

ADITYA BIRLA



BIRLA CARBON

SKMEHS\110  
27.06.2018

To

**Additional Principal Chief Conservator of Forests (C),  
Ministry of Environment, Forest and Climate Change,  
Regional Office (SEZ),  
1st and 2nd Floor, Handloom Export Promotion Council,  
34, Cathedral Garden Road, Nungambakkam,  
Chennai – 34.**

Dear Sir,


Please find the information required as per General Condition No.08 of your Environmental Clearance File No. J-11011/350/2010-IA II (I) dated 29.09.2011. Six Monthly status of compliance of the stipulated Environmental Clearance conditions for the period of October 17 to March 18.

Thanking you,

Yours faithfully,

For **SKI Carbon Black (India) Private Ltd.**  
(Unit: Hi-Tech Carbon, Gummidipoondi)

*Enclosure: Annexure IV, Annexure IVa, Annexure IIa, Annexure IIb, Annexure II, Annexure VI*

  
RAJAN.J

**Senior Manager (P&A) & CSR**

CC: 1. **Central Pollution Control Board  
1st & 2nd Floors, Nisarga Bhavan  
A-Block, Thimmaiah Main Road  
7th D Cross, Shivanagar,  
Bengaluru –560 079.**

CC: 1. **The District Environmental Engineer,  
Tamil Nadu Pollution Control Board,  
Gummidipoondi, EPIP Building,  
Sipcot Industrial park,  
Tiruvallur district,  
Tiruvallur-601 201.**

**SKI Carbon Black (India) Private Limited**

(Unit : Hi-Tech Carbon, Gummidipoondi)

K-16, Phase II, Sipcot Industrial Complex, P.O. Gummidipoondi, Dist. Thiruvallur - 601 201, Tamil Nadu, India  
T : +91 44 2798 9233 - 36 | F : +91 44 2798 9116 / 29 | Website : www.birlacarbon.com | CIN : U23201MH2013PTC241741

**Marketing Office** 910 - 911, Kailash Building, Kasturba Gandhi Marg, New Delhi - 110 001 | T : +91 11 2335 1069 / 71 | F : +91 11 2335 0594  
**Regd. Office** Aditya Birla Centre, S. K. Ahire Marg, Worli, Mumbai - 400 030, India | T : +91 22 6652 5000

## Status of - Environment Clearance Conditions as on 31 March 2018

Specific condition	
Condition	Remarks
<p>1</p> <p>Permission and recommendations of the State Forest Department regarding impact of the proposed plant on the serve forest located near to village Kedemallur (8.6 km, NW) and village Manali (6.7 km, SW) shall be implemented satisfactorily.</p>	<p>Since the project comes under SIPCOT leased land which was approved by Tamil Nadu Industrial corridor, Forest clearance is not required</p>
<p>2</p> <p>Environmental clearance is subject to their obtaining prior clearance from the Standing committee of the National Board for Wildlife regarding Pulicat Wildlife (Bird) Sanctuary. Grant of environmental clearance does not necessarily implies that wildlife clearance will be considered by the respective authorities on their merits and decision taken. The investment made in the project, if any, based on environmental clearance so granted, in anticipation of the clearance from wildlife angle shall be entirely at the cost and risk of the project proponent and Ministry of Environment &amp; Forest shall not be responsible in this regard in any manner and all the recommendations shall be implemented in a time bound manner.</p>	<p>Application submitted for clearance with wild life department. Wild life warden forwarded the application with NOC to Chief Warden. NOC awaited. (Annexure IVa)</p>
<p>3</p> <p>As proposed, vent scrubber in the reactor area, main bag filter in the product separation area, process bag filter in the pelletizing area, purge gas filter in the product drying area, dryer combustor in the dryer area and packing exhaust filter in the packing area shall be provided to control air emissions. Electrostatic Precipitator (ESP); should be provided to the boilers to control SO2 emissions.</p>	<p>Vent scrubber in the reactor area, main bag filter in the product separation area, process bag filter in the pelletizing area, purge gas filter in the product drying area, dryer combustor in the dryer area and packing exhaust filter in the packing area have been provided. Electrostatic Precipitator (ESP) condition has been changed vide Letter No J-11011/350/2010 - IA II (I) dt 07th sep 2012 from MoEF office . (Copy of letter attached Annexure IIA)</p>

	Condition	Re-marks
4	<p>The gaseous emissions (SO<sub>2</sub>, NO<sub>x</sub>, CO and HC) and particulate matter from existing and proposed boiler, dryer, purge gas filter, packing exhaust filter units shall conform to the norms prescribed by the Central Pollution Control Board (CPCB)/TNPCB from time to time. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack emissions shall be monitored regularly.</p>	<p>Stack emissions are being monitored regularly and we are abiding by the conditions.</p> <p>All Stack are connected online with Care Aire center, TNPCB, Chennai.</p> <p>There are been early warning system available at the plant and auto shut down also available in case any emergency/emission.</p>
5	<p>continuous on-line stack monitoring of particulate matter, SO<sub>2</sub> and Nox with recording facilities as well as interlocking facilities shall be ensured and proper calibration shall be done time to time. Carbon content in the particulate matter shall also be measured.</p>	<p>continuous on-line stack monitoring of particulate matter, SO<sub>2</sub> and Nox with recording facilities as well as interlocking facilities have been provided with proper calibration.</p>
6	<p>Sulphur' content in the feed stock shall not exceed 3% as per the CPCB norms. Further efforts shall be made to procure feed stock with low sulphur content as possible.</p>	<p>We are procuring feed stock with less than 3% sulphur content.</p> <p>The sulphur content of feed stack is between 1.5% to 2.5% at present.</p>

	Condition	Remarks
7	Flue gas desulphurization system (FGD) shall be installed to control SO <sub>2</sub> emissions.	<p>In Carbon Black Industry, the desulphurization of flue gas is not practiced world-wide since the processes employed would either require very huge quantities of water or resulted in very huge quantities of sludge and thus the issue would be transformed from one to other. The above facts were resented to TNPCB. As advised by the TNPCB, a study was conducted by engaging IIT, Chennai on de-sulphurization and no breakthrough / feasible and viable solution was achieved by the Pilot Plant Study. Initially MOEF in their EC accorded for expansion project had stipulated condition to provide Flue Gas Desulphurization Plant. However, based on our re presentation, it was modified vide MOEF Letter dated 7th Sept. 2012 (Annexure IIa) to formulate a study group through CPCB regarding the relevancy of FGD to all Carbon Black Plants in India and till then the condition has been kept in abeyance. we have represented to remove the clause of FGD from the EC through our letter No SKI/UH/006/2015 dt 28 Apr 2015 (Annexure IIb).</p> <p>We are assuring your good office we are ready to abide on any solution prescribed by the Study Group on Desulphurization.</p>
8	Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry vide G.S.R. No. 826 € dated 16th September, 2009.	Two number of AAQMS had been installed and connected online with Care Air centre.
9	The levels of PM <sub>10</sub> , SO <sub>2</sub> , Nox, CO and HC (Non-methane) shall be monitored in the ambient air. Data of stack monitoring and ambient air shall be displayed on web as well as outside the premises at prominent place for public viewing. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and TNPCB.	We are monitoring through the AAQMS stations installed in the plant which is connected online with Care Air centre TNPCB, Chennai. We are also conducting a third party monthly monitoring through CPCB authorised NABL certified agency Copy of April 2018 is attached for ready reference. (Annexure II)

	Condition	Remarks
10	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading area to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits stipulated by the TNPCB.	Fugitive emissions are kept under control by providing closed handling and storage of carbon black. Work zone environment monitoring is carried out at six locations on a half-yearly basis through a third party approved by CPCB, authorised NABL certified agency.
11	Poly-Aromatic Hydrocarbon (PAH) shall be monitored in fugitive dust emission area particularly in Packaging Plant. Data shall be properly monitored, recorded and submitted to the Ministry's Regional Office at Bangalore.	We are abiding by the condition. We are doing PAH testing through CPCB approved NABL certified agency on a monthly basis. Copy of May 2018 test certificate attached for ready reference (Annexure VI) and reports are submitted to Ministry's Regional Office at Chennai on a monthly basis (Both via Email as well as hard copy).
12	For further control of fugitive emissions, following steps shall be followed:	
a	Closed handling system shall be provided for chemicals.	Closed handling system for chemicals has been provided.
b	Reflux condenser shall be provided over reactor.	vent scrubbers have been provided over reactor.
c	System of leak detection and repair of pump/pipeline based on preventive maintenance.	SAP based plant maintenance modules are adopted for preventive maintenance.
d	The acids shall be taken from storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water.	There is no transfer of acids from tanks to reactors.
e	Cathodic protection shall be provided to the underground solvent storage tanks.	There are no underground solvent storage tanks used at the plant.
13	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	The DG sets are provided with adequate stack and noise pollution is under control as per statutory standards.

	Condition	Remarks
14	Total fresh water requirement from SIPCOT water supply shall not exceed 2500 m <sup>3</sup> /day after expansion. Air cooled condenser shall be provided to reduce fresh water consumption even for expansion. Steps shall be identified to conserve water and measures adopted for minimizing the same.	We are abiding by the condition. Air cooled condensers are provided to reduce the fresh water consumption. Continuous improvement activities are under process to adopt best world class practices to minimize the raw water usage a, reduce the waste and also to maintain Zero discharge system.
15	As proposed, industrial effluent shall be segregated into oil bearing effluent stream, high TDS effluent stream and low TDS effluent stream. Oil bearing effluent stream shall be treated in effluent treatment plant (ETP) for removal/separation of oil. high TDS effluent stream shall be treated in ETP and rejects of reverse osmosis shall be concentrated in the multiple effect evaporator (MEE) and permeate shall be reused/recycled for cooling tower make up water. Low TDS effluent stream from floor washing shall be filtered. Sewage shall be treated in sewage treatment plant (STP). Treated effluent shall be recycle/reused with the factory premises. No effluent shall be discharge outside the factory premises and 'Zero' discharge concept shall be adopted. Treated effluent quality shall be monitored regularly and conform to the norms prescribed by the CPCB/TNPCB from time to time.	The present system is capable of satisfying the condition and we are informing the reports to the concern authority on a regular basis. We are maintaining a zero discharge plant.
16	Process effluent/any wastewater shall not be allowed to mix with the storm water. Storm water drain shall be passed through guard pond.	We are abiding by the condition. We are having sufficient arrangement to maintain the same as well as to maintain Zero discharge system.
17	All solid/hazardous waste including ETP sludge and waste oil shall properly stored at the site as per CPCB guideline. Fine carbon particles generated as solid waste shall be sold to industries for manufacturing low grade rubber goods. MEE sludge shall be sent to TSDF. Oily waste from oil removal tank shall be mixed along with CBFS and burnt in the furnace.	Storage / Handling / Disposal of Hazardous waste are complied as per the CPCB guidelines.
18	Proper and valid authorization and membership shall be obtained from the concerned authorities for the disposal of solid/hazardous waste and a copy submitted to the Ministry's Regional Office at Bangalore.	We have valid authorisation and membership from the concerned authorities for disposal of solid/hazardous waste and copy of the same shall be submitted to the Ministry's Regional Office at Bangalore.

	Condition	Remarks
19	The Company shall strictly comply with the rules and guidelines under manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle (MVA), 1989.	Storage / Handling / Disposal of Hazardous waste are complied as per the CPCB guidelines.
20	Proper house keeping shall be maintained and no spillage of Carbon Black shall be permitted. Preventive measures shall be taken to avoid and prevent any accidental release of Carbon Black to the environment.	The company is maintaining world class manufacturing standards (WCM) and certified with ISO140001, OSHAS 18001 & SA8000. Company also signed on Wash pledge with WBCSD (World Business Council for Sustainable development) to maintain all necessary wash requirement on international standard and we committed and working on this. We are also following good housekeeping and having proper schedule of maintaining the house keeping 24*7 for 365 days.
21	The Company shall undertake following waste minimization measures:-	
a	Metering and control of quantities of active ingredients to minimize waste.	We are abiding the condition. We are having MEFM to monitor to liquid waste as well as Stack and AAQMS available the air monitoring and all are connected online with CAREAIR centre TNPCB Chennai.
b	reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	We are abiding the condition
c	Use of automated filling to minimize spillage.	We are abiding the condition. Automated packing and loading systems are available at the plant and any spillage of carbon is been collected through vacuum facility and sold to required low quality carbon black customers.
d	Use of close feed system into batch reactors.	We are abiding the condition
e	Venting equipment through vapour recovery system.	Vent scrubbers are provided with re-cycle system.

	Condition	Remarks
f	Use of high pressure hoses for equipment clearing to reduce wastewater generation.	We are abiding the condition. We have industrial vacuum cleaner for Road sweeping as well portable vacuum cleaner at Warehouse area.
22	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the OISD 117 norms.	Unit has been all arrangement for protection of possible fire hazards during manufacturing process in material handling. Unit has valid fire license renewed time to time.
23	All the workers involved in packing of Carbon Black in Packaging Plant area shall use (PPE) and masks to avoid direct exposure to Carbon Black dust.	Proper PPE are ensured with all workers as well as doing half yearly medical check up to all workers to monitor their health status. Unit is also having in-house OHC with full time doctor and round the clock nursing facility with Ambulance.
24	All the workers shall be regularly monitored for occupational health for relevant parameters pertaining to industry specific and records maintained.	Company is having in-house full fledged OHC with all necessary facility. One full time doctor and round the clock nursing facility is available. We are doing our internal half yearly medical checking as well as annual medical checking to all employees through external medical agencies and Industrial Safety and Health department doctor. Till now there is no abnormality found in case any occupational diseases.
25	Proper energy conservation measures shall be adopted and a report submitted to the Ministry and its Regional Office at Bangalore.	The unit is certified with ISO 50001 and EMS land Energy conservation measures are adopted.
26	Green belt shall be developed in 30 acres out of total land 62 acres. Selection of plant species shall be as per the CPCB guidelines.	This condition has been corrected from 30 acres to 18.55 acres vide MoEF letter No J-11011/350/2010-IA II (I) dt 07th Sep 2012(Annexure IIa). We are maintaining more than 20 acres of green belt in our plant.
27	All the recommendation/standards mentioned in the CPCB guidelines for the Carbon Black manufacturers shall be implemented.	We are abiding by the condition.



Condition	Remarks
28	Provision shall be made for the housing for the construction labour within the site with all necessary in fracture and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.
<b>GENERAL CONDITIONS</b>	
1	The project authorities shall strictly adhere to the stipulations made by the Tamil Nadu Pollution Control Board.
2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forest. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
3	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentration are anticipated.
4	The Overall noise levels in and around the plant area shall be kept well within the standards 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 Environment (Protection) Act, 1986 Rules, 1989 viz, 75 dBA (day time) and 70 dBA (night time).
5	The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
	We are abiding by the condition. There is no construction is in progress at present and we not allowing anybody to stay inside the premises and the appropriate labour contract has been provided with the condition of providing adequate housing facilities to the workers involved on construction. We are also monitoring the same to ensure the condition.
	We are abiding by the condition.
	We are abiding by the condition
	Ambient monitoring station has been already established and connected online with Care Air centre, TNPCB, Chennai.
	Ambient noise levels are monitored regularly at 6 locations monthly, and one location continuous monitoring for 24 hours carried out. And are confirming to standards prescribed under EPA 1986 Rules.
	We have developed in-house water filtration system for re-use of water from Settling Pond. Rain water Harvesting is implemented. A total of 20 RWH hpits have been completed. We have two Rain water harvesting ponds to harvest rain water.

	Condition	Remarks
6	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	We are abiding by the condition. Pre employment and periodical medical checks are carried out complying factories act for all employees. Associated employees involved in chemical handling are imparted MSDS training prior to engaging in job.
7	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	We are abiding by the condition
8	The company shall undertake all relevant measures for improving the social economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	As part of Aditya Birla Group, we are at the forefront of maintaining sustainable operational excellence in all of our activities. We shall strive to maintain World Class Standards on environmental performance as practiced. We are engaging with local community through CSR activities with the help of renowned and expert partner like CII, UNICEF, UNDP to improve their quality of life.
	The company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment.	Unit is maintaining great eco friendly environment in and around the plant and the community surrounding the plant. We have planted 200 trees in the nearby community outside plant premises.
10	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions	We are abiding by the condition. This will be completed before closing the Phase II of the expansion.
11	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and forests as well as the State Government along with implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	The unit has implemented ISO 14001 and sufficient funds are allotted for environmental management projects. Total expenditure for environment management is attached.

	Condition	Remarks
12	A copy of the clearance letter shall be sent by the project proponent to concern Panchayat, Zila Parisad/Municipal Corporation, Urban local body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	Completed. Copy of clearance letter are forwarded to Local Panchayat as well as BDO within one one week of the document received date.
13	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and TNPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	We are abiding by the condition. We are ensuring the six reports to concern regional office on regular basis. The last report has been sent on 09th December 2017.
14	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted 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 clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	We are abiding by the condition. Last report submitted on Sep 2017.
15	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/Committee and may be also be seen at Website of the Ministry 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 shall be forwarded to the concerned Regional Office of the Ministry.	Completed. We are published the same thorough Dinamalar as well as the Indian Express with in seven days.
16	The Project authorities shall inform the Regional office as well as Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	We are abiding the condition. We will inform the Regional office as well as Ministry when the entire phases got completed.

## Annexure II

## Stack monitoring report:

S. No	Parameter	Unit	Line No.	17-Oct		17-Nov		17-Dec		18-Jan		18-Feb		18-Mar	
				Boiler	Dryer	Boiler	Dryer	Boiler	Dryer	Boiler	Dryer	Boiler	Dryer	Boiler	Dryer
1	SPM	mg/ Nm <sup>3</sup>	I	27.28	34.46	24.04	29.11	25.4	26.79	27.11	33.53	36.58	35.64	41.25	36.25
			II	25.59	30.41	18.80	37.39	29.86	28.70	37.86	27.16	40.58	31.15	38.64	41.25
			III	29.91	36.45	31.77	25.65	36.87	33.6	35.15	29.37	39.81	30.08	37.63	35.56
2	SO <sub>2</sub>	mg/ Nm <sup>3</sup>	I	796.69	657.13	762.39	877.68	915.41	867.47	825.18	709.35	834.15	798.65	798.99	804.59
			II	674.54	723.3	725.83	864.63	838.44	769.87	883.41	740.77	824.25	785.65	802.65	865.35
			III	915.41	909.62	706.90	822.70	905.22	797.84	825.18	674.52	831.54	712.22	867.64	765.35
3	NOx	mg/ Nm <sup>3</sup>	I	403.1	362.98	259.69	222.23	293.15	305.7	371.54	280.13	412.36	312.56	365.46	296.41
			II	289.91	304.38	241.81	192.02	259.49	307.36	349.7	298.33	408.88	345.25	398.67	354.25
			III	308.03	324.43	218.69	263.14	311.15	336.04	344.08	291.11	398.48	324.51	432.25	365.58
4	Temperature	°C	I	568	692	577	686	563	701	550	705	542	699	559	689
			II	549	709	502	689	491	696	505	706	524	702	575	649
			III	582	790	585	588	526	605	536	605	265	613	564	623















**TAMIL NADU FOREST DEPARTMENT**

From  
K.Geethanjali,I.F.S,  
Wildlife Warden,  
Guindy Children's Park,  
Chennai - 22

To  
Principal Chief Conservator of Forests &  
Chief Wildlife Warden,  
Panagal Building,  
Saidapet,Chennai – 600 015  
Through Proper Channel

**Ref.No.3740/2011/D1 dated.20.12.2016**

Sir,

Sub: Forest and Wildlife Clearance – Expansion Carbon Block Plant (12,500 MTPM to 18,750MTPM) along with power plant (33.7 MW to 47 MW at SIPCOT Village,Pappankuppam, Gummidipoondi Taluk and Thiruvallur District, Tamil Nadu – Obtaining Wildlife Clearance – Online submission of proposal by the user agency – uploading of in Part- III details submissions - Regarding

Ref : 1. Online application uploaded by the user agency –  
M/s. SKI Carbon Block Private limited, Gummidipoondi,  
Proposal Ref. No.FP/TN/TIND/755/2016 Dated.09.08.2016

\*\*\*\*\*

It is submitted to inform that the Part – III details, site inspection report and recommendation by Wildlife Warden, Chennai for Obtaining Wildlife Clearance for Expansion Carbon Block Plant (12,500 MTPM to 18,750MTPM) along with power plant (33.7 MW to 47 MW at at SIPCOT Village, Pappankuppam, Gummidipoondi Taluk and Thiruvallur District, Tamil Nadu by the M/s. SKI Carbon Block Private limited, Gummidipoondi, Chennai has been uploaded online. This is for favour of kind information and necessary action.

**Encl: As stated above**

Copy submitted to Additional Principal Chief Conservator  
Of forest & Director, Aringar Anna Zoological Park,  
Vandalur, Chennai – 48

Copy to SKI Carbon Block Private limited, Phase II SIPCOT Village,  
Pappankuppam,Gummidipoondi District,Thiruvallur,Tamil Nadu

Yours faithfully,  
Sd/K.Geethanjali  
Wildlife Warden,  
Chennai

//true copy/by order//

Superintendent

20/12/16

20/12/16


Site Inspection Report of Wildlife Warden, Chennai

The site proposed for "Expansion of Carbon Black Plant (12,500 MTPM to 18,750 MTPM) along with Power Plant ( 33.7MW to 47 MW at K-16,Phase – II,SIPCOT Village Pappankulam,Gummidipoondi Taluk,Thiruvallur District, Tamil Nadu" was inspected by me on 01.07.2016. The project site is located outside the limits of Pulicat Birds Sanctuary but falls within the Eco sensitive zone of the Sanctuary. But, the project will not have any adverse impact on the biodiversity of Pulicat Birds Sanctuary. No violation of Forest (conservation) Act, 1980 has taken place in the project site.

  
Wildlife Warden  
Chennai

Report of Wildlife Warden, Chennai

The Pulicat Lake is essentially a back water lake and the lake along with the adjoining 13 villages namely, Pulicat, Kanavanthuraj, Pakkam, Avurivakkam, Siralappakkam, Annamaliacherry, Sirumurkuppam, Kirapakkam, Mangodu, Pungulam, Obasamudramkuppam, Sunnambukulam and Medipalayam constitute the Pulicat Birds Sanctuary. The area proposed for "Expansion of Carbon Black Plant (12,500 MTPM to 18,750 MTPM) along with Power Plant (33.7MW to 47 MW at K-16,Phase - II,SIPCOT Village Pappankulam,Gummidipoondi Taluk,Thiruvallur District, Tamil Nadu" is located outside the limits of Pulicat Birds Sanctuary but is located within the Eco Sensitive Zone of the Sanctuary. The project will not cause adverse impact on the bio-diversity of the Pulicat Lake. Hence "Recommended"

  
Wildlife Warden  
Chennai

TimeLine Details

Proposal received date at each stage of flow.

Submitted by User Agency	Query for Shortcoming(if any) by Wildlife Warden	Resubmission of Proposal by User Agency	Query by Wildlife Warden for submitting Hard Copies	Uploading(by U.A.) of copies of receipt received from Wildlife Warden	Wildlife Warden	Chief Wildlife Warden	State Government/SBWL	NBWL/MoEFCC(WL)
28/06/2016			09/08/2016	<del>09/08/2016</del>	Wildlife Warden, Chennai 22/08/2016	Tamil Nadu 20/12/2016		

NOTE:- Proposal is pending at Chief Wildlife Warden.



T-1728 &amp; T-2235

## LABORATORY SERVICES DIVISION



## TEST REPORT

Sample Ref.No:E-A-262L-03-P		Reported On: 29.03.2018			
Client name & Address :-		M/s. SKI Carbon Black (India) Private Ltd. K-16,Phase II, SIPCOT Industrial Complex, Gummudipoondi. P.O. Thiruvallur District. Tamil Nadu. Pin Code No.: 601 201.			
Sample Matrix	Ambient Air Quality				
Location	Packing House Area				
General Sampling Procedure	IS 5182 Method				
Sample Drawn by	Laboratory Representative				
Sampling On	22.03.2018				
Sampling Time	From 9.30 to 17.30				
Sample Received On	23.03.2018				
Test Commenced On	23.03.2018				
Test Completed On	29.03.2018				
S.No	Parameters	Units	Method	Results	NAAQ Standards for Industrial Area (TWA -24 Hrs)
1	Poly Aromatic hydrocarbon (PAH)*	ng/m <sup>3</sup>	IS 5182 Part 12 2004 RA 2009	<0.2	Not Specified

(i) NAAQ- National Ambient Air Quality Standards.

(ii) TWA - Time Weighed Average

\*Parameter not covered NABL scope.

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

Verified Signatory

M. PARVEEN BANU  
Sr. Chemist

Authorised Signatory

S.SATHIYA NARAYANAN  
Asst. Manager-Environment!

## NOTE :

- 1.The test results relate only to the items tested.
- 2.The test report shall not be reproduced anywhere except in full and in the same format without the permission of the laboratory.
- 3.Unless informed by customer , the test items will not be retained for more than 15 days from the date of issue of the test report.

Office :  
Aqua Designs India Private Limited  
Off 200 Feet Road, Kolathur  
Chennai - 600 099  
Tamilnadu, IndiaPhone : +91 44 37171717  
Fax : +91 44 37171737  
Email : lab@aquadesigns.in  
Web : www.aquadesigns.inwww.facebook.com/  
AquaDesignsIndia

Follow us on

www.twitter.com/  
AquaDesignsIndiawww.linkedin.com/company/  
aquadesigns-india-priv



T-1728 &amp; T-2235

## LABORATORY SERVICES DIVISION



## TEST REPORT

Sample Ref.No:E-A-296L-02-P

Reported On: 28.02.2018

Client name &amp; Address :-

M/s. SKI Carbon Black (India) Private Ltd.  
K-16,Phase II,SIPCOT Industrial Complex,  
Gummudipoondi - P.O, Thiruvallur - 601 201

Sample Matrix Ambient Air Quality  
Location Packing House Area  
General Sampling Procedure IS 5182 Method  
Sample Drawn by Laboratory Representative  
Sampling On 22.02.2018  
Sampling Time From 9.35 to 17.35  
Sample Received On 23.02.2018  
Test Commenced On 23.02.2018  
Test Completed On 26.02.2018

S.No	Parameters	Units	Method	Results	NAAQ Standards for Industrial Area (TWA -24 Hrs)
1	Poly Aromatic hydrocarbon (PAH)*	ng/m <sup>3</sup>	IS 5182 Part 12 2004 RA 2009	<0.2	Not Specified

(i) NAAQ- National Ambient Air Quality Standards.

(ii) TWA - Time Weighed Average

\*Parameter not covered NABL scope.

Verified Signatory

S.M.PARVEEN BANU  
Sr. Chemist

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

Authorised Signatory

S.SATHIYA NAKAYANAN  
Asst. Manager-Environmental

## NOTE :

- 1.The test results relate only to the items tested.
- 2.The test report shall not be reproduced anywhere except in full and in the same format without the permission of the laboratory.
- 3.Unless informed by customer , the test items will not be retained for more than 15 days from the date of issue of the test report.



Office :  
Aqua Designs India Private Limited  
Off 200 Feet Road, Kolathur  
Chennai - 600 099  
Tamilnadu, India

Phone : +91 44 37171717  
Fax : +91 44 37171737  
Email : lab@aquadesigns.in  
Web : www.aquadesigns.in



www.facebook.com/AquaDesignsIndia

Follow us on :



www.twitter.com/AquaDesignsIndia



www.linkedin.com/company/aqua-designs-india-private-ltd





T-1728 &amp; T-2235

## LABORATORY SERVICES DIVISION



## TEST REPORT

Sample Ref.No:E-A-147-01-P		Reported On: 29.01.2018			
Client name & Address :-		M/s. SKI Carbon Black (India) Private Ltd. K-16,Phase II,SIPCOT Industrial Complex, Gummudipoondi - P.O, Thiruvallur - 601 201			
Sample Matrix	Ambient Air Quality				
Location	Packing House Area				
General Sampling Procedure	IS 5182 Method				
Sample Drawn by	Laboratory Representative				
Sampling On	23.01.2018				
Sampling Time	From 9.30 to 17.30				
Sample Received On	24.01.2018				
Test Commenced On	24.01.2018				
Test Completed On	27.01.2018				
S.No	Parameters	Units	Method	Results	NAAQ Standards for Industrial Area (TWA -24 Hrs)
1	Poly Aromatic hydrocarbon (PAH)*	ng/m <sup>3</sup>	IS 5182 Part 12 2004 RA 2009	<0.2	Not Specified

(i) NAAQ- National Ambient Air Quality Standards.

(ii) TWA - Time Weighed Average

\*Parameter not covered NABL scope.

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

Verified Signatory

**S.SATHIYA NARAYANAN**  
Asst. Manager-Environment

Authorised Signatory

**G.MADHANAGOPAL**  
Lab Manager

## NOTE :

- 1.The test results relate only to the items tested.
- 2.The test report shall not be reproduced anywhere except in full and in the same format without the permission of the laboratory.
- 3.Unless informed by customer , the test items will not be retained for more than 15 days from the date of issue of the test report.



Office :  
Aqua Designs India Private Limited  
Off 200 Feet Road, Kolathur  
Chennai - 600 099  
Tamilnadu, India

Phone : +91 44 37171717  
Fax : +91 44 37171737  
Email : lab@aquadesigns.in  
Web : www.aquadesigns.in

www.facebook.com/  
AquaDesignsIndiawww.twitter.com/  
AquaDesignsIndiawww.linkedin.com/company/  
aquadesignsindia

Follow us on:



I 1728 & I 2235

LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref.No:E-A-241-12-P

Reported On:28.12.2017

Client name & Address :-

M/s. SKI Carbon Black (India) Private Ltd.  
K-16,Phase II,SIPCOT Industrial Complex,  
Gummudipoondi - P.O, Thiruvallur - 601 201

Sample Matrix Ambient Air Quality  
Location Packing House Area  
General Sampling Procedure IS 5182 Method  
Sample Drawn by Laboratory Representative  
Sampling On 23.12.2017  
Sampling Time From 9.15 to 17.15  
Sample Received On 26.12.2017  
Test Commenced On 26.12.2017  
Test Completed On 28.12.2017

S.No	Parameters	Units	Method	Results	NAAQ Standards for Industrial Area (TWA -24 Hrs)
1	Poly Aromatic hydrocarbon (PAH)*	ng/m <sup>3</sup>	IS 5182 PART 12 2004 RA 2009	<0.2	Not Specified

(i) NAAQ- National Ambient Air Quality Standards.

(ii) TWA - Time Weighed Average

\*Parameter not covered NABL scope.

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

Verified Signatory  
S. Sathiyarayanan

Asst. Manager- Environmental

Authorised Signatory

G.MADHANAGOPAL  
Lab Manager

NOTE :

- 1.The test results relate only to the items tested.
- 2.The test report shall not be reproduced anywhere except in full and in the same format without the permission of the laboratory.
- 3.Unless informed by customer , the test items will not be retained for more than 15 days from the date of issue of the test report.



Office :  
Aqua Designs India Private Limited  
Off 200 Feet Road, Kolathur  
Chennai - 600 099  
Tamilnadu, India

Phone : +91 44 37171717  
Fax : +91 44 37171737  
Email : lab@aquadesigns.in  
Web : www.aquadesigns.in



www.facebook.com/AquaDesignsIndia



www.twitter.com/AquaDesignsIndia



www.linkedin.com/company/aqua-designs-india-pvt-ltd



T-1728 & T-2235

LABORATORY SERVICES DIVISION



TEST REPORT

Sample Ref.No:E-A-337-11-P		Reported On: 04.12.2017			
Client name & Address :-		M/s. SKI Carbon Black (India) Private Ltd. K-16,Phase II,SIPCOT Industrial Complex, Gummudipoondi - P.O, Thiruvallur - 601 201			
Sample Matrix	Ambient Air Quality				
Location	Packing House Area				
General Sampling Procedure	IS 5182 Method				
Sample Drawn by	Laboratory Representative				
Sampling On	27.11.2017				
Sampling Time	From 9.25 to 17.25				
Sample Received On	28.11.2017				
Test Commenced On	28.11.2017				
Test Completed On	02.12.2017				
S.No	Parameters	Units	Method	Results	NAAQ Standards for Industrial Area (TWA -24 Hrs)
1	Poly Aromatic hydrocarbon (PAH)*	ng/m <sup>3</sup>	IS 5182 PART 12 2004 RA 2009	<0.2	Not Specified

(i) NAAQ- National Ambient Air Quality Standards.

(ii) TWA - Time Weighed Average

\*Parameter not covered NABL scope.

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

Verified Signatory

S.Sathiyarayanan

Asst. Manager- Environmental

Authorized Signatory

G.MADHANAGOPAL  
Lab Manager

NOTE :

- 1.The test results relate only to the items tested.
- 2.The test report shall not be reproduced anywhere except in full and in the same format without the permission of the laboratory.
- 3.Unless informed by customer , the test items will not be retained for more than 15 days from the date of issue of the test report.



Office :  
Aqua Designs India Private Limited  
Off 200 Feet Road, Kolathur  
Chennai - 600 099  
Tamilnadu, India

Phone : +91 44 37171717  
Fax : +91 44 37171737  
Email : lab@aquadesigns.in  
Web : www.aquadesigns.in



www.facebook.com/  
AquaDesignsIndia

Follow us on :



www.twitter.com/  
AquaDesignsIndia



www.linkedin.com/company/  
aqua-designs-india-pvt-ltd

Annexure - IIa

65

Raja  
Original letter  
for your record  
SPathi  
13/9/2012

F. No. J-11011/350/2010- IA II (I)  
Government of India  
Ministry of Environment and Forests  
(I.A. Division)

Paryavaran Bhawan  
CGO Complex, Lodhi Road  
New Delhi - 110 003

E-mail : [aditya.narayan@nic.in](mailto:aditya.narayan@nic.in)  
Telefax : 011: 2436 549  
Dated 7<sup>th</sup> September, 2012

To, ✓  
The Chief Operating Officer  
M/s Hi-Tech Carbon, India ( A Unit of Aditya Birla NUVO Limited)  
K-16, Phase-II, SIPCOT Industrial Complex, Gummidipoondi,  
District Thiruvallur-601 201, Tamil Nadu.

E-mail: [hitechr@adityabirla.com](mailto:hitechr@adityabirla.com); [s.rathi@adityabirla.com](mailto:s.rathi@adityabirla.com); [rohit.raina@adityabirla.com](mailto:rohit.raina@adityabirla.com);  
Fax No.: 044- 2789116.

Corrigendum

Subject: Expansion of Carbon Black Plant (12,500 MTPM to 18,750 MTPM) alongwith  
Power Plant (33.7 MW to 47 MW) at K-16, Phase-II, SIPCOT Village  
Pappankuppam, Gummidipoondi, District Thiruvallur, Tamil Nadu by M/s  
High-Tech Carbon India (A Unit of Aditya Birla NUVO Limited) -reg.

Ref. : (i) Ministry's even no. letter dated 21<sup>st</sup> September, 2011 and 18<sup>th</sup> June, 2012.  
(ii) Your letter no. nil dated 28<sup>th</sup> June, 2012.

Sir,

Reference is invited to Ministry's letter of even no. dated 21<sup>st</sup> September, 2011 and  
18<sup>th</sup> June, 2012 as well as your letter dated 28<sup>th</sup> June, 2012. Your proposal was examined in  
the Ministry in light of decision taken in the 32<sup>nd</sup> EAC meeting held during 16-17<sup>th</sup> February,  
2012. Accordingly, following corrections may be made in the Ministry's even no. letter dated  
21<sup>st</sup> September, 2011 and 18<sup>th</sup> June, 2012:

Para 7.0; A Specific Conditions; v:

For:

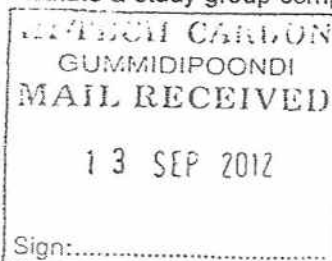
"Continuous on-line monitoring of particulate matter, SO<sub>2</sub> and NOx should be ensured and  
proper calibration should be done time to time. Vent scrubbers should be provided to  
reactors. Electrostatic precipitator (ESP) should be provided to the boilers. Carbon content in  
the particulate matter should also be measured."

Read:

"Continuous on-line monitoring of particulate matter, SO<sub>2</sub> and NOx should be ensured and  
proper calibration should be done time to time. Efficient bag filter should be provided before  
the boiler".

Para 7.0; A Specific Conditions; vii:

Regarding installation of FGD condition, matter is referred to the Ministry's CP Division to  
constitute a study group comprising CPCB to study the suitability for the installation of FGD.



The condition may be kept in abeyance till the recommendation of study group is submitted and decision is taken by the Ministry.

Para 7.0; A Specific Conditions; xxvii:

For :

"Green belt should be developed in 30 acres out of total 62 acres."

Read :

"Green belt should be developed in 18.55 acres out of total 56.44 acres."

2.0 All other conditions will remain unchanged.


3.0 This has been issued with prior approval from the Competent Authority.

3.0 You are requested to keep this letter with the amendment accorded vide letters no. J-11011/350/2010- IA II (I) dated 21<sup>st</sup> September, 2011 and 18<sup>th</sup> June, 2012.

  
(A N Singh)  
Dy. Director

Copy to:

1. The Principal Secretary, Department of Environment, Ground Floor, Panagal Buildings 1, Jeenu Road, Saidapet, Chennai - 600 015.
2. The Chief Conservator of Forests, Regional Office (Southern Zone, Bangalore) Kendriya Sadan, 4th Floor, E&F Wing, II Block Koramangala, Bangalore-560034.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Tamil Nadu Pollution Control Board, Corporate Office, 76, Anna Salai, Guindy, Chennai - 600 032.
5. Joint Secretary, IA II(I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Guard File/Monitoring File/Record File.

  
(A N Singh)  
Dy. Director



Ref.: SKI/UH/006/2015

Date: 28.04.2015

The Director  
Ministry of Environment, Forests & Climate Change  
Government of India,  
Indira Paryavaran Bhawan,  
Jor Bagh Road,  
New Delhi-100 003.

Sub: Expansion of Carbon Black Plant (12500 MTPM to 18750 MTPM)  
along with Plant (33.7 MW to 47 MW) at Gummidipoondi,  
Dist. Thiruvallur, Tamil Nadu.

Ref: MoEF File No. J-11011/350/2010-IA.II(I)

Dear Sir,

We were granted Environmental Clearance for our Carbon Black Plant from 12500 MTPM to 18750 MTPM at Gummidipoondi (Tamil Nadu).

In the context of a Condition No.(vii) of the Environmental Clearance under reference relating to installation of FGD, the issue has been referred to the CP Division for their comments before taking a decision for deletion of this condition.

We have been given to understand by the CP Division that Carbon Black is not covered under any standards for sulphur emission except stack height. We have also held extensive technical discussions with some of the environmental experts who have opined as under:-

1. There is no proven technology available for installation of FGD in the co-generation power plants of Carbon Black. The power generated is based on the lean gas and not any other fuels like coal etc.
2. FGD has not been installed in any of the Carbon Black Plants. The only project proponent, i.e. Continental Carbon, which was granted Environmental Clearance based on FGD, is a non-starter.
3. The control of sulphur-di-oxide emissions in a Carbon Black plant can be achieved by ensuring that the Carbon Black Feedstock does not contain sulphur above 3% (as stipulated in CPCB norms).
4. Pilot plant studies conducted in consultation with IIT, Chennai revealed that installation of FGD through wet process involves consumption of a large quantity of water. In addition, the disposal of waste water arising out of the installation is an area of concern.

SV

SPI Carbon Black (India) Private Limited  
(Unit - Hi-Tech Carbon, Gummidipoondi)  
K-16, Phase II, SIPCOT, P.O. Gummidipoondi  
Dist. Thiruvallur - 601 201, Tamil Nadu - 601201

Telephone +91 44 27989223 - 36  
Fax +91 44 27989129, 29

Website www.birlacarbon.com  
E-mail info@adityabirla.com

Marketing Office: 910 - 911, Kailash Building, Kasturba Gandhi Marg, New Delhi - 110 001 Telephone +91 11 23351069-71 Fax +91 11 23350594  
Regd. Office: Aditya Birla Centre, S. K. Ahire Marg, Worli, Mumbai - 400 030, India Telephone +91 22 66525000

Our submissions:

4. Gummidipoondi in Tamil Nadu is an area, where there is a shortage of water. By installation of FGD, our requirement of water for scrubbing 1,70,000 nm<sup>3</sup>/hour of flue gas will be 9384 m<sup>3</sup>/day as against the total water requirement even after the proposed expansion will be only 2500 m<sup>3</sup>/day.
5. The installation of FGD without a proven technology could end up in high water consumption and waste water generation. Our plant is presently operating on 'Zero Discharge' and we shall maintain the same.
6. The environment implications of disposal of solid waste and effluent through FGD will be more than the benefits from the FGD.

Our undertaking to reduce the impact of SO<sub>2</sub> emissions:

3. The stack height will be maintained as per CPCB guidelines. We propose to maintain a stack height of 75-m.
4. The So<sub>2</sub> emissions will be controlled by ensuring use of Carbon Black Feedstock with sulphur content 2.75%.

Request:

In order to ensure that the expansion project is implemented without further delay, we request that the condition of installation of FGD may please be deleted from the 'Environmental Clearance' with the stipulations of stack height and sulphur content in the Carbon Black Feedstock as undertaken by us.

Thanking you,

Yours faithfully,  
For SKI CARBON BLACK (INDIA) PVT. LTD.  
(Unit: Hi-Tech Carbon, Gummidipoondi)



S.S. RATHI  
MANAGING DIRECTOR

CC:

The Director  
CP Division  
Ministry of Environment & Forests  
New Delhi