIN No.: L85110KA2000PTC027497

Near Tolaram Bafna medical complex, Amingoon, Guwahati 781031, Assam

186 0208 0208 (24/7 Helpline no.), Mob: +91 8811 003030, guwahati@nhhospitals.org, www.narayanahealth.org

Registered Office: 258/A, Bommasandra Industrial Area, Anekal Taluk, Bangalore 562158

Corporate Office: 261/A, 2nd Floor, Bommasandra Industrial Area, Anekal Taluk, Bangalore 562158



## Patient Information

Name Sarkar, Mr. Rojoy  
ID 0000115645  
Age 31  
Height 182 cm  
Weight 70 kg BMI 21.1  
Gender Male  
Ethnicity South-East Asian

## Test Information

Test Type  
Test Date  
Post Time  
Interpretation  
Predicted  
Value Selection  
BTPS (IN/EX)

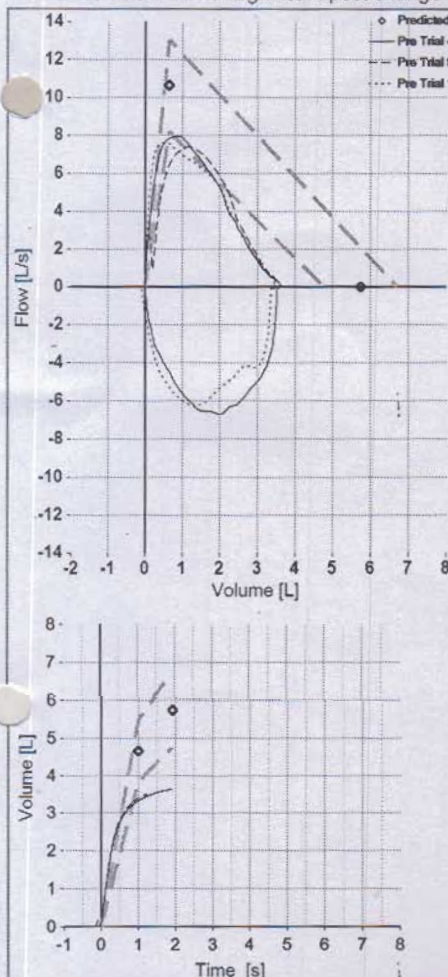
**NH Narayana Bafna**  
FVL (ex/in)  
6/26/2018 11:45:46 AM  
Superspecialty Hospital  
Unit of Narayana Health  
GOLD (2008) / Hardie  
Subhakaran Jain Bafna  
NHANES III \* 1.00  
Best Value  
1.12/1.02

## Test Result

Your FEV1 / Predicted: 73%

Parameter	Pred	LLN	Pre Best	Trial 4	Trial 5	Trial 1	%Pred
FVC [L]	5.74	4.77	3.62*	3.62*	3.48*	3.46*	63
FEV1 [L]	4.65	3.83	3.38*	3.32*	3.38*	3.32*	73
FEV1/FVC	0.816	0.719	0.935	0.916	0.971	0.959	115
FEF25-75% [L/s]	4.58	2.91	4.82	4.82	5.61	5.05	105
PEF [L/s]	10.63	8.21	7.96*	7.96*	7.38*	7.62*	75
FET [s]	-	-	1.9	1.9	1.2	1.4	-
FIVC [L]	5.74	4.77	3.61*	3.61*	0.05*	3.54*	63
PIF [L/s]	-	-	6.71	6.71	0.11	6.32	-
Session Quality	Pre		B (FEV1 Var=0.05L (1.3%); FVC Var=0.13L (3.7%))				
System Interpretation	Pre		Restriction probable; further examination recommended				

\* Indicates below LLN or significant post change.



Last Reviewer 3/6/2018



nddReportForced  
**NH Helpline**  
**8811 888 888**

Narayana Hrudayalaya Limited

(Previously Narayana Hrudayalaya Pvt. Ltd.) CIN: U85110KA2000PLC027497

Near Tolaram Bafna Medical Complex, Amingaon, Guwahati - 781031, Assam

Tel: +91 361 2680 321, Fax: +91 361 2680 322. guwahati@nhhospitals.org, www.narayanahealth.org

Registered Office: 258/A, Bommasandra Industrial Area, Anekal Taluk, Bangalore 560099





**Narayana**  
Superspeciality Hospital

**Bafna**

Patient Name : ROJOT SARKAR  
MRN : 17550000115645  
Age/Sex : 31Y/M

Requested By Unit of Narayana Health  
Procedure Date : 28-06-2018 11:06  
Hospital : NH-GUWAHATI

### CHEST RADIOGRAPH (PA VIEW)

**CLINICAL DETAILS:** For executive health checkup.

#### FINDINGS:

- The lung fields and bronchovascular markings appear normal.
- The cardiac size is within normal limits.
- Mediastinum and great vessels are within normal limits.
- Trachea is normal and is central. The hilar shadows are unremarkable.
- The costo-phrenic angles are clear. No evidence of pleural effusion or pneumothorax.
- The visualized bones and soft tissue structures appear normal.
- Both the diaphragmatic domes appear normal.

#### IMPRESSION:

- Normal chest radiograph.

* This is a digitally signed valid document		Signature	Date / Time
Digitally validated and reported by	Dr. Nagendra Kumar B.K. DMRD, DNB Associate Consultant Radiologist		28-6-2018 13:28:00
Transcribed by	Mr. Ravi Kumar	-	-

This report has been generated from NH Teleradiology 24/7, a service of Narayana Hrudayalaya Hospitals.

Page 1 of 1



PATIENT HELPLINE  
**186-0208-0208**

**Narayana Hrudayalaya Limited**

(Previously Narayana Hrudayalaya Pvt. Ltd.) CIN No.: L85110KA2000PTC027497

Near Tolaram Bafna medical complex, Amingoon, Guwahati 781031, Assam

186 0208 0208 (24/7 Helpline no.), Mob: +91 8811 003030, guwahati@nhhospitals.org, www.narayanahealth.org

Registered Office: 258/A, Bommasandra Industrial Area, Anekal Taluk, Bangalore 562158

Corporate Office: 261/A, 2nd Floor, Bommasandra Industrial Area, Anekal Taluk, Bangalore 562158



## Patient Information

Name Talukdar, Mr. Samin  
ID 0000115699  
Age 53  
Height 154 cm  
Weight 42 kg BMI 17.7  
Gender Male  
Ethnicity South-East Asian

## Test Information

Test Type  
Test Date  
Post Time  
Interpretation  
Predicted  
Value Selection  
BTPS (IN/EX)

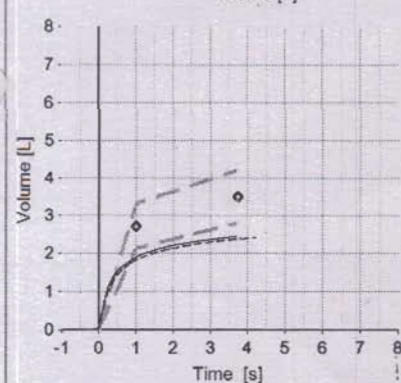
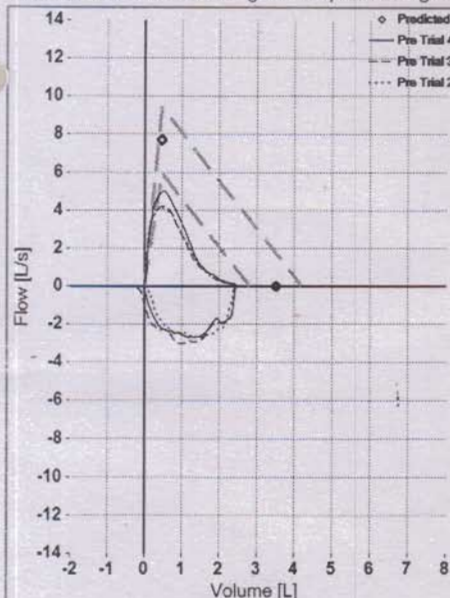
**NH Narayana Bafna**  
Superspecialty Hospital  
Unit of Narayana Health  
Best Value  
1.12/1.02  
Socially Inspired by Shri Subhakaran Jain Bafna

## Test Result

Your FEV1 / Predicted: 69%

Parameter	Pred	LLN	Pre				%Pred
			Best	Trial 4	Trial 3	Trial 2	
FVC [L]	3.51	2.81	2.44*	2.44*	2.41*	2.39*	70
FEV1 [L]	2.72	2.13	1.89*	1.89*	1.81*	1.81*	69
FEV1/FVC	0.771	0.674	0.774	0.774	0.752	0.759	100
FEF25-75% [L/s]	2.51	1.31	1.57	1.57	1.42	1.47	63
PEF [L/s]	7.70	5.96	5.03*	5.03*	4.22*	4.12*	65
FET [s]	-	-	3.7	3.7	4.2	3.8	-
FIVC [L]	3.51	2.81	2.58*	2.46*	2.58*	2.32*	74
PIF [L/s]	-	-	3.05	2.70	3.05	2.72	-
Session Quality	Pre	A (FEV1 Var=0.07L (3.7%); FVC Var=0.03L (1.1%))					
System Interpretation	Pre	Restriction probable; further examination recommended					

\* Indicates below LLN or significant post change.



Last Reviewer 3 6/28/2018







**Narayana**  
Superspeciality Hospital

**Bafna**

Patient Name : SAMIN TALUKDHAR  
MRN : 17550000115699  
Age/Sex : 53Y/M

Requested By :  
Unit of Narayana Health  
Procedure Date : 28-06-2018 14:25  
Hospital : NH-GUWAHATI  
Socially inspired by Sri Sushikaran Jain Bafna

**CHEST RADIOGRAPH (PA VIEW)**

**CLINICAL DETAILS:** For executive health checkup.

**FINDINGS:**

- The lung fields and bronchovascular markings appear normal.
- Mild cardiomegaly is noted.
- Unfolding of arch of aorta is noted. Aortic arch calcification is seen.
- Trachea is normal and is central. The hilar shadows are unremarkable.
- The costo-phrenic angles are clear. No evidence of pleural effusion or pneumothorax.
- Diffuse osteopenia is noted. Degenerative changes are noted in the spine.
- Both the diaphragmatic domes appear normal.

**IMPRESSION:**

- Mild cardiomegaly.

* This is a digitally signed valid document		Signature	Date / Time
Digitally validated and reported by	Dr. Pallavi C. J. DMRD, DNB Consultant Radiologist		28-6-2018 15:52:00
Transcribed by	Mr. Manjunath S	-	-

*This report has been generated from NH Teleradiology 24/7, a service of Narayana Hrudayalaya Hospitals.*

Page 1 of 1



**PATIENT HELPLINE**  
**186-0208-0208**

**Narayana Hrudayalaya Limited**

(Previously Narayana Hrudayalaya Pvt. Ltd.) CIN No.: L85110KA2000PTC027497

Near Tolaram Bafna medical complex, Amingaoan, Guwahati 781031, Assam

186 0208 0208 (24/7 Helpline no.), Mob: +91 8811 003030, guwahati@nhhospitals.org, www.narayanahealth.org

Registered Office: 258/A, Bommasandra Industrial Area, Anekal Taluk, Bangalore 562158

Corporate Office: 261/A, 2nd Floor, Bommasandra Industrial Area, Anekal Taluk, Bangalore 562158



## Patient Information

Name Kumar, Mr. Suraj  
ID 0000115685  
Age 24  
Height 168 cm  
Weight 68 kg BMI 24.1  
Gender Male  
Ethnicity South-East Asian

## Test Information

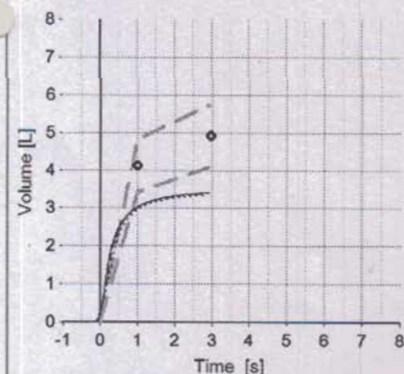
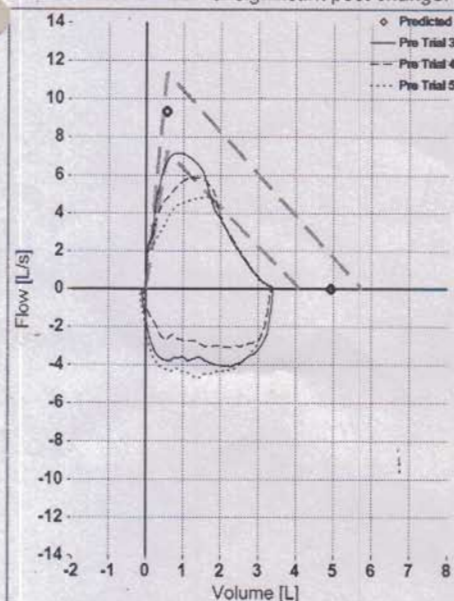
Test Type FVL (ex/in)  
Test Date 6/28/2018 4:26:23 PM  
Post Time  
Interpretation GOLD(2008)/Hardie  
Predicted NHANES III \* 1.00  
Value Selection Best Value  
BTPS (IN/EX) 1.12/1.02

## Test Result

Your FEV1 / Predicted: 73%

Parameter	Pred	LLN	Pre				%Pred
			Best	Trial 3	Trial 4	Trial 5	
FVC [L]	4.93	4.10	3.40*	3.40*	3.38*	3.33*	69
FEV1 [L]	4.12	3.42	3.02*	3.02*	3.01*	2.95*	73
FEV1/FVC	0.831	0.734	0.889	0.889	0.889	0.886	107
FEF25-75% [L/s]	4.42	3.00	4.03	4.03	4.05	3.80	91
PEF [L/s]	9.33	7.26	8.12	7.14*	5.89*	4.86*	87
FET [s]	-	-	2.9	2.9	2.8	2.8	-
FIVC [L]	4.93	4.10	3.50*	3.50*	3.43*	3.48*	71
PIF [L/s]	-	-	4.68	4.09	3.10	4.68	-
Session Quality	Pre	A (FEV1 Var=0.01L (0.4%); FVC Var=0.02L (0.5%))					
System Interpretation	Pre	Restriction probable; further examination recommended					

\* Indicates below LLN or significant post change.



Last Reviewer 3 6/28/2018



Patient Name : SURAJ KUMAR  
 MRN : 17550000115685  
 Age/Sex : 24Y/M

Requested By : Unit of Narayana Health  
 Procedure Date : 28-06-2018 14:17  
 Hospital : NH-GUWAHATI  
Socially inspired by Shri. Subhakaran Jain Bafna

### CHEST RADIOGRAPH (PA VIEW)

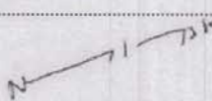
**CLINICAL DETAILS:** For executive health checkup.

**FINDINGS:**

- The lung fields and bronchovascular markings appear normal.
- The cardiac size is within normal limits.
- Mediastinum and great vessels are within normal limits.
- Trachea is normal and is central. The hilar shadows are unremarkable.
- The costo-phrenic angles are clear. No evidence of pleural effusion or pneumothorax.
- The visualized bones and soft tissue structures appear normal.
- Both the diaphragmatic domes appear normal.

**IMPRESSION:**

- Normal chest radiograph.

* This is a digitally signed valid document		Signature	Date / Time
Digitally validated and reported by	Dr. Nagendra Kumar B.K. DMRD, DNB Associate Consultant Radiologist		28-6-2018 16:10:00
Transcribed by	Mr. Ravi Kumar	-	-

*This report has been generated from NH Teleradiology 24/7, a service of Narayana Hrudayalaya Hospitals.*



**ANNEXURE-VII**

**NABL CERTIFICATE OF ABC  
TECHNOLABS INDIA PVT. LTD.**





**National Accreditation Board for  
Testing and Calibration Laboratories**

(A Constituent Board of Quality Council of India)



**CERTIFICATE OF ACCREDITATION**

**ABC TECHNO LABS INDIA PRIVATE LIMITED**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2005**

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

ABC Tower, No:400, 13th Street, SIDCO Industrial Estate, North Phase,  
Ambattur, Chennai, Tamil Nadu

in the field of

**TESTING**

**Certificate Number** TC-5770

**Issue Date** 29/11/2017

**Valid Until** 28/11/2019

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Signed for and on behalf of NABL

N. Venkateswaran  
Program Director



89076970100030000583

Anil Relia  
Chief Executive Officer