Half Yearly Compliance Report

of

Stipulated Specific & General Conditions of CRZ Clearance

Period: October 2022 – March 2023

for

'Carnoustie Beach Resort'

at

Chennaveli, Chethi, Mararikulam North, Cherthala Taluk, Alappuzha District, Kerala-688553

CRZ Clearance No. 11-144/2010/IA-III

Application No. carnoustie/MBR/CRZ/2-10

Proponent

M/s Carnoustie Resorts Private Limited

Mararikulam, Chennaveli, Chethy (P.O.) Alappuzha, Kerala.

Submitted to
Ministry of Environment, Forest & Climate Change (MoEF&CC)

Prepared by



Environmental Consultancy And Laboratory

NABET Accredited EIA Consulting Organization Certificate No.: NABET/EIA/2023/ RA 0194 valid till: June 06, 2023 First Floor, Door No .55, 1308-B, Club Rd Girinagar,

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MAY 2023



To

The Regional Director, MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th floor, E&F Wings, Block II, Koramangala, Bangalore 19th April 2023

Sub: Half yearly Compliance Report of stipulated conditions in the CRZ Clearance for the Building Beach Resort' located in Survey No 11,12,13,14,15,16,17,18&26 at Chennavel, Chethi P.O., Mararikulam North, Cherthala Taluk, Alappuzha - 688553by M/sCarnoustiePvt. Ltd.

Reference: Application No: carnoustie/MBR/CRZ/2-10dated 30.09.2010; File No: 11-114/2010-IA-III dated 19.05.2011.

Respected Sir.

Our Building ProjectCarnoustie Beach Resort located in Survey No 11,12,13,14,15,16,17,18 and 26 Chennavel, Chethi P.O., Mararikulam North, Cherthala Taluk, Alappuzha-688553, was accorded CRZ Clearance from MoEF&CC after the recommendation from KCZMA videApplicationNo: carnoustie/MBR/CRZ/2-10; File No: 11-114/2010-IA-III dated on 19.05.2011.

The report of the compliance to the specific and general conditions of the CRZ Clearance for the period of October 2022 - March 2023 is enclosed for your kind perusal.

Yours respectfully

ForM/s Carnoustie Resort Pvt. Ltd.

Authorized Signatory

Sabu Abraham Chief Engineer

Copy to:

The Member Secretary Kerala Coastal Zone Management Authority Directorate of Environment and Climate Change. Pallimukku, Pettah P.O., Thiruvananthapuram - 695024

MARARIKULAN

CHETHY P.O. KERALA

INDAP

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Chapter 1 Introduction And Project Description

Carnoustie Ayurveda and Wellness Resort, a luxurious Ayurveda and Wellness Beach Resort by M/s Carnoustie Resorts Private Limited received CRZ Clearance in the year 2011 from Ministry of Environment and Forest & Climate Change (MoEF&CC) with recommendation from Kerala State Coastal Management Authority (KCZMA) vide letter no. 302/A2/10/KCZMA dated 04.09.2010 for the construction of Carnoustie Ayurveda and Wellness Resort at Chennaveli, Chethi, at Mararikkulam North Village, Cherthala Taluk, Alappuzha District. Project lies in between 200 m and 500 m on landward side from Hide Tide Line.

The CRZ Clearance vide clearance no: 11-144/2010/IA-III dated 19.05.2011 (attached as Annexure 1) was obtained for the construction of 40 cottages for a total built-up area of 4647.06 m2. The total plot area as per CRZ Clearance is 7.0309 ha where only 32 cottages were fully constructed and operational at the site and the built-up area of partially constructed buildings is 2,247.06 m². Furthermore, the proponent wishes to expand the existing resort building for a built-up area of 7,532.41 m². Hence, the total built-up area after the proposed expansion will become 14,426.53 m².

Thus, in the purview of CRZ Notification, 2011 the proponent has again applied for CRZ Clearance, for a built-up area of 9,779.47 m², i.e., the sum of built-up areas of partially constructed buildings and proposed buildings. Thereupon, KCZMA in its 123rd meeting discussed the proposal and decided to recommend & forward the proposal to MoEF&CC vide reference letter no. 2166/A1/2019/KCZMA dated 27.07.2022 (attached as Annexure 2).

The initial building permit for the project was obtained from the Mararikulam North panchayat for the built-up area of 4,647.06 m² in 2009 with permit no. BP-856/09-10 dated 11th June 2009 which was renewed in 2012 with permit no. BP-856/2009-10 dated 28th September 2012 and in 2016 with permit no. A4-3083/KPBR/2016/17 dated 21st November 2016; and copies of the same are attached as Annexure 3. The site plan was approved from Office of Chief Town Planner, Thiruvananthapuram with order no. C3/840/12/DDS and site plan no. 132/2012 dated 17th March 2012 for a total built-up area of 7,754.08 m². The project has obtained Consent to Establish (CTE), Consent No. PCB/ALP/ICE-112/09 dated 19th June 2009 and Consent to Operate (CTO), Consent No. PCB/RO/ALPA/ ICO-R/03/2019 dated 03rd May 2019 valid till 30th April 2023 from Kerala State Pollution Control Board (KSPCB) which are attached as Annexure 4.

The total plot area after the proposed expansion is 8.8465 ha. The existing FSI is 0.074, which will become 0.171 after the proposed expansion. The permissible FSI for CRZ III area is 0.33. The height of the proposed buildings will not exceed 9.0 m, which is the maximum allowable height of buildings in CRZ-III area. The total Green Area maintained is 33.9%.

This Half Yearly Compliance Report (HYCR) is submitted for the compliance period of 'October 2022 to March 2023' as per stipulated specific and general conditions of CRZ Clearance vide clearance no: 11-144/2010/IA-III dated 19.05.2011. Proponent is fully conscious about Environmental Management for the project and adhered fully to the conditions specified in the CRZ Clearance.

Chapter 2 Brief Summary of the Project

Item	Description		
Name of the Project	Carnoustie Beach Resort at Chennaveli, Chethi P.O.,		
Name of the Project	Mararikulam North Village, Cherthala Taluk, Alappuzha		
Category/Subcategory & Schedule	Beach Resort		
Location	Chennaveli, Chethi P O, Mararikulam North Village,		
Location	Cherthala Taluk, Alappuzha District, Kerala		
	14/3-1, 15/1-1, 15/1-2, 15/3, 15/4, 16/1-2, 16/1-3, 16/1-4,		
	16/5, 17/1, 17/2, 17/4-1, 17/6, 17/7-1, 17/7-2, 18/1, 18/2-1,		
	18/2-2, 18/3, 18/8-1, 18/8-2, 18/9, 26/11, 28/2, 11/1-4, 11/1-		
Plot/Survey No.	5, 11/4, 11/5, 12/3, 12/5, 12/6, 12/7, 12/8, 12/9, 12/11, 12/13,		
	12/10-1, 12/10-2, 13/1, 13/2, 13/5, 13/6, 13/7, 13/8, 13/9,		
	13/10, 14/2, 14/3-2, 14/4, 18/5, 19/1-4, 19/2, 19/3, 19/4, 19/5,		
	19/6, 19/7, 19/8, 19/9, 19/10, 26/9, 28/1, 28/6		
District	Alappuzha		
Taluk	Cherthala		
Village	Mararikulam North		
Geo Co-ordinates	Latitude (N) : 9°37'58.28" N		
Geo Co-ordinates	Longitude (E) : 76°17'54.49" E		
Total Plot Area	7.0309 ha		
Total Built Up Area	4647.06 m ²		
Distance from HTL	200 to 500 m		
Length of Coastline	240.1 m		
Facilities Provided	Cottages, Restaurant/Bar		
No. of Cottages	40		
No. of seats for Restaurant/Bar	100		
Total Water Requirement	26.9 kLD		
Freshwater Requirement	17.5 kLD		
Power Requirement	400 kVA (KSEB)		
Rainwater Harvesting	270 m ³		
Quantity of Recycled Water Used	Flushing: 7.20 kLD		
Qualitity of Recycled Water Osed	Horticulture: 12.361 kLD		
Quantity of Solid waste generated	63.6 kg/day		
Project cost	INR 26.92 Cr.		
Access Road	SH 66		

Chapter 3 Compliance of Stipulated Conditions of CRZ Clearance

3.1 Specific Conditions stipulated in CRZ Clearance No. 11-144/2010/IA-III)

S. No	Conditions of CRZ Clearance	Status of Compliance
i.	Consent to Establish/Operate for the project	Complied.
	shall be obtained from the State Pollution	The project has obtained CTE (Consent No.
	Control Board under Air and Water Act and a	PCB/ALP/ICE-112/09 dated 19 th June
	copy shall be submitted to the Ministry before	2009) and CTO for the period of 2019 to
	start of any construction work at site	2023 (Consent No. PCB/RO/ALPA/ICO-
		R/03/2019 dated 03.05.2019 valid till
		30.04.2023) from KSPCB. And application
		for the renewal of the consent for the
		continuance of operation of the
		establishment for the next five years has
		been submitted to KSPCB on 29th April
		2023. All the construction were done in
		accordance with the local building bye
		laws. CTE/ CTO are attached as Annexure
		4.
ii.	There shall be no fencing / construction within	Complied.
	200 m from HTL, not even temporary boundary	There are no construction activities carried
	wall.	out within 200 m from HTL.
iii.	There shall be no groundwater drawal within	Complied
	CRZ area. The details submitted.	The water requirements are fulfilled by
		authorized vendor for drinking water
		purposes and additional water requirement
		is met with rainwater harvesting tank of
		capacity 270 m ³ , open well and recycled
		water. The proponent has obtained
		permission from District Officer, Groundwater Department, Alappuzha for
		the construction of Tube Well which is
		attached as Annexure 5.
iv.	A revised map showing the coordinates of HTL,	Complied
1	200 m line 500 m boundary discrete at 25 m/50	CRZ Map prepared by Institute of Remote
	m etc. as appropriate shall be submitted to the	Sensing, Anna University, Chennai on a
	Ministry within 3 months, in place of mere lines	scale of 1:4000 superimposed with Layout
	shown in the map prepared by NIO (or any	Plan of project site is attached as Annexure
	authorized agency) so as to enable verification	6.
	of installations and compliance thereof on the	
	ground later when the work is in progress.	
v.	Sewage shall be treated and the Treatment	Being Complied.

S. No	Conditions of CRZ Clearance	Status of Compl	iance		
	facility shall be provided in accordance with the	Sewage Treatm	ent facility	with adeq	uate
	Costal Regulation Zone Notification, 2011. The	capacity is insta	lled within t	he project	site.
	disposal of treated water shall confirm the	Out of total	quantity of	waste w	ater
	regulation of the State Pollution Control Board.	recycled, 7.2 kLD of treated water is use		used	
		for flushing pu	rposes and	12.36 kLI	of of
		waste water is u	sed for horti	culture.	
		The monitoring	g results of	treated w	ater
		collected from S	STP Outlet is	s given bel	ow:
		Parameters	Test	СРСВ	
		Parameters	Result	Standard	d
		pН	7.32	5.5-9.0	
		TSS	18.0	100 (Max	()
		BOD	15.0	30 (Max))
		COD	48.0	250 (Max	()
		Oil & Grease	<1.00	10 (Max)	
		The monitoring	of treated w	ater from	STP
		outlet confirms	to the 'Gen	eral Stand	ards
		For Dischar	ge of	Environme	ental
		Pollutants Part	-A: Effluent	s' specified	d by
		Central Pollutio	n Control B	oard (CPC)	B).
		The photograph of Sewage Treatment			
		Facility is given below:			
vi.	Solid waste Management shall be as per	Being Complied	l		
	Municipal Solid (Management and Handling)	Solid waste	generated	during	the

S. No	Conditions of CRZ Clearance Status of Compliance		
	Rules, 2000	operational phase Biodegradable waste converted into biogas Other solid wastes disposed through auth per Municipal Solid W & Handling) Rules, 200	e generated are in a bio-digester. are collected and norized recyclers as fastes (Management
vii.	Public access to the beach shall be provided.	The existing public account affected or obstructor the project.	
viii.	No construction works other than those permitted in Costal Regulation Notification shall be carried out in Costal Regulation Zone Area.	Complied Proponent is well away works other than those CRZ Notification shout CRZ Zone. Hence, a works were carried permitted area as per No. 11-144/2010/IA- prepared by Institute of Anna University, Che 1:4000 superimposed v project site is attached.	the permitted in the ld not be carried in ll the construction out within in the the CRZ Clearance HII). CRZ Map of Remote Sensing, nnai on a scale of with Layout Plan of
ix.	The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive	head of the management cell. Meeting of management cell has been arranging monthly to discuss the status of the compliance of the specific and general conditions stated in the Environmental clearance. Details of Management cell are given below. Name Designation	
		Sabu Abraham Karl Freese Harris. P. Ibrahim, Prabha PV Health Instructor: Cherthala	Head Control Officer Members KVM Hospital,
х.	The funds earmarked for environmental management plan shall be included in the budget	Being Compiled A detailed EMP has	been prepared and

S. No	Conditions of CRZ Clearance	Status of Compliance
	and this shall not be diverted to for any other	utilized without being diverted for any
	purpose.	other purposes during construction and
		operaation phases.

3.2 General Conditions stipulated in CRZ Clearance No. 11-144/2010/IA-III)

S. No.	Conditions of CRZ Clearance	Status of Compliance
1.	Full support shall be extended to the officers of this Ministry/Regional Office at Bangaluru by the project Proponent during the inspection of the project for the monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other Environmental Protection activities.	Agree to comply.
2.	A six – Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bangaluru regarding the implementation of the stipulated conditions.	Being Compiled. This Half Yearly Compliance Report is submitted for the period of 'October 2022 to March 2023' as per stipulated specific and general conditions of CRZ Clearance vide clearance no: 11- 144/2010/IA-III dated 19.05.2011 to the Regional Office of MoEF&CC, Bengaluru as soft copy (e-mail) as per the Notification from MoEF&CC, S.O.5845 (E) dated 26th November 2018.
3.	Ministry of Environment & Forest or any other competent authority may stipulate any additional conditions or modify the existing ones, if the necessary in the interest of environment and the same shall be complied with.	Agree to comply.
4.	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	Agree to comply.
5.	In the event of a change in project profile or change in the implementation agency, fresh reference shall be made to the Ministry Environment and Forests.	Agree to comply.
6.	The project proponents shall inform the Regional Office as well as the Ministry, date of financial Closure and final approval of the project by the concerned authorities and the date of start of land	Complied.

S. No.	Conditions of CRZ Clearance	Status of Compliance
	development work.	
7.	A copy of the clearance letter shall be marked to concerned Panchayat / local NGO, if any from whom suggestion / representation has been made received while processing the proposal.	Complied.
8.	Kerala Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Center and Collector's Office /Tehsildar's office for 30 days.	Complied.
9.	These stipulations would be enforced among others under provisions of water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981, the Public Liability (Insurance) Act and EIA Notification 1994, including the amendments and rules and made thereafter.	Being Complied. The project has obtained CTE (Consent No. PCB/ALP/ICE-112/09 dated 19 th June 2009) and CTO for the period of 2019 to 2023 (Consent No. PCB/RO/ALPA/ICO-R/03/2019 dated 03.05.2019 valid till 30.04.2023) from KSPCB. And application for the renewal of the consent for the continuance of operation of the establishment for the next five years has been submitted to KSPCB on 29 th April 2023. CTE/ CTO are attached as Annexure 4. Further, all the provisions / conditions of water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, and Municipal Solid Wastes (Management and Handling) Rules, 2000 including the amendments and rules made
10.	All other statutory clearances such as the approvals for	thereafter are being complied. Being Complied.
10.	storage of diesel from Chief Controller of Explosives, Fire department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	The project obtained initial NOC from Divisional Officer, Fire and Rescue Services, Kottayam on 14 th December 2012 and has been renewed every year. Latest Fire &

S. No.	Conditions of CRZ Clearance	Status of Compliance
		Safety Clearance was obtained
		from Station Officer, Cherthala
		Fire & Rescue Station valid till 20st
		April 2024. Fire & Safety NOC is
		attached as Annexure 7.
11.	The project proponent shall advertise in at least two	Complied
	local Newspapers widely circulated in the region, one	Regarding the conformity of CRZ
	of which in be vernacular language informing that the	Clearance to the construction
	project has been accorded Environmental Clearance	activity, it was advertised in two
	and copies of clearance letters are available with the	local newspapers.
	State Pollution Control Board and may also be seen on	
	the website of the Ministry of Environment, Forest and	
	Climate Change at http://www.envfor.nic.in. The	
	advertisement shall be made within 10 days from the	
	date of receipt of the Clearance letter and a copy of the	
	same shall be forwarded to the Regional Office of this	
	Ministry at Bangaluru.	
12.	Environmental Clearance is subject to final order of	Not Applicable
	the Hon'ble Supreme Court of India in the matter of	Since the total built up area of
	Goa Foundation Vs. Union of India in Writ Petition	buildings is 4647.06 m ² as per CRZ
	(Civil) No. 460 of 2004 as may be applicable to this	Clearance No. 11-144/2010/ IA-
	project.	III, Environmental Clearance is not
		applicable for the project.
13.	Status of compliance to various stipulated	Being Compiled.
	environmental conditions and environmental	Half Yearly Compliance Reports
	safeguards will be uploaded by the project proponent	as per stipulated specific and
	in its website.	general conditions of CRZ
		Clearance vide clearance no: 11-
		144/2010/IA-III dated 19.05.2011
		is being uploaded by the proponent
		in their website.
14.	A copy of the clearance letter shall be sent by the	Complied
	proponent to concerned Panchayath, Zilla	
	Parishad/Municipal Corporation, Urban Local Body	
	and the Local NGO, if any, from whom suggestions/	
	representations, if any, were received while processing	
	the proposal. The clearance letter shall also be put on	
	the website of the company by the proponent.	
15.	The proponent shall upload the status of compliance of	Being Compiled.
	the stipulated EC conditions, including results of	Compliance Report for the
	monitored data on their website and shall update the	stipulated conditions of CRZ
	same periodically. It shall simultaneously be sent to the	Clearance (vide clearance no: 11-

S. No.	Conditions of CRZ Clearance	Status of Compliance
	Regional Office of MoEF&CC, the respective Zonal	144/2010/IA-III dated 19.05.2011)
	Office of CPCB and the SPCB	has been prepared for every half
		yearly period and environmental
		monitoring has been carried out
		periodically. And the same has
		been updated on the website as
		well as submitted to the Regional
		Office, MoEF&CC, Bengaluru.
		The Monitoring data for the period
		October 2022 to March 2023 is
		attached as Annexure 8.
16.	The proponent shall also submit six monthly reports on	Being Compiled.
	the status of compliance of the stipulated EC	Half yearly CRZ Compliance
	conditions, including results of monitored data (both in	reports prepared has been
	hard copy as well as by email) to the respective	submitted to regional office of
	Regional Office of MoEF&CC, the respective Zonal	MoEF&CC, Bengaluru
	Office of CPCB and the SPCB	periodically as per the stipulated
		specific and general conditions of
		CRZ clearance vide clearance no:
		11-144/2010/IA-III dated 19 th May
		2011 including the monitoring
		data.
17.	The environmental statement for each financial year	Not Complied
	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 EC	
	conditions and shall also be sent to the respective	
	Regional Offices of MoEF&CC by e-mail.	

Chapter 4 Environmental Monitoring

4.1 Monitoring Locations

Environmental monitoring involves monitoring for key environmental attributes. The monitoring was carried out through primary field sampling for ambient air, noise, soil, ground water and wastewater. The details of locations selected for environmental monitoring is given Table 4.1.

S. No. of Attribute Longitude Latitude Landmark locations No. 9°37'56.97"N 76°17'46.28"E **Project Site** 2 1 Ambient Air St. Antony's Church, 76°17'46.28"E 9°37'56.97"N Perunneermangalam 2 Noise level 1 3 Groundwater 1 76°17'46.28"E 9°37'56.97"N **Project Site** 4 Waste Water 2 5 Soil Quality 1

Table 4.1: Environmental Monitoring Locations

4.2 Ambient Air Quality Monitoring

Assessment of baseline air quality was undertaken to assess the background air quality within the project site as it is essential to analyze the incremental load on the ambient air quality due to the project. Lab authorized dust sampler was used to collect Ambient Air Quality (AAQ) monitoring data, which is a portable monitor that records real time data from the project site.

The results of the ambient air quality parameters monitored was checked against the permissible National Ambient Air Quality Standards (NAAQS) to compare the prevailing conditions with desirable quality of air at the project location. It has been also compared against October 2020-March 2021 monitoring results. The detailed on-site monitoring results at the project site is presented in Table 4.2.

S. No.	Parameter	Unit	Unit Method		Results as per Oct 2020 -Mar 2021		sent	Limit as per NAAQ
110.				AAQ1	AAQ2	AAQ1	AAQ2	Standards
1.	PM ₁₀	μg/m ³	IS 5182 (Part 23): 2006	43.2	37.4	50.5	50.3	100
2.	PM _{2.5}	μg/m ³	IS 5182 (Part 24): 2019	20.7	17.6	26.2	25.8	60
3.	SO_2	μg/m ³	IS 5182 (Part 2): 2001	<2	<2	<4.00	<4.00	80
4.	NO ₂	μg/m ³	IS 5182 (Part 6): 2006	<2	<2	<4.00	<4.00	80

Table 4.2: Ambient Air Quality Monitoring Results

From the analysis monitored data, it is seen that the air quality for all the monitored parameters is within the permissible limits specified by Central Pollution Control Board (CPCB) in NAAQS, but has slightly shown an increase with respect to the monitoring results of October 2020 to March 2021 half yearly

compliance period.

4.3 Noise Level Monitoring

The main objective of noise level monitoring at the project site is to assess the present ambient noise levels due to various activities such as installation equipment, vehicular movement, construction activities and operation of DG sets, etc. Observed noise level values were then compared against the Noise Level Limits as per *Noise Pollution (Regulation and Control) Rules, 2000* which is given in Table 4.3.

Table 4.3: Noise Level limits as per Noise Pollution (Regulation and Control) Rules, 2000

	Industrial Area	Commercial Area	Residential Area	Silence Zone*
Day Time	75	65	55	50
Night Time	70	55	45	40

*Silence zone is defined as an area comprising not less than 100 metres around hospitals, educational institutions and courts. The silence zones are zones which are declared as such by the competent authority

According to the scheduled categories of area/zone as per Noise Pollution (Regulation and Control) Rules, 2000), the project site falls under the category of Residential Area with Day time Leq Level 55 dB(A) and night time Leq Level 45 dB(A). The results of the noise level monitored were checked against the permissible noise level limits to compare the prevailing noise conditions with desired quality at the project location. The observed baseline ambient noise quality parameters should confirm to the standards specified for the area during the day as well as in the night. The Ambient Noise monitoring results are summarized in Table 4.4.

Table 4.4: Ambient Noise Monitoring Results

S. No.	. Monitored Noise Levels Value Report		d in dB (A) Leq	
5. 110.	Wontered Noise Levels	Day Time	Night Time	
1.	As per October 2020 - March 2021	40.5	36.2	
2.	Present Data	48.7	39.0	

The day time as well as the night time noise level Leq were found that within limits prescribed for residential area. An effect in the increase in the present noise level compared with October 2020 – March 2021 correlates to the increase in operation activities of the project.

4.4 Soil Quality Monitoring

Testing of soil samples are important for several reasons; the major objective is to determine the fertility level, reactivity (acidic/alkaline), conductivity and available nutrient status. Evaluating these parameters, thus aids to protect the environment from pollution by controlling waste disposal etc. at the project location. 500g of soil sample was collected in a plastic bag which was fit for analysis to monitor the soil quality. The methods and parameters as well as the results of the monitoring is given in Table 4.5.

Table 4.5: Soil Quality Monitoring Results

S.	Parameters	Unit	Methods	Results		
No.	1 arameters	Omt	Methous	Oct 2020-Mar 2021	Present	
1.	pH at 25° C		IS 10158:1982	6.06	6.02	
2.	Conductivity	μS/cm	IS 14767:2000	102	210	
3.	Water Holding Capacity	%	SEAAL/ENS/	58	58.2	

S.	Doromotors	Parameters Unit Methods -		Results	
No.	1 at affecters			Oct 2020-Mar 2021	Present
			SLS/SOP/01		
	Particle Size Clay		SEAAL/ENS/	38.5	11.2
4.	Distribution Sand	%	SLS/SOP/14	16.3	48.6
	Silt		5L5/501/14	45.2	40.2
5.	Organic Matter	%	IS 2720 (Part	0.23	0.2
J.	Organic Watter	70	221:1992)	0.23	0.2
6.	Sodium as Na	%	USEPA 7000B:2009	0.48	0.14
7.	Chloride	%	SEAAL/ ENS/ SLS/	0.49	0.68
/ .	Cilioride	/0	SOP/08	0.49	0.00
8.	Sulphur	%	SEAAL/ENS/	0.12	0.12
0.	Sulphul	70	SLS/SOP/03	0.12	0.12
9.	Total Kjeldahl Nitogen	%	IS 14684:1999	0.06	0.14
).	as N	/0	13 14004.1999	0.00	0.14
10.	Available Potassium	meq/	SEAAL/ENS/	14.4	78.5
10.	Available Folassiuili	100g SLS/SO	SLS/SOP/03	14.4	10.5
11.	Total Phosphorous as P	%	IS 10158: 1982	34.2	0.12

Soil pH shows the degree of acidity or alkalinity of a soil. The monitored pH value 6.06 indicates acidic soil, pH value range between 6.0-8.5 is normal to saline soil type. Conductivity is directly related to the amount of soluble salts in the soil. The conductivity measured is $210~\mu\text{S/cm}$ which shows saline seeps as the project site is located at Coastal Regulation Zone (CRZ). Testing the Nitrogen-Phosphorus-Potassium values can determine the nutrient deficiency of the soil and the tested sample shows high levels of Potassium.

4.5 Groundwater Quality Monitoring

To assess the groundwater quality, groundwater was collected from the bore well existing at the project site. The collected water samples were tested as per the test methods given in the table below. The groundwater quality monitoring results and the requirement as per acceptable limit of *Indian Standard Drinking Water - Specification (Second Revision); IS 10500:2012* are given in Table 4.6.

Table 4.6: Groundwater Quality Monitoring Results

S.				Result	S	Requirement as per
No.	Parameters	Unit	Methods	As per Oct 2020-Mar2021	Present	Acceptable Limit of IS 10500: 2012
1.	Colour	Hazen	IS 3025 (Part 4): 1983	1	1	5 (Max)
2.	Odour		IS 3025 (Part 5): 2018	Agreeable	Agreeable	Agreeable
3.	Turbidity	NTU	IS 3025 (Part 10): 1984	0.4	0.6	1.0 (Max)
4.	рН		IS 3025 (Part 11): 1983	6.57	7 .49	6.50 - 8.50

Half Yearly Compliance Report of resort project 'Carnoustie Beach Resort' (CRZ Clearance No. 11-144/2010/IA-III): October 2022 – March 2023

S.				Result	ts	Requirement as per
No.	Parameters	Unit	Methods	As per Oct 2020-Mar2021	Present	Acceptable Limit of IS 10500: 2012
5.	Conductivity	μS/cm	IS 3025 (Part 14):1984	111	412	
6.	Total Dissolved Solids	mg/L	IS 3025 (Part 16): 1984	72	266	500 (Max)
7.	Total Hardness as CaCO ₃	mg/L	IS 3025 (Part 21): 2009	34.0	100	200 (Max)
8.	Calcium as	mg/L	IS 3025 (Part 40): 1991	11.2	20.0	75 (Max)
9.	Magnesium as Mg	mg/L	IS 3025 (Part 46): 1994	1.46	12.2	30 (Max)
10.	Chloride as	mg/L	IS 3025 (Part 32): 1988	17.8	97.8	250 (Max)
11.	Total Alkalinity as CaCO ₃	mg/L	IS 3025 (Part 23): 1986	12.1	95.5	200 (Max)
12.	Iron as Fe	mg/L	IS 3025 (Part 53): 2003	0.26	0.38	1 (Max)
13.	Sulphate as SO ₄	mg/L	IS 3025 (Part 24): 1986	2.96	<1.00	200 (Max)
			Biologic	al Parameters		
14.	Total Coliform Bacteria		IS 15185:2016	Absent/ 100 ml	Absent/ 100 ml	Absent/ 100 ml
15.	E. coli			Absent/ 100 ml	Absent/ 100 ml	

All the tested parameters were within the acceptable limit as per IS 10500: 2012.

4.6 Wastewater Quality Monitoring

Recycling of waste water for gardening and other purposes requires the monitoring of quality of effluent discharged from the treatment plant. This includes tests for Biochemical Oxygen Demand (BOD), Total Suspended Solids (TSS), Chemical Oxygen Demand (COD), Oil & Grease etc. For that, wastewater samples were collected from STP inlet as well as outlet at the project site. The Wastewater quality monitoring methods, results as well as the *General Standards For Discharge Of Environmental Pollutants Part-A: Effluents specified by Central Pollution Control Board (CPCB) as per 'The Environment (Protection) Rules, 1986'* are given in Table 4.7.

Table 4.7: Wastewater Quality Monitoring Results

S. No.	Parameters	Unit	Methods	_	oct 2020 - 2021	Pre	sent	CPCB Standard
140.				Inlet	Outlet	Inlet	Outlet	Stanuaru
1.	pH at 25° C		IS 3025 (Part 11): 1983	3.88	7.24	6.12	7.32	5.5 - 9.0
2.	TSS	mg/L	IS 3025 (Part 17): 1984	22	16.0	145	18.0	100 (Max)
3.	BOD (3 days at 27° C)	mg/L	IS 3025 (Part 44): 1993	37	18.0	220	15.0	30 (Max)
4.	COD	mg/L	IS 3025 (Part 58): 2006	170	68.7	710	48.0	250 (Max)
5.	Oil & Grease	mg/L	IS 3025 (Part 39): 1991	< 1.00	<1.00	18.0	<1.00	10 (Max)

From the above table, it can be concluded that, all the tested parameters confirm to the *General Standards* For Discharge Of Environmental Pollutants Part-A: Effluents specified by Central Pollution Control Board (CPCB) as per 'The Environment (Protection) Rules, 1986'.

Chapter 5 Summary & Conclusion

Carnoustie Beach Resort located at Chennaveli, Chethi P.O., Mararikulam North, Cherthala Taluk, Alappuzha District, was accorded CRZ Clearance from MoEF&CC after the recommendation from KCZMA vide Application No. carnoustie/MBR/CRZ/2-10, File No: 11-114/2010-lA-III dated on 19.05.2011. The summary of the half yearly compliance report for the project during the period October 2022 to March 2023 are as follows:

- The proponent is fully conscious about environmental management for the project and ensures all the measures to safeguard the compliance of specific and general conditions stipulated in CRZ Clearance.
- Environmental monitoring was carried out during April 2023 for ambient air quality, noise level, groundwater quality, waste water quality and soil quality. It's observed from the monitoring results that all the Environmental parameters are within the permissible standards. No major incremental load was observed to be caused by the operation activities on the baseline characteristics of the environment.

List of Annexures

Annexure: 1 CRZ Clearance

Annexure: 2 Recommendation from KCZMA

Annexure: 3 Building Permit

Annexure: 4 Consent from Kerala State Pollution Control Board (KSPCB)

a) Consent to Establish from KSPCB

b) Consent to Operate from KSPCB

Annexure: 5 Approval from Groundwater Authority

Annexure: 6 CRZ Map (1:4000 scale)

Annexure: 7 Fire & Safety NOC from Cherthala Fire & Rescue Station

Annexure: 8 Environmental Monitoring Reports

a) Ambient air quality monitoring report

b) Ambient noise level monitoring report

c) Soil quality monitoring report

d) Groundwater quality monitoring report

e) Waste water quality monitoring report

Annexure: 9 Photographs of Project Site

F.No. 11-114/2010-IA-III Government of India Ministry of Environment & Forests (IA Division)

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

Dated: 19th May, 2011

To M/s. Carnoustie Resorts Pvt. Ltd., Corporate Office A-150, Sector 43, Noida-201301.

Subject: CRZ clearance for Carnoustie Beach Resort at Sy. No. 11,12, 13,14,15,16,17,18,19 and 26, Mararikkulam North, Taluk Cherthala Alappuzha, Kerala by M/s Carnoustie Resort Pvt. Ltd -Reg

reference has to your application carnoustie/MBR/CRZ/2-10 dated 30.09.2010 and subsequent letters dated11.01.2011 seeking prior CRZ Clearance for the above project under the Coastal Regulation Zone (CRZ) Notification, 1991. The proposal has been appraised as per prescribed procedure in the light of provisions under the Coastal Regulation Zone Notification, 1991/2011 on the basis of the mandatory documents enclosed with the application viz., the Questionnaire, recommendations of State Coastal Zone Management Authority and the additional clarifications furnished in response to the observations of the Expert Appraisal Committee constituted by the competent authority in its meetings held on 30th November, 1st & 2nd December, 2010 and 14th - 15th February, 2011.

2. It is interalia, noted that the proposal involves construction of a beach resort in Chennaveli, Chethi P.O, Pin - 688553, Mararikulam North, Alappuzha District, Kerala State. The total area of the plot is 7.0309 ha. The land is a coastal plane with sandy soil at an average elevation of +1.2m MSL. Total built-up area of buildings is 4,647.06 m² located between 200 and 500m from HT; number of cottages 40, ECU provided 43, restaurant/bar seats 100. Total water requirement 26.9 KLD (fresh water requirement - 17.5 KLD). The capacity of STP proposed is 26 KLD. Treated waste water to be used for flushing - 7.20 KLD, horticulture - 12.361 KLD. The land is in mixed use with residential units and coconut plantation. Length of the coastline is 240.1m. The site is accessible from Alappuzha - Arthunkal Coastal Road with a present by the width of 7.7m, which is being widened as a State Highway. Power wards requirement is 400 kVA which will be taken from State Electricity Boards Solid waste generated during operational phase 63.6 Biodegradable waste will be converted to biogas in a biodigester. project proposes to harvest rain water in tanks and pools of 270 mg

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R. No.: 2320
NOIDA G. B. Nagar

holding capacity and to recharge overflow to sandy soil to form Ghyben-Herzberg fresh water lens. The project incorporates a Disaster Management Plan, Environment Management Plan, Environmental Monitoring Plan, greenbelt and landscape with indigenous plans. Part of energy requirements will be met with solar energy. The total cost of the project is Rs. 26.92 Crores.

- The project site falls between 200m-500m of High Tide line of CRZ III area. The Kerala Coastal Zone Management Authority has recommended the project vide letter no. 302/A2/10/KCZMA dated 4.09.2010
- 4. The Expert Appraisal Committee, after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations, have recommended for the grant of CRZ Clearance for the project. Accordingly, the Ministry hereby accord necessary CRZ Clearance for the above project as per the provisions of Coastal Regulation Zone Notification, 2011, subject to strict compliance of the terms and conditions as follows:

5. SPECIFIC CONDITIONS:

- i) "Consent for Establishment" shall be obtained from State
 Pollution Control Board under Air and Water Act and a copy
 shall be submitted to the Ministry before start of any
 construction work at the site.
- ii) There shall be no fencing/ construction within 200 m from HTL, not even the temporary boundary wall.
- iii) There shall be no ground water drawal within CRZ area. The details submitted.

A revised map showing the coordinates of HTL, 200m line, 500m boundary at discrete intervals 25m/50m etc as appropriate shall be submitted to the Ministry within 3 months, in place of mere lines shown in the map prepared by NIO (or any authorized agency) so as to enable verification of installations and compliance thereof on the ground later when the work is in progress.

Sewage shall be treated and the Treatment Facility shall be provided in accordance with the Coastal Regulation Zone Notification, 2011. The disposal of treated water shall confirm the regulation of State Pollution Control Board.

vi) Solid waste Management shall be as per Municipal Solid (Management and Handling) Rules, 2000.

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- vii) Public access to the beach shall be provided.
- viii) No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
- ix) The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive
- The funds earmarked for environment management plan shall X) be included in the budget and this shall not be diverted for any other purposes.

GENERAL CONDITIONS:

- (i) Full support shall be extended to the officers of this Ministry/Regional Office at Bangaluru by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.
- (ii) A six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Militaria 1146 A 20 Mills Bangaluru regarding the implementation of the stipulated conditions.
 - Ministry of Environment & Forests or any other competent (iii) authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.
 - The Ministry reserves the right to revoke this clearance if any of (iv) the conditions stipulated are not complied with the satisfaction of the Ministry.
 - In the event of a change in project profile or change in the (v) implementation agency, a fresh reference shall be made to the Ministry of Environment and Forests.

The project proponents shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.

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(vii) A copy of the clearance letter shall be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/ representation has been made received while processing the proposal.

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- (viii) Kerala Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Genter and Collector's Office/Tehsildar's office for 30 days.
- 7. These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter.
 - All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.
 - The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the of Environment and Forests website Ministry http://www.envfor.nic.in. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bangaluru.
 - Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.
 - 11. Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.
 - A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.

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- The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
- The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC 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 the SPCB
- The environmental statement for each financial year ending 31st 15. 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 EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.

(Bharat Bhushan) Director (IA-III) 9.05.2011

Copy to:

1. The Secretary, Department of Environment & Forests, Government of Kerala, Kerala State Coastal Zone Management Authority, Sasthra Bhawan, Pattom, Thiruvanathapuram - 4.

2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-

cum- Office Complex, East Arjun Nagar, Delhi - 110 032.

3. The Chairman, Kerala Coastal Zone Management Authority, Science & Bhavan, Pattom, Sashtra Department, Technology (A) Thiruvananthapuram.

4. The Chief Conservator of Forests, Ministry of Environment and Forests, Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No. 3, Ravishankar Nagar, Bangalore - 462016 Karnataka.

5. The Chairman, Kerala State Pollution Control Board, Plamoodu Junction, Pattom Palace, Trivandrum 695004, Kerala

> 8 No. 2320 White G. H. Waller

Director (EI), Ministry of Environment and Forests. PUE

7. Guard File.

(Bharat Bhushan) Director (IA-III)

KERALA COASTAL ZONE MANAGEMENT AUTHORITY

Directorate of Environment & Climate Change 4th Floor, KSRTC Bus Terminal, Thampanoor, Thiruvananthapuram - 01

Dated: 27.07.2022

Ph. 0471-2339696, E-mail: kczmasandtd@gmail.com

No: 2166/A1/2019/KCZMA

From

The Member Secretary Kerala Coastal Zone Management Authority

To

The Director Ministry of Environment Forest and Climate Change Govt. of India J-615, Jal Block Indira Pariyavaran Bhavan New Delhi - 110003

Sir,

Sub :- KCZMA - Additional construction of the resort building and regularization of the Expanded Existing Resort building by M/s Carnoustie Resorts Privates Limited, 326, Master Mins-1, Royal Palm Arey Colony, Goregaon (East), Mumbai, Maharashtra - Reg.

Ref: - 1. Lr. No. A4-5054/2019 dated 25.03.2019 from the Secretary, Mararikulam North Panchayat.

 Decision no. 123.07.02 of 123rd meeting of KCZMA held on 29.06.2022 (Copy enclosed)

Kind attention is invited to the reference cited. Vide clearance No.11-144/2010/IA-III dated 19.05.2011 MoEF&CC has granted CRZ Clearance to M/s Carnoustie Resorts Privates Limited for a total build up area of 4647.06 sqm. Now vide reference cited above M/s Carnoustie Resorts Privates Limited has submitted application for CRZ clearance for the expansion of existing resort building having plinth area of 7532.41 sqm and also for partially constructed building having plinth area 2247.6 sqm (Total Plinth area 7532.41 sqm + 2247.6 sqm = 9780.01 sqm). The proposed area of construction falls between 200m and 500m from the HTL of the sea.

KCZMA in its 123rd meeting discussed the proposal and decided to recommend and forward to MoEF&CC for getting CRZ clearance for the additional construction of the resort building and regularization of the Expanded Existing Resort building of M/s Carnoustie Resorts Privates Limited, 326, Master Mins-1, Royal Palm Arey Colony, Goregaon (East), Mumbai, Maharashtra.

In the above circumstance, the proposal is recommended and forwarded for further necessary action. The decision taken by your office on the proposal may be intimated to KCZMA at the earliest.

Yours faithfully

SUNEEL PAMIDY IFS Member Secretary, KCZMA

Copy to:

M/s Carnoustie Resorts Pvt. Ltd. Goregaon (East) Mumbai, Maharashtra 11

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(Seal) APPENDIX C [See Rule 11(3)]

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APPENDIX C [Sec Rule11(3)]

BUILDING PERMIT

No. BP-856/2009-10		Dated. 28/9/12
1/2 / / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2	nitri 12.2.2012 / (.)	P. TVM
got: Application dated	Irom Siri Syn	jesh Chancirculand Rejact. Chethy P.O on I demolition of building I hut I diggi
en through	(specify the construction) in	building ivo
i i dia a Ne	in Surevey N	0
Mara ilandam No	Taluk Cheliman	K
	1 22 510 5.0	(Specify the second
	11. 01 1/1 - 1713	, , ,
ubject to the conditions stated below	18-1 18/8-2 18/9, 17	11, 17/2, 17/4-1, 17/6, 26/11
	(1) 19/9 (1/1 (1 1 1 -)	, , ,
16/1-3, 16/1-4, 1613, 4	12/2/12/12/19/3 19/3	19, 19/2, 19/2, 12/9, 19/1-4
2) 26/9, 11/1-5, 19/10, 131	1, 13/7, 13/3, 1110,	10/5 12/6 13/10.13/8 12/1
10/6 10/6	5 / 4/0 / 4/10	110,00
13) 12/2 20/6 28/1 1	4/2, 14/3-2 0 190	cianacians record
The Mc Lichilly of Pe	allowed in the cap	112 (2012).
MA Chenice Will DE	c coccoon	e ito ler inspection .
The persont must	be lept in the work	rvation of pooledy lard
KMBR - 1999, KPB.	Rules Dows ICPR ACT	reation of pooledy land 200 (6) and C.R.Z. Should
Plinth area of the building is as foll	ows.	
Basement	Grount Floor	First Floor
Phinth acrea new - 4647.06 m		
		bon
Place: 8. L. Puram Date: 28/9/12 (Seal)		Signature and name of Secretary

Notes:- 1. The development permit or building permit, unless otherwise provided under these rules, st valid for three years from the date of issue and may be renewed twice each for three years.

² The application for renewal shall be submitted to the Secretary in white paper, typed or writink, affixed with necessary court fee stamp and accompanied by copy of permit and approved in the formal shall be fifty percent of the prevailing permit fee.

Appendix-C (See Rule 11(3))

BUILDING PERMIT

Mararikulam North Grama Panchayath

No.A4-3083/KPBR/2016/17

Date:21-11-2016

Ref: Application dated 15/06/2016 Randeep Waraich, Managing Director,

Carnoustie Resort Pvt Ltd, Chethy.P.O, Chennavely

Permission is Granted for the erection/reerection/addition/alteration of building New construction (Specify construction) in building No... or near the building No.... in Survey no. 14/3-1 Village

Mararikulam North Thaluk Cherthala District Alappuzha for COTTAGE purpose subject to the conditions stated below.

- 1. Permit is Granted for a period of 3 years from 28-09-2015 to 27-09-2018
- Proposed Construction Should be in accordance with various provisions of KPBR-2011, KPR Act&CRZ Notifications
- 3. A copy of the plan should be kept at the worksite for inspection
- 4. No alteration of the plan is allowed
- 5. The permit Issued only For constructing cottage As per CRZ clearance F.No. 11-114/2010-LA-111 Government of India Resy 15/1-1, 15/1-2, 15/4, 18/1, 18/2-1,18/2-2, 18/3, 18/8-1, 18/8-2, 18/9, 17/1, 17/2, 17/4-1 17/6, 26/11, 16/1-2, 16/1-3, 16/1-4, 16/5, 28/2, 15/3, 11/1-4, 19/6, 12/3, 11/4, 11/5, 12/7, 18/5, 12/8, 26/9, 11/1-5, 19/10, 13/1, 13/7, 13/5, 19/3, 19/9, 19/7, 19/2, 12/9, 19/1-4, 12/10-2, 12/10-1, 13/9, 19/8, 12/5, 12/6, 12/11, 19/4, 19/5, 13/6, 13/10, 13/8, 12/13, 14/4, 13/2, 28/6, 28/1, 14/2, 14/3.2, of Mararikulam North Village

Plinta Area Details

Ground Floor First Floor Total
4047.06 M. Squire 4647.06 M. Squire

Place: S L Puram

Signature and name Secretary

Date: 21-11-2016

(Seal)

(D) (

K. S. SONY

Secretary

Marachilation North Penns Prophayas

NEL 1000-2802329 / 949604363*

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FILE NO. - PCB/ALP/UCE-160/09

Date of issue: 19.06.09



KERALA STATE POLLUTION CONTROL BOARD

CONSENT TO ESTABLISH

ISSUED UNDER

Section 25 of Water (Prevention & Control of Pollution) Act, 1974, Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and The Environment(Protection) Act 86

TO



Sri. RAJESH CHANDRAKANTH RAJADHYAKSHA M/s CARNOUSTIE RESORTS Pvt. Ltd. OPPOSITE St. ANTONY's CHURCH, CHENNAVELI, CHETHI P.O, ALAPPUZHA

Consent No. PCB/ALP/ICE-112/2009



Validity: 18.06.2012

1. GENERAL Consent No. PCB/ALP/ICE-112/09

Name and Address of the establishment	Sri. RAJESH CHANDRAKANTH RAJADHYAKSHA M/s CARNOUSTIE RESORTS Pvt. Ltd. OPPOSITE St. ANTONY'S CHURCH, CHENNAVELI, CHETHI P.O, ALAPPUZHA			
Communication	Telephone : 0484-6452040 Fax : e- mail :			
Occupier details	Sri. RAJESH CHANDRAKANTH RAJADHYAKSHA M/s CARNOUSTIE RESORTS Pvt. Ltd. OPPOSITE St. ANTONY'S CHURCH, CHENNAVELI, CHETHI P.O, ALAPPUZHA			
Sy No. 11/4, 5, 1-4, 12/3, 5, 6, 7, 13/1, 5, 6, 7, 9, 10				
Village	Mararikkulam North			
Taluk	Cherthala			
District	Alappuzha			
Panchayat	Mararikkulam			
Category	ORANGE			
Scale	Medium			
Fee remitted	Rs.105000/- (Rs. 35,000/- per year)			
Capital Investment	Rs. 988 lakhs			
Water consumption	48400 litres/day			
PRODUCTS	Hotel &Resorts			
	Communication Occupier details Survey Number Village Taluk District Panchayat Category Scale Fee remitted Capital Investment Water consumption			

2. GENERAL CONDITIONS

- 2.1. This consent is granted subject to the power of the Board to review and make variation in all or any of the conditions as per the section 27 of the Water Act 74 and section 21(6) of the Air Act 81.
- 2.2. This consent, unless withdrawn earlier and subject to Condition No. 2.1, shall be valid for three years from the date of issue. At the end of the validity period if the construction is in progress, the same shall be got renewed. If the construction is not started in the consent period, the applicant shall apply afresh for consent to establish.
- 2.3. The applicant shall comply with the instructions that the Board may issue from time to time regarding prevention and control of air, water, land and sound pollution.
- 2.4. The date of commissioning shall be intimated, at least one month in advance, to the Head Office / Regional Office/ District Office of the Board.
- 2.5. Consent to Operate shall be obtained before commissioning the industry under the Water (Prevention and Control of Pollution) Act, the Air (Prevention and Control of Pollution) Act and the relevant Rules under Environment (Protection) Act.
- 2.6. A minimum set back as per Kerala Municipality Building Rules shall be provided between the boundary and the building. The set back can be utilised for the development of green belt.
- 2.7. Effluent treatment plant shall be set up beyond 17 m from the nearest external residence/education/court/public office/hospital/place of worship/community hall/similar establishments (excluding industries). The 2 x 320 + 1 x 100 KVA D.G. Sets shall be place at a minimum distance of 19.25 m from the nearest external residence.
- Water meter shall be fixed to record consumption of water.

3. CONDITIONS AS PER WATER (PREVENTION & CONTROL OF POLLUTION) ACT 1974

- 3.1. a) The proposal for effluent treatment plant shall be modified to satisfy the following.
 - i) Septic tank shall be of IS 2470 (Part 1): 1985 desing.
 - ii) The depth of the anaerobic filter shall be increased from 1.5 to 3.0 m.
 - iii) Settling tank after upflow anaerobic filter is not essential.
 - iv) Root zone treatment system, being not suitable in tropical climate due to vector, rodent and birds nuisance, shall be replaced by diffused aeration tank of not more than 2 m depth.

- v) Settling tank of not less than 6 m² surface area shall be introduced after aeration tank.
- vi) Earthen pond for collection of treated sewage is to be replaced by impervious tank.
- vii) The screenings from the screens and skimmings from oil trap shall be disposed along with excess sludge from aeration tank and biodegradable garbage in biogas plant.
- viii) The slurry from the biogas plant shall be fed into the septic tank.
- ix) Inbuilt facilities shall be provided for reuse of treated effluent for flushing, gardening, vehicles wash etc. Adequate land shall be set apart for irrigation. Water meter shall be provided for measuring the quantity of treated water recycled.
- b) Effluent treatment plant consisting of the following treatment units shall be constructed and made functional before commissioning.

1. Sewage

1	Septic tank (as per IS: 2470	2	Upflow anaerobic filter
	(Part – I) 1985)		
3	Aeration tank	4	Settling tank
5	Pressure sand filter	6	UV Disinfection
7	Activated carbon filter	8	Treated sewage tank
9	Soak pit	10	Biogas Plant

1. Sullage

1	Bar screen chamber	2	Grit & Oil trap
3	Equalization tank	4	Chemical mixing tank
4	Settling tank		

c) The following effluent standards shall be achieved.

PH - 6.5 - 8.5

Suspended solids - 20 mg/l max

B.O.D(27 °C, 3 day) - 3 mg/l max

Oil&Grease - 1 mg/l max

- 3.2. The treated effluent in surplus, if any, shall be disposed in soak pit. The soak pit shall have concreted bottom, honey comb brick or perforated ring side wall and 75 cm thick 2 mm sand envelope around. Manhole shall be provided prior to soak pit to facilitate effluent sampling.
- 3.3. There shall be easy access to each and every effluent treatment unit for inspection and drawing of effluent samples.
- 3.4. Energy metre shall be installed exclusively for the effluent treatment and treated effluent reuse system and shall be maintained properly.
- 3.5. Arrangements shall be provided for rain water harvesting and for utilization of harvested rain water. The rain water harvest tank shall be at least 20 m away from the soak pit.
- 3.6. Natural drainage of the area shall be protected.

4. CONDITIONS AS PER

AIR (PREVENTION & CONTROL OF POLLUTION) ACT 1981

- 4.1. The minimum height of the combined chimney for the DG sets shall be 5.5 m above roof level of the highest nearby building.
- 4.2. The minimum chimney height of boiler installed if any shall be 15 m from the ground level.
- 4.3. The minimum height of chimney provided to kitchen shall be 15 m from the ground level.
- 4.4. If operations are planned to be done with backup power, the generator shall have adequate capacity to run all the associated pollution control devices.
 - 4.5. During the construction phase, the building materials shall be transported with proper cover or after wetting the prevent spreading of dust during transportation. Water sprinkling shall also be arranged to suppress spreading of dust outside the premises.
 - Suspended particulate matter at the boundary of the project area shall not exceed 200 microgram per cubic metre.
 - 4.6. The ambient sound level in the project area due to vehicles movement shall be minimized by proper maintenance and planning. Noise generated by diesel generator set shall be minimized by provided acoustic enclosure and vibration minimising system.
 - The sound level measured at 1 m outside the boundary of the premises shall not exceed the ambient sound level standard applicable for the adjoining area.

ADDITIONAL CONDITIONS

- 5.1. Necessary arrangements for collection, segregation, storage, treatment and disposal of solid waste including garbage shall be provided before commissioning. The construction debris, mud discharge etc from the construction site shall be disposed safely and the details of disposal of the same shall be intimated to the Board's office in advance.
- 5.2. Proper precautionary measures shall be provided during construction phase to minimize disturbance due to excavation, pilling, transportation of materials etc.
- 5.3. The location of the resort building shall, subject to the conditions stated herein, be as shown in the drawing attached. No change or alteration to the above shall be made without prior clearance from this office. Effluent treatment plant, rain water harvest tank and the DG set shall be placed as specified in conditions 2.7 & 3.5.



DATE. 19.06.09.

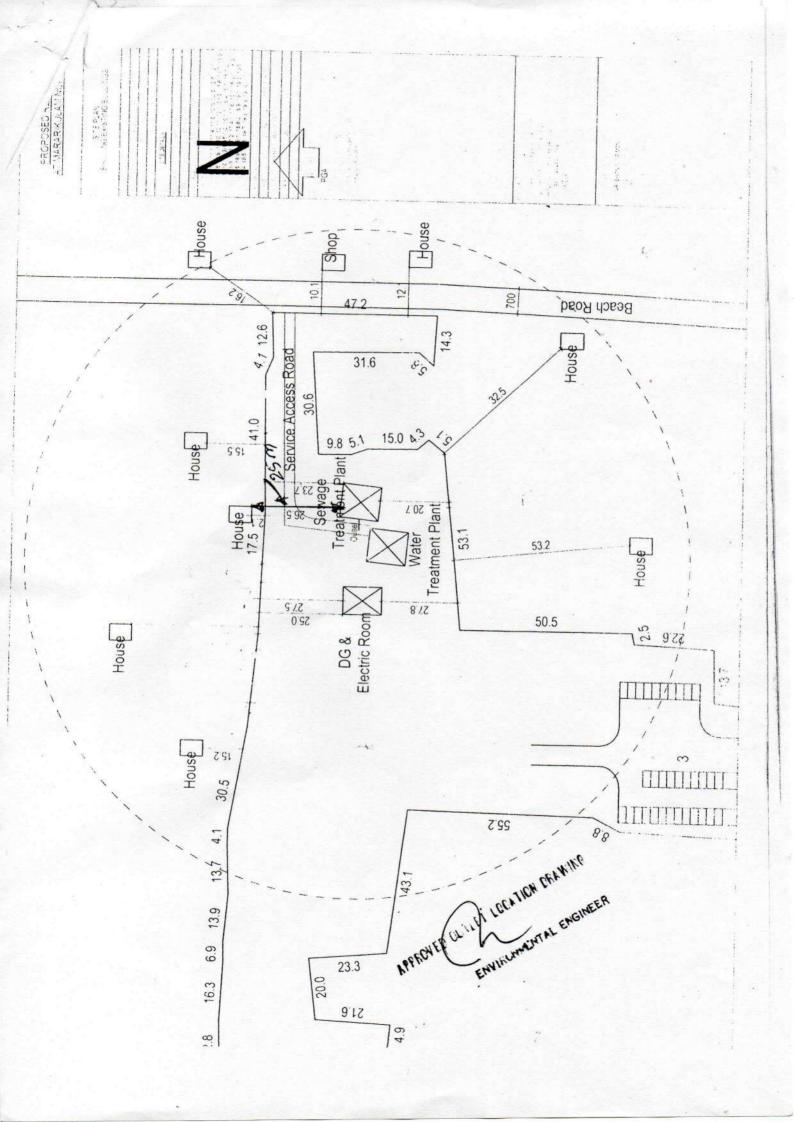
OFFICE SEAL

SIGNATURE & SEAL OF ISSUING AUTHORITY

ENVIRONMENTAL ENGINEER Kerala State Polition Control Board DISTRICT OFFICE, ALAPPUZHA-1

Copy to: 1. The Member Secretary, Kerala State Pollution Control Board, Thiruvananthapuram

- 2. The Chief Environmental Engineer, KSPCB, Regional Office, Ernakulam.
- 3. Stock File.



ANNEXURE IV - CONSENT TO OPERATE



KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/RO/ALPA/ICO/712/2012

Date of issue :03/05/2019

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No: PCB/RO/ALPA/ICO-R/03/2019

Ref: CONSENT NO: PCB/HO/ALP/ICO-R/03/2016 ISSUED ON 03.02.2016 VALID UPTO 30.04.2018

The 'Integrated Consent to Operate' issued as per reference above to M/s CARNOUSTIE RESORTS PVT LTD, CHENNAVELI, CHETHI P O, ALAPPUZHA is hereby renewed up to 30/04/2023 and issued to M/s CARNOUSTIE RESORTS PVT LTD, CHENNAVELI, CHETHI P O, CHERTHALA, ALAPPUZHA The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

I. GENERAL

S.No.	Items	Description
1	ANNUAL FEE	Rs.89000/-
2	CATEGORY	ORANGE
3	REMITTED FEE	Rs.459500/-
4	VALIDITY	30.4.2023
5	CAPITAL INVESTMENT	1749 LAKHS

II. Stack Details

Stack No.	Source of	Emission	Stack Hei	ght above	Control
	Emission	Rate(Nm3/Hr)	Ground Level(In Meters)	Roof Level(In Meters)	Equipment

III. CONDITIONS

1. For renewal of the consent in case of continuance of operation of the establishment, application in the prescribed form shall be submitted through the web portal of the Board http:// krocmms. nic.in for renewing the Consent on or before three months in advance to expiry date.

All other conditions of the Integrated Consent to Operate issued as per reference above remain unchanged.

DATE:03/05/2019

SIGNATURE & SEAL OF ISSUING AUTHORITY CHIEF ENVIRONMENTAL ENGINEER.



To MANAGING DIRECTOR , CARNOUSTIE RESORTS PVT LTD, CHETHI P O, CHERTHALA-688530 ALAPPUZHA

- 1. This digitally signed document is legally valid as per the Information Technology Act 2000
- 2. For verifying this document please go to krocmms.nic.in and search using date of issue/name of the unit/Application Number in "Consent Granted Applications" link in the home page of the Board's Online Consent Management and Monitoring System.

5/10/23, 1:13 PM

SPCB Industry Home



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dick here for any kind complaints or qu	iery 🖸

In-progress	s Application	Completed /	Application				
Application No	Submission Date	Application Type	Certificate For	Status	Scrutiny Status By KSPCB	Scrutiny Completion Date By KSPCB	Keeping With
2052318	09-11-2015 02:36	ICO	Renew	Granted	Complete View Receipt	Contract Con	EE
6895760	16-11-2018	ico	Renew	Granted	In-Process	19 01 2010 03.12	-
18406917	29-04-2023 12:26	ICO	Renew	In- Progress	In-Process		Record Room

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Combat Connect Undered and Maintained by Korala State Polisher Control Servet

നമ്പർ എ4. 4954/2017

ഫോൺ 0478- 2862329

മാരാരിക്കുളം വടക്ക് ഗ്രാമപഞ്ചായത്ത്

എസ്.എൽ.പുരം.പി.ഒ, ആലപ്പുഴജില്ല.പിൻ-688523 e mail:maraarikkulamnorthgp@gmail.com

തീയതി : 16.01.2018

നിരാക്ഷേപ സാക്ഷ്യപത്രം

മാരാരിയ്ക്കുളം വടക്ക് ഗ്രാമപ്പഞ്ചായത്ത് 1ാം വാര്ഡിൽ സർവ്വെ നമ്പർ 49/13ൽ പെട്ട വസ്തുവിൽ ട്യൂബ് വെൽ നിർമ്മിയ്ക്കുന്നതിന് കാർണോസ്റ്റി റിസോർട്ട് പ്രൈവറ്റ് ലിമിറ്റഡ് സമർപ്പിച്ച അപേക്ഷ പ്രകാരം അസി. എൻജിനീയർ, എൽ.എസ്.ജി.ഡി യുടെ റിപ്പോർട്ടിന്റെയും ഭൂജല വകുപ്പിന്റെ നിരാക്ഷേപ സാക്ഷ്യപത്രത്തിന്റെയും അടിസ്ഥാനത്തിൽ ഭൂജല വകുപ്പിന്റെ നിരാക്ഷേപ സാക്ഷ്യപത്രത്തിൽ രേഖപ്പെടുത്തിയിരിയ്ക്കുന്ന സ്ഥലത്ത് 130 മീറ്റർ ആഴത്തിലും 150 മീറ്റർ വ്യാസത്തിലും ട്യൂബ് വെൽ നിർമ്മിയ്ക്കുന്നതിന് എതിർപ്പുകളൊന്നുമില്ലെന്ന വിവരം സാക്ഷ്യപ്പെടുത്തുന്നു.



M.F. VARKEY B.Y. LLB
ADVOCATE & NOTARY
CHERTHALA
Enrolment Number Ki285/1979

19.2 2019

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നിരാക്ഷേപപത്രം

നമ്പർ.ജി.ഡബ്ളിയു.എ/180/2017

ജില്ലാ ആഫീസറുടെ കാര്വാലയം, ഭൂജല വകുപ്പ്, പഴവീട് പി.ഒ ആലപ്പുഴ. പിൻകോഡ് - 688 009 ഫോൺ നമ്പർ 0477-2266688 E-mail: gwdalp@gmail.com തീയതി. 20/10/2017

പ്രേഷകൻ

ജില്ലാ ആഫീസർ

സ്വീകർത്താവ്

സെക്രട്ടറി

മാരാരിക്കുളം വടക്ക് ഗ്രാമ പഞ്ചായത്ത്

വിഷയം:- ഭൂജല വകുപ്പ്, ആലപ്പുഴ - വ്യാവസായിക ആവശ്യത്തിനുള്ള ട്യൂബ് വെൽ നിർമ്മാണം -പഞ്ചായത്തിൽ നിന്നും നിരാക്ഷേപ പത്രം ലഭ്യമാക്കുന്നത് - സംബന്ധിച്ച്. സൂചന:- 1.താങ്കളുടെ 25/01/2017 ലെ അപേക്ഷ.

പ്രദേശത്തെ പാരിസ്ഥിതിക വ്യവസ്ഥിതിയും ഭൂജല സ്ഥരങ്ങളും ബന്ധിത ഭൂജല സ്ഥരത്തിന്റെ പ്രതീക്ഷിത ആഴവും ഘനവും ഭൂജല ലഭ്യതയും ഭൂജല സ്തരങ്ങൾ തമ്മിലുള്ള ബന്ധവും പ്രത്യേകതകളും എന്നിവയെക്കുറിച്ചുള്ള ശാസ്ത്രീയ പഠനം നടത്തുകയും അതിൻ പ്രകാരം താഴെ പറഞ്ഞിരിക്കുന്ന ശാസ്ത്രീയ നിബന്ധനകളും നിർദേശങ്ങളും അനുസരിച്ച് ഒരു ട്യൂബ് വെൽ നിർമ്മിക്കുമ്പോൾ നിലനിൽക്കുന്ന മറ്റ് ജലസ്രോതസ്സുകളിൽ യാതൊരു വ്യതിയാനവും ഉണ്ടാകുവാനുള്ള സാധ്യതയും ഇല്ല എന്ന് ഇതിനാൽ അറിയിച്ചുകൊള്ളുന്നു.ഭൂജല ഉപഭോഗവും വില്പനയും മറ്റ് നിബന്ധനകളും പമ്പിംഗ് ടെസ്റ്റിന് ശേഷം ഭൂജല അതോറിറ്റി മുഖേന മാത്രമേ നൽകുകയുള്ളൂ.

കിണറിന്റെ സ്ഥാനം

:റിസോർട്ട് സ്ഥിതി ചെയ്യുന്ന വസ്തുവിന്റെ വടക്ക് പടിഞ്ഞാറ് മൂലയിൽ നിന്നും ഏകദേശം 60മീറ്റർ കിഴക്ക് മാറി.

സർവെ നമ്പർ കിണറിന്റെ ആഴം കിണറിന്റെ വ്യാസം

:49/13 :130 മീറ്റർ :1502].2].



ATTESTED

F. VARKEY B.A., LLB ADVOCATE & NOTARY CHERTHALA rolment Number K/285/1979

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നിബന്ധനകളും നിർദേശങ്ങളും

- ടി നിരാക്ഷേപ പത്രം മേൽ പറഞ്ഞിരിക്കുന്ന സ്ഥലത്ത് മാത്രം ഒരു ട്യൂബ് വെൽ നിർമ്മിക്കുന്നതിനു വേണ്ടി പഞ്ചായത്തിൽ നിന്നും അനുമതി ലഭിക്കുന്നതിന് മാത്രം നൽകുന്നതാകുന്നു.
- ❖ സുരക്ഷിതവും ശാസ്ത്രീയവുമായ വെൽ അസംബ്ലിയുടെ പായ്ക്കിംഗിനായി 150മി.മി. ട്രൂബ് വെല്ലിൽ കുറഞ്ഞത് 300മി.മി വ്യാസമുള്ള ബോറെങ്കിലും നിർമ്മിക്കേണ്ടതാണ്
- 💠 ഉപരിതലത്തിൽ നിന്നും 60 മീറ്റർ വരെയെങ്കിലും കളിമണ്ണുകൊണ്ട് ബോർ സീൽ ചെയ്യേണ്ടതാണ്
- ❖ ഇറക്കേണ്ട പമ്പിൻെറ കുതിരശക്തിയും എടുക്കേണ്ട ജലത്തിന്റെ തോതും പമ്പിംഗ് ടെസ്റ്റിന് ശേഷം മാത്രമേ നിർദേശിക്കുവാൻ സാധിക്കുകയുള്ളൂ.
- ❖ ട്യൂബ് വെൽ നിർമ്മാണത്തിന് ഉപയോഗിക്കുന്ന പൈപ്പ് ഐ എസ് ഐ മുദ്രയുള്ളതും കുറഞ്ഞത് 8മി.മി. കട്ടിയുള്ളതുമായ യുപിവിസി മാത്രമായിരിക്കണം
- ഗ്രാവലും കളിമണ്ണും ചെളിയുമല്ലാതെ മറ്റൊരു വസ്തുവും ഫിൽട്ടറേഷനോ സീലിംഗിനോ ഉപയോഗി ക്കുവാൻ പാടുള്ളതല്ല
- നോട്ടറി മെഷീനുകൾ മാത്രമേ ട്യൂബ് വെൽ നിർമ്മാണത്തിന് ഉപയോഗിക്കുവാൻ പാടുള്ളൂ
- മേൽ പറഞ്ഞ രീതിയിലല്ല കുഴൽ കിണറിന്റെ നിർമ്മാണമെങ്കിൽ അശാസ്ത്രീയമായി കണക്കാക്കു കയും ഭൂജല അതോറിറ്റി നിയമ പ്രകാരം എൻ.ഒ.സി. റദ്ദ് ചെയ്യുകയും അനന്തര നിയമ നടപടികൾ സ്വീകരിക്കുകയും ചെയ്യുന്നതാണ്
- ❖ ജി.ഒ 59/2014/ഡബ്ളിയു ആർ ഡി തിയതി 27/06/2014 പ്രകാരം ഡിപ്പാർട്ട്മെന്റിന്റെയോ ഡിപ്പാർട്ട്മെന്റ് രജിസ്ട്രേഷനോടു കൂടിയതോ ആയ റിഗ്ഗ് ഉപയോഗിച്ച് മാത്രമേ ട്യൂബ് വെൽ നിർമ്മാണം പാടുള്ളൂ അല്ലാത്ത പക്ഷം നിയമ നടപടികൾ സ്വീകരിക്കുന്നതാണ്
- ആഫിസിന്റെ സീലോടുകൂടിയ ചാർട്ടിൻ പ്രകാരം മാത്രമേ വെൽ അസംബ്ലി പാടുള്ളൂ.

ടി നിരാക്ഷേപ പത്രം ഗ്രാമപഞ്ചായത്തിൽ/മുനിസിപാലിറ്റിയിൽ നിന്നും ഭൂജല അതോറിറ്റിയുടെ അനുമതിയ്ക്ക് വേണ്ടിയുള്ള അനുമതി പത്രം ലഭ്യമാക്കുന്നതിനും ട്വൂബ് വെൽ നിർമ്മാണത്തിനും വേണ്ടി മാത്രമാകുന്നു.

ച്ചില്ലാ ആഫീസർ

പകർപ്പ്

ATTESTED

കാർനോസ്റ്റി റിസോർട്ട് പ്രൈവറ്റ് ലിമിറ്റഡ്



DISTRICT OFFICER GROUND WATER DEPT. PAZHAVEEDU P. O.

ATTESTED

M.F. VARKEY B.A. LLB
ADVOCATE & NOTARY
CHERTHALA
Enrolment Number K/285/1979

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ജിഡബ്ളിയു.എ/422/2012

ജില്ലാ ആഫീസറുടെ കാര്യാലയം, ഭൂജല വകുപ്പ്, പഴവീട് പി.ഒ, ആലപ്പുഴ – 9 തീയതി. 4..4..2012

പ്രേഷിതൻ

ജില്ലാ ആഫീസർ

സ്വീകർത്താവ് Paroject Manager, Carnoustie Resorts (P) Ltd, Chethy P.O, Cherthala.

സർ,

വിഷയം:- ഭൂജല വകുപ്പ്, ആലപ്പുഴ – ട്യൂബ് വെൽ നിർമ്മാണം – സർവെ റിപ്പോർട്ട് നൽകുന്നത് – സംബന്ധിച്ച്. സൂചന;– താങ്കളുടെ 16..3..2012– ലെ അപേക്ഷ

മേൽ സൂചന പ്രകാരമുള്ള അപേക്ഷയുടെ അടിസ്ഥാനത്തിൽ മാരാരിക്കുളം വടക്ക് ഗ്രാമ പഞ്ചായത്തിലെ 1-ാം വാർഡിൽ നിർമ്മാണം പുരോഗമിക്കുന്ന റിസോർട്ടിൻെറ കുടിവെള്ള ആവശ്യത്തിലേയ്ക്കായി ഈ ആഫീസിൽ നിന്നും നടത്തിയ ഹൈഡ്രോ ജിയോളജിക്കൽ സർവെയുടെ വെളിച്ചത്തിൽ ടി സ്ഥലം ട്യൂബ്വെൽ നിർമ്മിക്കുന്നതിന് അനുയോജ്യമാണെന്ന് അറിയിക്കുന്നു.

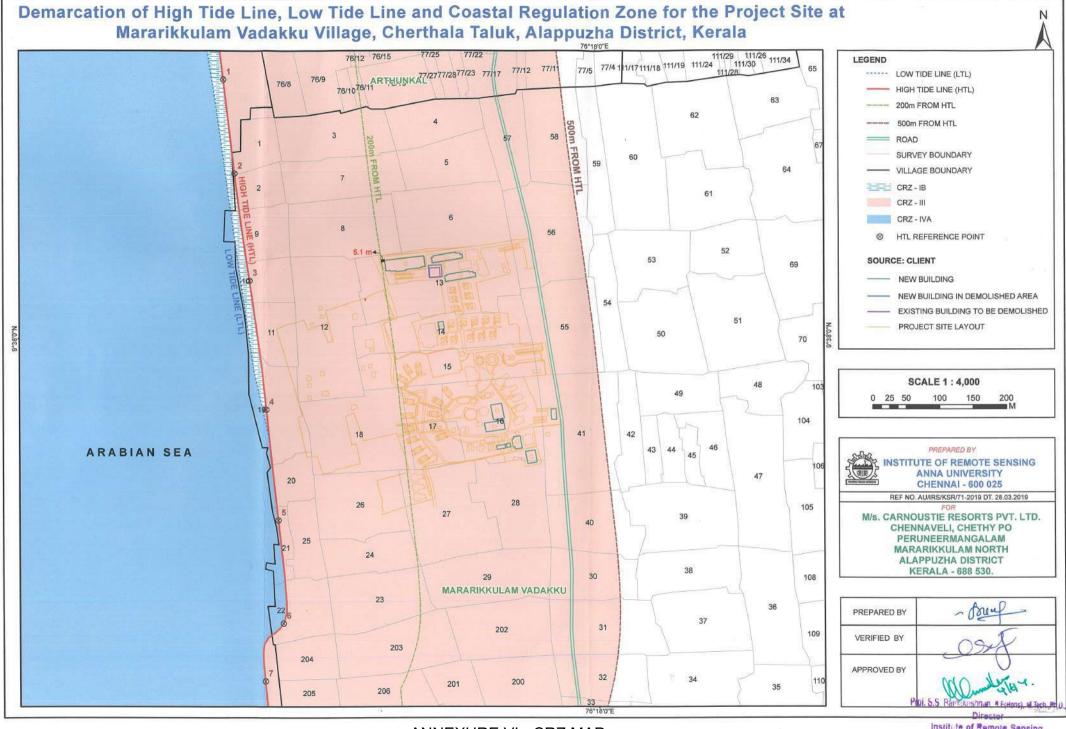
നിർമ്മിക്കുവാൻ ഉദ്ദേശിക്കുന്ന ട്യൂബ് വെല്ലിനുവേണ്ടി താഴെ പറയുന്ന സർവെ വിവരങ്ങൾ താങ്കളെ ധരിപ്പിച്ചുകൊള്ളുന്നു.

 കിണറിൻെറ സ്ഥാനം. : പമ്പിംങ് സ്റ്റേഷനുവേണ്ടിയുള്ള തുറന്ന പ്രദേശം.

2. കിണറിൻെറ ആഴം : 150 മീറ്റർ ശാസ്ത്രീയ പ0നത്തിൻെറ അടിസ്ഥാനത്തിലാണ് കുഴൽ കിണറിന് സ്ഥാന നിർണ്ണയം നടത്തിയിട്ടുള്ളതെങ്കിലും, കുഴൽ കിണർ പരാജയപ്പെടാനുള്ള സാദ്ധ്യത ഇല്ലാതില്ല._____

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നിർണ്ണയം നടത്തിയിട്ടുള്ളതെങ്കിലും ഇല്ലാതില്ല Page No Motarial Register



ANNEXURE VII - FIRE & SAFETY NOC



No.C-352 /2023

OFFICE OF THE STATION OFFICER, FIRE & RESCUE STATION, CHERTHALA Dated, 21-04-2023

NO OBJECTION CERTIFICATE (RENEWAL)

The Board headed by the Station Officer, Fire & Rescue Station, Cherthala has inspected the Two Blocks Two storied (G+1) 07.75 meters height Hotel Bulding in survey No. 14/3-1, 15/1-1, 15/1-2, 15/4, 18/1, 18/2-1, 18/2-2, 18/3, 18/8-1, 18/8-2,18/9, 17/1, 17/2, 17/4-1, 17/6, 26/11, 16/1-2, 16/1-3, 16/1-4, 16/5, 28/2, 15/3, 11/1-4, 19/6, 12/3, 11/4, 11/5, 12/7, 18/5, 12/8, 26/9, 11/1-5, 19/10, 13/1, 13/7, 13/5, 19/3, 19/9, 19/7, 19/2, 12/9, 19/1-4, 12/10-2, 12/10-1, 13/9, 19/8, 12/5, 12/6, 12/11, 19/4, 19/5, 13/6, 13/10, 13/8, 12/13, 14/4, 13/2, 28/6, 28/1, 14/2, 14/3-2 Mararikulam North Villagae, in Alappuzha District under Mararikulam North Grama Panchayath owned by M/S Carnousite Resorts Pvt. Ltd, 326, Master Mind 1, Royal Palm, Aarey Colony, Geregaon (E), Mumbai on on 21.04.23 as per NBC and recommended to renew No Objection Certificate No. C1. 3322/2012 Dt. 14-12-2012 of the Regional Fire Officer, Fire and Rescue Services, Kottayam for the occupation of the said building for one Year.

- 2. In the circumstances, this No Objection Certificate is issued under my seal and authority for the occupation of the above building. No further construction will be allowed in the vacant spaces provided in the approved plan.
- 3. This department verified only the fire fighting arrangements provided in the building. It is seen that civil construction measurements were verified by local body as per their approved plan
- 4. This certificate is issued on the condition that the fire fighting systems installed will be kept always functional and the owner of the building should take special care to maintain the systems installed in proper working condition. This certificate is valid for one year from the date of issue. After One year the certificate must be renewed. Non renewal of the certificate within the time limit will result in loss of eligibility for insurance coverage and appropriate legal action by the local self Government / Revenue Department. All officers of and above the rank of Station Officers of the Fire & Rescue services department will have the right to inspect the building on any day/time after serving 7 days notice to ensure that the installed systems are in good working condition.

Note:- The Fire and Safety Systems in the building must be updated as by the standards of the NBC part – 4 before the next renewal i.e. 20/04/2024

To, The Applicant



Baiju D Station Officer, Fire & Rescue Station, Cherthala

ANNEXURE VIII - ENVIRONMENTAL MONITORING REPORTS





TEST REPORT

ULR No: TC540223000007834F				
LRI No.: SEAAL23050146A	Date: 03-05-2023	Page 1 of 1		

	CUSTOMER DETAILS
	M/s Carnousite Ayurveda & Wellness Resort
Customer Name & Address	Opp. Chennaveli Church, Mararikulam,
	Alappuzha District
Customer Reference	Test Request date: 24-04-2023

SAMPLE DETAILS				
Product Category	Atmospheric Pollution	Sample Code	EN23040764	
Sample Name	Ambient Air	Sample Received on	25-04-2023	
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	26-04-2023	
Sampled by	Lab Authorized Sampler	Test Completed on	02-05-2023	

DETAILS OF SAMPLING					
Sampling Location	East side Boundary	Date of Sampling	24-04-2023		
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	68 %		

TEST RESULTS-CHEMICAL					
SL NO	PARAMETERS	TEST METHOD	UNIT	RESULT	KSPCB LIMIT
1	Particulate matter (PM ₁₀)	IS 5182 (Part 23): 2006	μg/m³	50.5	100 (Max)
2	Particulate matter (PM _{2.5})	IS 5182 (Part 24): 2019	μg/m³	26.2	60.0 (Max)
3	Sulphur dioxide (as SO ₂)	IS 5182 (Part 2): 2001	μg/m³	<4.00	80.0 (Max)
4	Oxides of Nitrogen as NO ₂	IS 5182 (Part 6): 2006	μg/m³	<4.00	80.0 (Max)

End of Report

Shency Joy TM-Chemical Checked by: Laiju P N Laboratory Head Authorized Signatory

The results are related only to the samples submitted for analysis and this test report shall not be reproduced except in full, without the written approval of the laboratory.

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ULR No: TC540223000008371F			
LRI No.: SEAAL23050685A	Date: 09-05-2023	Page 1 of 1	

	CUSTOMER DETAILS
	M/s Carnousite Ayurveda & Wellness Resort
Customer Name & Address	Opp. Chennaveli Church, Mararikulam,
	Alappuzha District
Customer Reference	Test Request date: 05-05-2023

SAMPLE DETAILS					
Product Category Atmospheric Pollution Sample Code EN23050150					
Sample Name	Ambient Air	Sample Received on	06-05-2023		
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	09-05-2023		
Sampled by	Lab Authorized Sampler	Test Completed on	09-05-2023		

	DETAILS OF SA	AMPLING	
Sampling Location	Near Church	Date of Sampling	05-05-2023
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	68 %

TEST RESULTS-CHEMICAL					
SL NO	PARAMETERS	TEST METHOD	UNIT	RESULT	KSPCB LIMIT
1	Particulate matter (PM ₁₀)	IS 5182 (Part 23): 2006	μg/m³	50.3	100 (Max)
2	Particulate matter (PM _{2.5})	IS 5182 (Part 24): 2019	μg/m³	25.8	60.0 (Max)
3	Sulphur dioxide (as SO ₂)	IS 5182 (Part 2): 2001	μg/m³	<4.00	80.0 (Max)
4	Oxides of Nitrogen as NO ₂	IS 5182 (Part 6): 2006	μg/m³	<4.00	80.0 (Max)

End of Report

Shency Joy TM-Chemical Checked by: ng Andrews

Laiju P N Laboratory Head Authorized Signatory

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ULR No:	ULR No: TC540223000007835F			
LRI No.: SEAAL23050147A	Date: 03-05-2023	Page 1 of 1		

	CUSTOMER DETAILS
	M/s Carnousite Ayurveda & Wellness Resort
Customer Name & Address	Opp. Chennaveli Church, Mararikulam,
	Alappuzha District
Customer Reference	Test Request date: 24-04-2023

	DETAILS (OF MONITORING	
Product Category	Atmospheric Pollution	Sample Code	EN23040765
Sample Name	Ambient Noise	Monitoring Commenced on	24-04-2023
Test Method	IS 9989:1981	Monitoring Completed on	25-04-2023
Monitoring Location		Monitored by	Lab Authorized Sampler

	MONITORING RESULTS - Leq				
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A
06:00	37.4	14:00	50.2	22:00	36.3
07:00	40.1	15:00	50.6	23:00	36.0
08:00	44.4	16:00	51.7	24:00	38.6
09:00	47.9	17:00	52.1	01:00	39.3
10:00	50.2	18:00	46.7	02:00	39.0
11:00	53.3	19:00	43.2	03:00	39.7
12:00	50.6	20:00	39.4	04:00	38.6
13:00	49.8	21:00	38.9	05:00	40.4

Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time	dB(A)	48.7
2	Ambient Sound Level (Leq) Night Time	dB(A)	39.0

Remarks:

End of Report

Shency Joy TM-Chemical Checked by:



Laiju P N Laboratory Head Authorized Signatory

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UL	R No: TC540223000007836F	
LRI No.: SEAAL23050148A	Date: 03-05-2023	Page 1 of 2

	CUSTOMER DETAILS
	M/s Carnousite Ayurveda & Wellness Resort
Customer Name & Address	Opp. Chennaveli Church, Mararikulam,
	Alappuzha District
Customer Reference	Test Request date : 24-04-2023

超慢 建精氮 廣	SAMPLI	E DETAILS	建於其 孫的級。
Product Category	Pollution& Environment	Sample Code	EN23040766
Sample Name	Soil	Sample Received on	25-04-2023
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	25-04-2023
Sample Quantity& Packing	500g in Plastic Bag	Test Completed on	02-05-2023
Sampled by	Lab Authorized Sampler	Information Provided by Customer	

DETAILS OF SAMPLING				
Sample Source		Date of Sampling	24-04-2023	
Sampling Procedure	SEAAL/ENL/GEN/SOP/08	Sample Temperature	31 °C	

TEST RESULTS- CHEMICAL PARAMETERS						
Sl. No.	PARA	METERS	TEST METHOD	UNIT	RESULT	
1	рН		IS 10158: 1982		6.02	
2	Conductivity		IS 14767: 2000	μS/cm	210	
3	Water Holding Capacity		SEAAL/ENS/SLS/SOP/01	%	58.2	
	Particle Size Distribution	Clay	SEAAL/ENS/SLS/SOP/14	%	11.2	
4	Distribution	Sand	SEAAL/ENS/SLS/SOP/14	%	48.6	
	Silt	Silt	SEAAL/ENS/SLS/SOP/14	%	40.2	
5	Organic Matter		IS 2720 (Part 22):1992	%	0.20	
6	Sodium as Na		USEPA 7000B:2009	%	0.14	
7	Chlorides		SEAAL/ENS/SLS/SOP/08	%	0.68	

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ULI	R No: TC540223000007836F	
LRI No.: SEAAL23050148A	Date: 03-05-2023	Page 2 of 2

TEST RESULTS- CHEMICAL PARAMETERS				
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT
8	Sulphur	SEAAL/ENS/SLS/SOP/03	%	0.12
9	Total Kjeldahl Nitrogen as N	IS 14684:1999	%	0.14
10	Available Potassium	SEAAL/ENS/SLS/SOP/03	meq/100g	78.5
11	Total Phosphorous as P	IS 10158: 1982	%	0.12

Remarks:

End of Report

Shency Joy TM-Chemical Checked by: Laiju P N Laboratory Head Authorized Signatory

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ULI	R No: TC540223000007838F	
LRI No.: SEAAL23050150A	Date: 03-05-2023	Page 1 of 2

	CUSTOMER DETAILS	
	M/s Carnousite Ayurveda & Wellness Resort	
Customer Name & Address	Opp. Chennaveli Church, Mararikulam,	
	Alappuzha District	
Customer Reference	Test Request Date: 24-04-2023	

SAMPLE DETAILS				
Product Category	Water	Sample Code	WT23040546	
Sample Name	Ground Water	Sample Received on	25-04-2023	
Sample Description by Customer	Bore Well Water	Temperature @ Receipt	4°C	
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	25-04-2023	
Sample Quantity& Packing	2 L & 125 ml in a Plastic Bottle	Test Completed on	02-05-2023	
Information Provided by Customer		Sampled by	Lab Authorized Sampler	

DETAILS OF SAMPLING				
Sample Source	Bore Well	Date of Sampling	24-04-2023	
Sampling Procedure	SEAAL/ENL/GEN/SOP/01 & SEAAL/MBL/SOP/06	Sample Temperature	28°C	

	TEST RESULTS- CHEMICAL PARAMETERS				
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
1	Colour	IS 3025 (Part 4): 1983	Hazen	1	5 (Max)
2	Odour	IS 3025 (Part 5): 2018		Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10): 1984	NTU	0.6	1.0 (Max)
4	рН	IS 3025 (Part 11): 1983		7.49	6.50-8.50
5	Conductivity	IS 3025 (Part 14):1984	μS/cm	412	
6	Total Dissolved Solids	IS 3025 (Part 16): 1984	mg/L	266	500 (Max)
7	Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009	mg/L	100	200 (Max)
8	Calcium as Ca	IS 3025 (Part 40): 1991	mg/L	20.0	75 (Max)

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ULR No: TC540223000007838F			
LRI No.: SEAAL23050150A	Date: 03-05-2023	Page 2 of 2	

	TEST RESULTS- CHEMICAL PARAMETERS				
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
9	Magnesium as Mg	IS 3025 (Part 46): 1994	mg/L	12.2	30 (Max)
10	Chloride as Cl	IS 3025 (Part 32): 1988	mg/L	97.8	250 (Max)
11	Total Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986	mg/L	95.5	200 (Max)
12	Iron as Fe	IS 3025 (Part 53): 2003	mg/L	0.38	1 (Max)
13	Sulphate as SO ₄	IS 3025 (Part 24): 1986	mg/L	<1.00	200 (Max)

	TEST RESULTS - BIOLOGICAL PARAMETERS				
Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 : 2012
1	Total Coliform Bacteria	IS 15185 : 2016	1000	Absent/100 ml	Absent/100 ml
2	E coli	IS 15185 : 2016		Absent/100 ml	Absent/100 ml

Remarks: The water sample complies with drinking water Specification as per Acceptable Limit of IS10500:2012 With respect to above parameters tested .

End of Report

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UL	R No: TC540223000008372F	×.
LRI No.: SEAAL23050686A	Date: 09-05-2023	Page 1 of 1

CUSTOMER DETAILS			
M/s Carnousite Ayurveda & Wellness Resort			
Customer Name & Address	Opp. Chennaveli Church, Mararikulam,		
	Alappuzha District		
Customer Reference	Test Request Date: 05-05-2023		

SAMPLE DETAILS				
Product Category	Pollution& Environment	Sample Code	EN23050151	
Sample Name	Waste Water	Sample Received on	06-05-2023	
Sample Description by Customer	Sewage Water -Inlet	Temperature @ Receipt	27 °C	
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	06-05-2023	
Sample Quantity& Packing	2 Litre in Plastic Bottle	Test Completed on	09-05-2023	
Information Provided by Customer		Sampled by	Not Drawn by Laboratory	

S1. No.	PARAMETERS	TEST METHOD	UNIT	RESULT
1	pH	IS 3025 (Part 11):1983		6.12
2	Total Suspended Solids	IS 3025 (Part 17):1984	mg/L	145
3	Biochemical Oxygen Demand (3 days at 27 °C)	IS 3025 (Part 44):1993	mg/L	220
4	Chemical Oxygen Demand	IS 3025 (Part 58):2006	mg/L	710
5	Oil & Grease	IS 3025 (Part 39):1991	mg/L	18.0

Remarks:

End of Report

Shency Joy TM-Chemical Checked by:



Laiju P N Laboratory Head Authorized Signatory

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ULR No: TC540223000007837F				
LRI No.: SEAAL23050149A	Date: 03-05-2023	Page 1 of 1		

CUSTOMER DETAILS				
	M/s Carnousite Ayurveda & Wellness Resort			
Customer Name & Address	Opp. Chennaveli Church, Mararikulam,			
	Alappuzha District			
Customer Reference	Test Request Date: 24-04-2023			

SAMPLE DETAILS				
Product Category	Pollution& Environment	Sample Code	EN23040767	
Sample Name	Waste Water	Sample Received on	25-04-2023	
Sample Description by Customer	Sewage Water Treated	Temperature @ Receipt	6 °C	
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	26-04-2023	
Sample Quantity& Packing	2 Litre in Plastic Bottle	Test Completed on	02-05-2023	
Information Provided by Customer		Sampled by	Lab Authorized Sampler	

DETAILS OF SAMPLING				
Sample Source	STP	Date of Sampling	24-04-2023	
Sampling Procedure	SEAAL/ENL/GEN/SOP/01	Sample Temperature	27°C	

TEST RESULTS-CHEMICAL					
SI. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	KSPCB LIMIT
1	pH	IS 3025 (Part 11):1983		7.32	5.5 - 9.0
2	Total Suspended Solids	IS 3025 (Part 17):1984	mg/L	18.0	100 (Max)
3	Biochemical Oxygen Demand (3 days at 27 °C)	IS 3025 (Part 44):1993	mg/L	15.0	30 (Max)
4	Chemical Oxygen Demand	IS 3025 (Part 58):2006	mg/L	48.0	250 (Max)
5	Oil & Grease	IS 3025 (Part 39):1991	mg/L	<1.00	10 (Max)

Remarks:

End of Report

Shency Joy TM-Chemical Checked by:



Laiju P N Laboratory Head Authorized Signatory

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ANNEXURE IX - SITE PHOTOGRAPHS











