

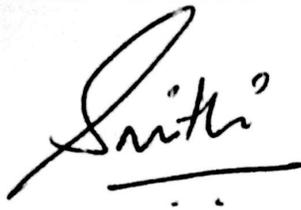
BEFORE THE NATIONAL GREEN TRIBUNAL, SOUTHERN
ZONAL BENCH, CHENNAI

APPLICATION NO. 105 of 2022 (SZ) & IA NO.176 OF 2022 (SZ)
WITH
ORIGINAL APPLICATION NO.122 OF 2022 (SZ)

Petitioner ::: Smt. Sunitha

Vs.

Respondents ::: Union of India & Others



Dated this the 6th day of January 2023

Adv. Rema Smrithi,
ADDITIONAL STANDING COUNSEL FOR THE RESPONDENT

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Dated this the 6th day of January 2023

Adv. Rema Smrithi,
ADDITIONAL STANDING COUNSEL FOR THE RESPONDENT 8

BEFORE THE NATIONAL GREEN TRIBUNAL, SOUTHERN
ZONAL BENCH, CHENNAI

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**REPORT FILED BY THE ENVIRONMENTAL ENGINEER (8th
RESPONDENT), DISTRICT OFFICE, ALAPPUZHA FOR AND ON BEHALF
OF THE KERALA STATE POLLUTION CONTROL BOARD**



Dated this the 6th day of January 2023

Adv. Rema Smrithi,
ADDITIONAL STANDING COUNSEL FOR THE RESPONDENT 8

BEFORE THE NATIONAL GREEN TRIBUNAL, SOUTHERN
ZONAL BENCH, CHENNAI

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**REPORT FILED BY THE ENVIRONMENTAL ENGINEER (8th
RESPONDENT), DISTRICT OFFICE, ALAPPUZHA FOR AND ON BEHALF
OF THE KERALA STATE POLLUTION CONTROL BOARD**

I, Smitha C.V., aged 42 years, D/o.Sri.C.I.Vishwanathan,
Environmental Engineer, District Office, Alappuzha. I am
competent to and duly authorized to represent the Board.

I know the facts and circumstances of the cases. The
factual submissions made hereunder are true and correct to the
best of my knowledge, information and belief. In these
circumstances, it is just and necessary that this Hon'ble Tribunal
may be pleased to accept the accompanying report on file and it
is so humbly prayed in the interests of justice in this case.



Smitha
Environmental Engineer
Kerala State Pollution Control Board
District Office, Alappuzha-1

1. I may humbly submit that, the Hon'ble High Court in WP(C) 19564/11 vide its order dated 25.07.2013 and connected cases and Hon'ble Supreme Court in SLP(C) 24390- 24391/2013 in its order dated 08/08/2013 had ordered demolition of the illegal construction made by Kappico Kerala Resorts Pvt Ltd. and Vamika Island Resorts Pvt Ltd. respectively at Vettilathuruthu, Vembanad Lake, Kerala. Kappico Kerala Resort situated in survey Numbers 261/1, 263/2/2, 263/3, 263/4, 263/4/2, 263/10/3, 266/1/1, 266/1/56, 266/1/87, 266/1/88 at Nedyathuruthu Island at Panavally Grama panchayat, Cherthala Taluk, Alappuzha District, in Kerala, is a seven-star resort project in a small backwater islands spread over an area of 12.5 acres. The resort consisted of main building, 34 cottages with individual single swimming pools and 20 luxury cottages with individual double swimming pools all facing the lake.

2. It is humbly submitted that this report is in continuation to the report filed as per orders dated 18.11.2022. As per Order of Hon'ble NGT dated 07.12.2022, the Board had been directed to file a comprehensive report in terms of the recommendations of the site visit report by the Committee constituted by the Hon'ble High Court of Kerala and report should specifically mention whether the required approvals have been obtained and whether the recommendations of the High Level Committee are taken into consideration.

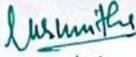
3. It is humbly submitted that the current status of compliance on recommendations of the Expert Committee constituted by the Central Government at the site are as follows: -



Lusmithe
 Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1

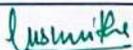
Sl. No	Recommendations	Current status
1	All the movable fixtures, fittings and furnishings should be salvaged first, which includes villa furniture, wardrobes, joinery items and electrical and electric items and installations	All the movable fixtures fittings and furnishings including villa furniture, wardrobes, joinery items and electrical and electronic items are salvaged by the unit and are kept in the central building. The list of the same maintained in a register by the unit.
2	The hazardous material should be removed and transported before commencement of physical demolition of structures by authorized recyclers/TSDF depending upon the waste type in compliance of HW (management, handling and transboundary movement) rules, 2008	It was found that they have installed DG sets. The used oil from DG set is not yet replaced and instruction has been given to dispose it through recyclers approved by the Board. Majority of lamps are LED lamps. The broken CFL lamps if any will be disposed through KEIL. Instruction has been issued to the unit in this regard. Copy of the instruction given to the unit is attached herewith and marked as Annexure R-8 (a)
3	Mechanical demolition will be suitable for all 54 villas since the majority of constructions are limited to ground floor. Only the front of house is a multi storey structure with strong concrete component. The option of controlled blasting	Mechanical demolition of the building are carried out using 2 JCBs. 6 villas were totally demolished and 4 villas were partially demolished. The valuables are recovered manually by the unit. Green net is provided near the demolition activity, towards the lake side, to prevent



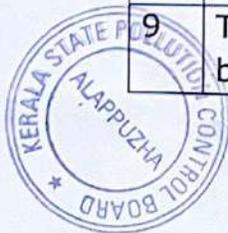

 Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1

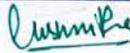
	<p>which will have minimum impact distance in terms of noise and vibration can be considered where ever required including for the front of house if it is possible to be done without affecting the lake. The pile foundation may not be disturbed</p>	<p>the falling of debris generated during the demolition into the lake. Site inspection, monitoring of ambient air, ambient water and sound at the demolition site is conducted by the Board. Results obtained were found within limits. Results are attached herewith and marked as Annexure R8(b).</p>
4	<p>Total removal/demolition of 2143 numbers of 300mm dia piles of 8-18m depth and 277 piles of 450-550mm dia of 45-50m depth is likely to cause great damage to the island and lake. Therefore, the sub structures may not be removed or demolished only the super structure can be removed down to 1 m below the ground level of island. The level of the resort after demolition can be kept at the current level without altering the contours.</p>	<p>Only superstructure of the building is being dismantled at the site. Compliance will be monitored.</p>
5	<p>The removal of materials and demolition should be simultaneously carried out. The removal of materials can be carried out unit wise simultaneously after completing the removal of fittings, fixtures and</p>	<p>Safe dismantling and removal of fittings, fixtures and other reusable materials from each cottage was done first before initiating the demolition of concrete structure.</p>




 Environmental Engineer
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	<p>hazardous materials in a given unit.</p> <p>Waste concrete should be disintegrated to small size before transportation.</p>	Compliance will be monitored.
6	Reusable materials should be salvaged and auctioned.	All the movable fixtures fittings and furnishings including villa furniture, wardrobes, joinery items and electrical and electronic items are salvaged by the unit and is kept in the central building. It is proposed to be reused in the new hotel project proposed at the Perumbalam Grama Panchayath.
7	It should be ensured that there is no spillage of waste or debris on to lake water during the loading, unloading and transportation. Therefore, only suitable vessels/containers should be used. The barge used for this purpose should be certified by the appropriate authority.	Instructions was given to the unit that the vehicle/Jungar transporting construction waste shall be fully covered to prevent spreading of dust and spillage of waste into the lakes and to provide Vehicles having GPS tagged. C & D waste has not yet been transported from the site. This will be monitored in due course.
8	Demolition should be carried out during non-rainy season after the suggestions made in the EIA report and restricted to day time.	Demolition of the unit is carrying out in non-rainy season and restricted to daytime only.
9	The demolition site should be screened upto 3 feet	Green net is provided up to 3 feet




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 District Office, Alappuzha-1

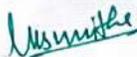
	above the height of the structure in avoid the spread of dust others material into the nearby environment.	height near the demolition activity towards the lake side to prevent the falling of debris generated during the demolition.
10	The demolition should be monitored/ reviewed regularly by Collector or Sub-Collector of the District.	Regular inspections, ambient air quality monitoring, sound level monitoring & water quality analysis are done regularly till date by the KSPCB officials. Detailed report on the basis of daily inspection along with monitoring results are given to District Administration office periodically. Sub-Collector of the District is also monitoring the progress and visiting the site.
11	The State Government can explore possibilities for utilization of debris with proper environment safeguards.	As reported by the unit, it is proposed to be used in the new hotel project proposed at the Perumbalam Grama panchayath.
12	The channel made within the resort to reach the front of the house shall be blocked and the water should be brought down prior to demolition so as to prevent entry of debris / dust to the lake through the canal .	The channel made within central building is not blocked and is still connected to the lake. The compliance will be monitored.
13	The action plan can be executed with the approval of the Master plan by Kerala	The Board is monitoring the demolition works from day one onwards. PWD vide letter dated



Ummath
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 Kerala State Pollution Control Board
 District Office, Alappuzha-1

	State Coastal Zone Management Authority & Kerala State Pollution Control Board and their supervision	17/06/2014 requested District Collector to entrust the preparation of master plan and execution of operation of demolition by a competent agency through a competitive bidding process and the cost of demolition was estimated to be 3.75 Crores. Meanwhile, Kapico had submitted a demolition plan on 12/07/2021 on the basis of meeting with District Administration and the demolition plan was prepared in line of recommendations provided in the Rapid EIA report of Environment Department. Based on the meeting convened by District Collector on 16/11/2021, action was taken to prepare SOP for demolition by different departments. Revised demolition plan was approved by the Secretary of Panavally Grama Panchayat. In the meeting convened by District Collector on 13.09.2022, the unit was asked to initiate demolition in line with demolition plan approved by the Secretary of Panavally Grama Panchayat.
14	As far as possible the overnight stay of workers at the island may be kept at minimal level.	Now daily 9 workers and a security are staying at night in the resort.
15	Safety equipments viz,	Mechanical demolition of the




 Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1

	helmets earmuffs etc's shall be provided to the workers and all safety measures should be followed.	building using 2 JCBs were carried out at present. Instructed the unit regarding the same.
16	A small capacity mobile STP for the treatment of the waste water may be provided on the island, in case of the M/s Kappico Kerala resorts Pvt. Ltd	Now only 13 workers are engaged in the demolition during daytime.
17	Protection wall around the island is to be retained and mangrove vegetation in and around the island to be promoted.	The retaining wall constructed all around the island is maintained. Instructed the unit regarding retaining of protection wall around the island and planting of mangrove vegetation in and around the island. Copy of the instruction provided to the unit is attached herewith and marked as Annexure R-8 (a)
18	The timeframe for the demolition should be set to ensure the timely completion of the demolition.	Period for the completion provided for the demolition process was six months by the District Administration. The unit assured that they will complete the same within March 25 th .
19	The cost of the demolition should also be ascertained. The cost may be recovered from the owners or could be recovered by the auction of reusable material.	The demolition of the resort is currently done by the unit owners.

4. It may kindly be noted that the PWD requested the



Lusmita
 Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1

District Collector vide letter dated 17/06/2014 to entrust the preparation of master plan and to execute the operation of demolition by a competent agency through a competitive bidding process. Meanwhile, Kapico had submitted a demolition plan on 12/07/2021 on the basis of meeting with District administration. The demolition plan was prepared in lines of recommendation provided in the Rapid EIA report of Environment Department , Govt. of Kerala. Action was taken to prepare SOP for demolition by different Departments. Revised demolition plan submitted by Kapico was approved by the Secretary of Panavally Grama Panchayat. In the meeting convened by District Collector on 13.09.2022, the unit was asked to initiate demolition in line with demolition plan approved by the Secretary of Panavally Grama Panchayat. The approved demolition plan was forwarded by the Secretary of Panavally Grama Panchayath to the Board on 13.09.2022. The Board issued directions to the unit on 22.09.2022 to provide pollution control measures for preventing pollution in the demolition site. Copy of the same is attached herewith as **Annexure R-8 (c).**

5. It is humbly submitted that, as per the Order of the Hon'ble Supreme Court, demolition of Kappico resort commenced on 15.09.2022 at 10 am in the presence of District Collector, Thahasildar, Panchayath Secretary and other officials. The time limit given by District Collector for the demolition of the building was 6 months.

6. It is submitted that the Board had issued further instructions to the unit on 15.10.2022 that the demolition



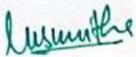
Musuntha
Environmental Engineer
Kerala State Pollution Control Board
District Office, Alappuzha-1

process, segregation, storage and transportation of demolished materials should be in an environmentally sound manner with maximum recycling/reuse of demolition materials with complete adherence to the Government order no G.O.(Ms) No. 168/2022/LSGD dated 30.07.2022 regarding guidelines for managing construction & demolition waste in Kerala. Copy of the same is attached herewith as **Annexure R-8 (d)**.

7. It is submitted that during the latest inspection conducted on 26.12.2022, structural demolition of deluxe cottage carried out using two JCBs. 6 villas were totally demolished and 4 villas were partially demolished. Roof tiles from all these has already been shifted to a cleaned area adjacent to the cottage. Luxury cottages with more spacious interior, amenities and double pools are yet to be demolished. The demolition process is progressing. The waste debris generated from the demolition of villas is deposited at the site where the villas are located. Demolished debris are stored and no processing of waste is carried out. Boundary is enclosed with garden net for avoiding environmental pollution during demolition. Six registers were maintained at the site for recording the details of various kinds of demolished items.

8. It is humbly submitted that the unit proposes to reuse maximum demolition items in the new hotel project proposed at the Perumbalam Grama Panchayath with no processing of the waste being carried out at the site and in the disposal site. Prior consent / authorization of the Board is not mandated for carrying out the demolition activity.




Environmental Engineer
Kerala State Pollution Control Board
District Office, Alappuzha-1

10. It is further submitted that the Board is regularly supervising the demolition activities from first day of demolition and necessary directions are given for complying with the norms. The Board shall continue the monitoring activities to ensure compliance with the Water (Prevention & Control) of Pollution Act, 1974 and the Air (Prevention & Control of Pollution), Act 1981. No pollution has occurred till now during the demolition process in terms of parameters for Class D (Propagation of wildlife and fisheries) category of Vembanad Backwater in that area. Ambient air quality, sound level & ambient water quality parameters were found within the limit. Necessary instructions have been given by the Board from time to time to the unit and to the local authority for ensuring that the demolishing activities in no way affect the flora and fauna of the Vembanad Lake and the environment.

All the facts stated above are true to the best of my knowledge, information and belief.

Dated this the 6th day of January, 2023.



Environmental Engineer
Kerala State Pollution Control Board,
District Office, Alappuzha.

Environmental Engineer
Kerala State Pollution Control Board
District Office, Alappuzha-1



ജില്ലാ ഓഫീസ്, ആലപ്പുഴ
കേരള സംസ്ഥാന ലിനികരണ നിയന്ത്രണ ബോർഡ്
KERALA STATE POLLUTION CONTROL BOARD
DISTRICT OFFICE, ALAPPUZHA

എസ്.എൻ.വി.സദനം, ന്യൂ ചാത്തനാട്, പോസ്റ്റ് ഓഫീസ്, ആലപ്പുഴ - 688001
 SNV Sadhanam, New Chathanad, Head Post Office, Alappuzha - 688001

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PCB/ALP/UCE-199/09

04.01.2023

From,
 Environmental Engineer
 To,
 M/s.Kappico Kerala Resorts Pvt.Ltd,
 Building No.62/376,
 Kozhipparambathu House,
 1st Floor, Church landing Road,
 Ernakulam-682016

Sub:- Demolishing of M/s.Kappico Kerala Resort Pvt.Ltd at Panavally GramapanchayathReg.

Ref:- Expert committee recommendation for Demolition of M/s.Kappico Kerala Resort Pvt.Ltd

Sir,

As per the reference cited above, the following Expert committee recommendation shall be complied.

1. Hazardous waste generated during the demolition (as per hazardous waste management rules) shall be disposed through KEIL
2. Waste oil generated shall be disposed through authorised recyclers of the Board.
3. The retaining wall around the island shall be maintained and mangrove vegetation in and around the island shall be planted after the demolition.

The demolition shall be done complying with the above norms and shall report to this office at the earliest.

Your's faithfully,

ENVIRONMENTAL ENGINEER

Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1

True copy

Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1





ജില്ലാ ഓഫീസ്, ആലപ്പുഴ
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ANALYSIS REPORT (WATER MONITORING)	Date: 22.09.2022
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA
Scientist-in-charge of analysis	Assistant Scientist

PARAMETERS	DATE OF SAMPLING		
	<u>15/09/2022</u>	<u>16/09/2022</u>	<u>17/09/2022</u>
PH	7.27	6.88	6.84
CONDUCTIVITY	71.26	72.91	122.1
TURBIDITY	2.4	2.08	2.18
ALKALINITY	70	70	70
TOTAL HARDNESS	60	40	50
BOD	1.1	1.6	0.2
S.S	32	28	29
DO	5.6	7.3	6.8
TDS	31	32	52
Remarks	CLASS D-PROPAGATION OF WILD LIFE, FISHERIES Permissible Limit = pH : 6.5 to 8.5 , DO: 4 mg/l or more, Free Ammonia :1.2mg/l or less		

Trace copy

[Signature]

ASSISTANT SCIENTIST

ASSISTANT SCIENTIST



[Signature]

Environmental Engineer
Kerala State Pollution Control Board
District Office Alappuzha-1



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DISTRICT OFFICE, ALAPPUZHA

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ANALYSIS REPORT (WATER MONITORING)	Date: 30.09.2022
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA
Scientist-in-charge of analysis	Assistant Scientist

PARAMETERS	DATE OF SAMPLING		
	<u>22/09/2022</u>	<u>24/09/2022</u>	<u>27/09/2022</u>
PH	6.72	6.8	7.11
CONDUCTIVITY	251.5	426.7	385.9
TURBIDITY	2.31	2.54	3.77
ALKALINITY	70	70	70
TOTAL HARDNESS	60	90	50
DO	7.8	7.9	7.9
S.S	34	34	36
TDS	157	244.6	182
BOD	1.9	2.5	2.6
Remarks	CLASS D-PROPAGATION OF WILD LIFE, FISHERIES Permissible Limit = pH : 6.5 to 8.5 , DO: 4 mg/l or more, Free Ammonia : 1.2mg/l or less		

True copy

ASSISTANT SCIENTIST

ASSISTANT SCIENTIST



Classified
 Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1A



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DISTRICT OFFICE, ALAPPUZHA

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ANALYSIS REPORT (WATER MONITORING)	Date: 12.10.2022
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA
Scientist-in-charge of analysis	Assistant Scientist

PARAMETERS	DATE OF SAMPLING		
	<u>30/09/2022</u>	<u>04/10/2022</u>	<u>06/10/2022</u>
PH	7.06	6.93	7.3
CONDUCTIVITY	320.4	646.2	840
TURBIDITY	5.39	3.28	4.29
ALKALINITY	60	60	50
TOTAL HARDNESS	30	90	110
DO	7.7	7.1	7.8
S.S	36	38	18
TDS	134	300	421
BOD	2.1	2.1	2.7
Remarks	CLASS D-PROPAGATION OF WILD LIFE, FISHERIES Permissible Limit = pH : 6.5 to 8.5 , DO: 4 mg/l or more, Free Ammonia :1.2mg/l or less		

True copy

[Signature]

ASSISTANT SCIENTIST

ASSISTANT SCIENTIST

[Signature]

Environmental Engineer
Kerala State Pollution Control Board
District Office Alappuzha-1





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KERALA STATE POLLUTION CONTROL BOARD
DISTRICT OFFICE, ALAPPUZHA

എസ്.എൻ.വി.സദനം, ന്യൂ ചാത്തനാട്, ഹെഡ് പോസ്റ്റ് ഓഫീസ്, ആലപ്പുഴ - 688001

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ANALYSIS REPORT (WATER MONITORING)	Date: 15.10.2022
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA
Scientist-in-charge of analysis	Assistant Scientist

PARAMETERS	DATE OF SAMPLING		
	<u>07/10/2022</u>	<u>10/10/2022</u>	<u>11/10/2022</u>
PH	7.2	7.1	7
CONDUCTIVITY	291.1	854.3	925
TURBIDITY	2.47	4.81	2.52
ALKALINITY	50	70	70
TOTAL HARDNESS	50	90	115
DO	6	7.9	7.1
S.S	22	25	22
TDS	134	386	135
BOD	3.3	3.2	2.2
Remarks	CLASS D-PROPAGATION OF WILD LIFE, FISHERIES Permissible Limit = pH : 6.5 to 8.5 , DO: 4 mg/l or more, Free Ammonia :1.2mg/l or less		

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Signature

Environmental Engineer
Kerala State Pollution Control Board
District Office, Alappuzha-I





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ANALYSIS REPORT (WATER MONITORING)	Date: 22.10.2022
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA
Scientist-in-charge of analysis	Assistant Scientist

PARAMETERS	DATE OF SAMPLING		
	<u>12/10/2022</u>	<u>13/10/2022</u>	<u>14/10/2022</u>
PH	7.14	6.8	6.8
CONDUCTIVITY	986	1026	1080
TURBIDITY	3.07	5.26	4.14
ALKALINITY	50	90	50
TOTAL HARDNESS	145	176	100
DO	8.7	8.1	7.5
S.S	25	29	34
TDS	198	212	448
BOD	4.4	2.3	4.3
Remarks	CLASS D-PROPAGATION OF WILD LIFE, FISHERIES Permissible Limit = pH : 6.5 to 8.5 , DO: 4 mg/l or more, Free Ammonia : 1.2mg/l or less		

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Environmental Engineer
Kerala State Pollution Control Board
District Office, Alappuzha-1





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ANALYSIS REPORT (WATER MONITORING)	Date: 22.10.2022
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA
Scientist-in-charge of analysis	Assistant Scientist

PARAMETERS	DATE OF SAMPLING			
	<u>15/10/2022</u>	<u>17/10/2022</u>	<u>18/10/2022</u>	<u>19/10/2022</u>
PH	6.99	7.28	6.94	6.72
CONDUCTIVITY	561.7	822	1409	648.4
TURBIDITY	7.6	1.38	14.29	5.46
ALKALINITY	50	80	70	50
TOTAL HARDNESS	120	280	160	80
DO	6.7	6.9	7.1	6.8
S.S	34	32	38	32
TDS	260	115	638	298
BOD	1.9	2.2	2.6	2.4
Remarks	CLASS D-PROPAGATION OF WILD LIFE, FISHERIES Permissible Limit = pH : 6.5 to 8.5 , DO: 4 mg/l or more, Free Ammonia :1.2mg/l or less			

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Environmental Engineer
 Kerala State Pollution Control Board
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ANALYSIS REPORT (WATER MONITORING)	Date: 28.10.2022
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA
Scientist-in-charge of analysis	Assistant Scientist

PARAMETERS	DATE OF SAMPLING			
	<u>20/10/2022</u>	<u>21/10/2022</u>	<u>22/10/2022</u>	<u>25/10/2022</u>
PH	6.94	7.01	7.27	6.77
CONDUCTIVITY	213.6	186.1	172.3	149.4
TURBIDITY	5.75	6.6	2.41	5.56
ALKALINITY	30	40	40	30
TOTAL HARDNESS	60	70	60	60
DO	7.4	6.9	7.1	7.1
S.S	34	36	32	34
TDS	98	85	63	67
BOD	1.9	1	1.6	2.4
Remarks	CLASS D-PROPAGATION OF WILD LIFE, FISHERIES Permissible Limit = pH : 6.5 to 8.5 , DO: 4 mg/l or more, Free Ammonia :1.2mg/l or less			

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ANALYSIS REPORT (WATER MONITORING)	Date: 11.11.2022
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA
Scientist-in-charge of analysis	Assistant Scientist

PARAMETERS	<u>26/10/2022</u>	<u>28/10/2022</u>	<u>29/10/2022</u>	<u>31/10/2022</u>
LOCATION	9.825182, 76.367858	9.8256960, 76.3677010	9.825249, 76.367824	9.825255, 76.367827
PH	7.16	6.75	6.81	6.53
CONDUCTIVITY	175.2	562.8	1590	7188
TURBIDITY	6.23	7.56	2.06	10.93
ALKALINITY	50	70	60	40
TOTAL HARDNESS	40	70	170	480
DO	7.9	7.1	5.5	7.9
S.S	32	36	40	40
TDS	19	257	698	286
BOD	1.8	0.6	1	5.2
Remarks	CLASS D-PROPAGATION OF WILD LIFE, FISHERIES Permissible Limit = pH : 6.5 to 8.5 , DO: 4 mg/l or more, Free Ammonia :1.2mg/l or less			

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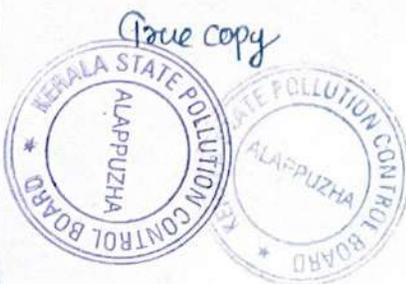
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ANALYSIS REPORT (WATER MONITORING)	Date: 14.11.2022
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA
Scientist-in-charge of analysis	Assistant Scientist

PARAMETERS	DATE OF SAMPLING					
	<u>01/11/2022</u>	<u>03/11/2022</u>	<u>04/11/2022</u>	<u>07/11/2022</u>	<u>09/11/2022</u>	<u>12/11/2022</u>
LOCATION	9.825250, 76.367818	9.825435, 76.367387	9.82255080, 76.3677550	9.8255410, 76.3674000	9.8254472, 76.3673894	9.825251, 76.367824
PH	6.7	6.95	6.66	6.68	6.57	6.56
CONDUCTIVITY	5598	2353	1055	213.1	191.1	453.4
TURBIDITY	5.5	1.8	4.43	4.01	4.94	9.66
ALKALINITY	70	30	30	20	60	60
TOTAL HARDNESS	520	340	90	20	40	100
DO	6	6.8	7.6	6.8	7.5	7
S.S	42	40	38	32	38	42
TDS	235	104	477	92	86	183
BOD	4.5	0.8	2.3	1.9	1.5	1.8
Remarks	CLASS D-PROPAGATION OF WILD LIFE, FISHERIES Permissible Limit = pH : 6.5 to 8.5 , DO: 4 mg/l or more, Free Ammonia :1.2mg/l or less					



Uthman
 Environmental Engineer
 Kerala State Pollution Control Board
 District Office Alappuzha-1

[Signature]
 ASSISTANT SCIENTIST
ASSISTANT SCIENTIST



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ANALYSIS REPORT (WATER MONITORING)	Date: 02-12-2022
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA
Scientist-in-charge of analysis	Assistant Scientist

PARAMETERS	DATE OF SAMPLING					
	<u>14/11/2022</u>	<u>17/11/2022</u>	<u>19/11/2022</u>	<u>22/11/2022</u>	<u>25/11/2022</u>	<u>30/11/2022</u>
LOCATION	9.825307, 76.367878	9.825317, 76.367669	9.825246, 76.367788	9.825298, 76.367860	9.825253, 76.367743	9.825588, 76.367681
PH	6.55	7.21	6.86	6.72	7.09	6.76
CONDUCTIVITY	1445	201.3	114.4	1481	3508	2552
TURBIDITY	4.13	1.82	2.61	5.44	4.32	3.48
ALKALINITY	30	40	50	70	50	60
TOTAL HARDNESS	140	60	50	200	380	260
DO	5.9	6.9	7.3	7.4	6.3	7.1
S.S	34	38	32	45	42	44
TDS	529	75	52	673	151	941
BOD	3.4	1.8	2.4	1.2	1.5	1.6
Free Ammonia			BDL	BDL	BDL	BDL
Remarks	CLASS D-PROPAGATION OF WILD LIFE, FISHERIES Permissible Limit = pH : 6.5 to 8.5 , DO: 4 mg/l or more, Free Ammonia :1.2mg/l or less					

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Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha

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ASSISTANT SCIENTIST

ASSISTANT SCIENTIST



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ANALYSIS REPORT (SOUND MONITORING)		Date: 31.10.2022
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA	
Engineer-in-charge of Monitoring	Assistant Engineer	

PARAMETERS	DATE OF SOUND MONITORING						
	<u>06/10/2022</u>	<u>10/10/2022</u>	<u>11/10/2022</u>	<u>12/10/2022</u>	<u>13/10/2022</u>	<u>14/10/2022</u>	<u>15/10/22</u>
dB(A)	52.7 dB	58.3dB	53dB	55.7dB	54.7dB	65.2dB	55.6dB

PARAMETERS	DATE OF SOUND MONITORING						
	<u>15/09/2022</u>	<u>16/09/2022</u>	<u>17/09/2022</u>	<u>22/09/2022</u>	<u>24/09/2022</u>	<u>27/9/2022</u>	<u>30/09/22</u>
dB(A)	57.5dB	55.9 dB	64.3 dB	52.9 dB	58.2 dB	50.7 dB	59 dB

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Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1

[Handwritten Signature]

ENVIRONMENTAL ENGINEER



Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1



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ANALYSIS REPORT (SOUND MONITORING)		Date: 31.10.2022
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA	
Engineer-in-charge of Monitoring	Assistant Engineer	

PARAMETERS	DATE OF SOUND MONITORING					
	<u>19/10/2022</u>	<u>20/10/2022</u>	<u>21/10/2022</u>	<u>22/10/2022</u>	<u>26/10/2022</u>	<u>28/10/2022</u>
LOCATION	9.825554, 76.367478	9.825738, 76.367600	9.825610, 76.367679	9.825472, 76.367948	9.825559, 76.367799	9.825988, 76.369720
dB(A)	61.7 dB	63.5 dB	53.7 dB	53.7dB	52.8 dB	50.1dB

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[Handwritten Signature]

Environmental Engineer
Kerala State Pollution Control Board
District Office, Alappuzha



[Handwritten Signature]

ENVIRONMENTAL ENGINEER

Environmental Engineer
Kerala State Pollution Control Board
District Office, Alappuzha-1A





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ANALYSIS REPORT (SOUND MONITORING)	Date: 14.11.2022
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA
Engineer-in-charge of Monitoring	Assistant Engineer

PARAMETERS	DATE OF SOUND MONITORING					
	<u>29/10/2022</u>	<u>01/11/2022</u>	<u>04/11/2022</u>	<u>07/11/2022</u>	<u>09/11/2022</u>	<u>12/11/2022</u>
LOCATION	9.826278, 76.368042	9.825599, 76.367805	9.825756,7 6.367449	9.826278,7 6.368042	9.825776,7 6.367429	9.825501, 76.367978
dB(A)	54.4 dB	58.5 dB	68.9 dB	54.4 dB	58.5 dB	68.9 dB

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Lalambika

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 Kerala State Pollution Control Board
 District Office, Alappuzha-1A





ജില്ലാ ഓഫീസ്, ആലപ്പുഴ
കേരള സംസ്ഥാന ജലനീകരണ നിയന്ത്രണ ബോർഡ്
KERALA STATE POLLUTION CONTROL BOARD
DISTRICT OFFICE, ALAPPUZHA

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ANALYSIS REPORT (SOUND MONITORING)	Date: 02.12.2022
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA
Engineer-in-charge of Monitoring	Assistant Engineer

PARAMETERS	DATE OF SOUND MONITORING					
	<u>14/11/2022</u>	<u>17/11/2022</u>	<u>19/11/2022</u>	<u>22/11/2022</u>	<u>25/11/2022</u>	<u>30/11/2022</u>
LOCATION	9.8257980,76 .367466	9.8255880, 76.367688	9.825788, 76.367392	9.825863, 76.367604	9.825923,7 6.367142	9.825588, 76.367681
dB(A)	60.9dB	57.6dB	53.2 dB	57.9 dB	57.3 dB	58.7 dB

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[Handwritten Signature]

Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1

[Handwritten Signature]

ENVIRONMENTAL ENGINEER

Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1





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ANALYSIS REPORT (AIR MONITORING)		Date: 22.09.2022	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	15.09.2022	No. of Parameters	4
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

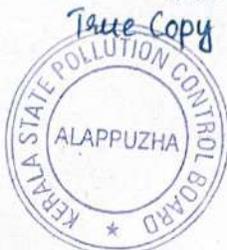
Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	21
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	0
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	21
4	RSPM (PM2.5)	$\mu\text{g}/\text{m}^3$	4.56
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter

TSPM – Total Suspended Particulate Matter

PM10 – Particulate matter of size 10micron

PM2.5 – Particulate matter of size 2.5micron



[Signature]
ASSISTANT SCIENTIST

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ANALYSIS REPORT (AIR MONITORING)		Date: 24.09.2022	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	22.09.2022	No. of Parameters	4
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	87
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	2
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	89
4	RSPM (PM2.5)	$\mu\text{g}/\text{m}^3$	3.7
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter

TSPM – Total Suspended Particulate Matter

PM10 – Particulate matter of size 10micron

PM2.5 – Particulate matter of size 2.5micron

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 Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1



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 ASSISTANT SCIENTIST
 ASSISTANT SCIENTIST



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ANALYSIS REPORT (AIR MONITORING)		Date: 28.09.2022	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	27.09.2022	No. of Parameters	4
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	66
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	2
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	68
4	RSPM (PM2.5)	$\mu\text{g}/\text{m}^3$	1.7
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter

TSPM – Total Suspended Particulate Matter

PM10 – Particulate matter of size 10micron

PM2.5 – Particulate matter of size 2.5micron

True copy
[Signature]

Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1a.



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 ASSISTANT SCIENTIST

ASSISTANT SCIENTIST



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ANALYSIS REPORT (AIR MONITORING)		Date: 01.10.2022	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	30.09.2022	No. of Parameters	4
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	91
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	2
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	93
4	RSPM (PM2.5)	$\mu\text{g}/\text{m}^3$	2.1
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter
 TSPM – Total Suspended Particulate Matter
 PM10 – Particulate matter of size 10micron
 PM2.5 – Particulate matter of size 2.5micron

True Copy
Subramaniam

Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1



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 ASSISTANT SCIENTIST



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ANALYSIS REPORT (AIR MONITORING)		Date: 12.10.2022	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	04.10.2022	No. of Parameters	4
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	24
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	2
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	26
4	RSPM (PM2.5)	$\mu\text{g}/\text{m}^3$	2.39
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter

TSPM – Total Suspended Particulate Matter

PM10 – Particulate matter of size 10micron

PM2.5 – Particulate matter of size 2.5micron

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[Signature]
 Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1



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 ASSISTANT SCIENTIST
 ASSISTANT SCIENTIST



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ANALYSIS REPORT (AIR MONITORING)		Date: 12.10.2022	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	07.10.2022	No. of Parameters	4
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	58
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	2
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	60
4	RSPM (PM2.5)	$\mu\text{g}/\text{m}^3$	2.27
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter

TSPM – Total Suspended Particulate Matter

PM10 – Particulate matter of size 10micron

PM2.5 – Particulate matter of size 2.5micron

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Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1.



ASSISTANT SCIENTIST

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ANALYSIS REPORT (AIR MONITORING)		Date: 14.10.2022	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	11.10.2022	No. of Parameters	4
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	70
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	2
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	72
4	RSPM (PM2.5)	$\mu\text{g}/\text{m}^3$	2.27
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter

TSPM – Total Suspended Particulate Matter

PM10 – Particulate matter of size 10micron

PM2.5 – Particulate matter of size 2.5micron

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[Signature]

Environmental Engineer
Kerala State Pollution Control Board
District Office, Alappuzha-1



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ANALYSIS REPORT (AIR MONITORING)		Date: 22.10.2022	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	15.10.2022	No. of Parameters	4
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	81
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	2
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	83
4	RSPM (PM2.5)	$\mu\text{g}/\text{m}^3$	3.1
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter

TSPM – Total Suspended Particulate Matter

PM10 – Particulate matter of size 10micron

PM2.5 – Particulate matter of size 2.5micron

True copy

Signature

Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1



Signature
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 ASSISTANT SCIENTIST



ജില്ലാ ഓഫീസ്, ആലപ്പുഴ
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ANALYSIS REPORT (AIR MONITORING)		Date: 22.10.2022	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	19.10.2022	No. of Parameters	4
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	57
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	0
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	57
4	RSPM (PM2.5)	$\mu\text{g}/\text{m}^3$	1.6
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter

TSPM – Total Suspended Particulate Matter

PM10 – Particulate matter of size 10micron

PM2.5 – Particulate matter of size 2.5micron

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[Signature]

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ANALYSIS REPORT (AIR MONITORING)		Date: 28.10.2022	
Location		9.825339, 76.368187	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	22.10.2022	No. of Parameters	4
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	30
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	0
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	30
4	RSPM (PM2.5)	$\mu\text{g}/\text{m}^3$	2.3
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter

TSPM – Total Suspended Particulate Matter

PM10 – Particulate matter of size 10micron

PM2.5 – Particulate matter of size 2.5micron

True copy

[Signature]

Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1



[Signature]

ASSISTANT SCIENTIST

ASSISTANT SCIENTIST



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ANALYSIS REPORT (AIR MONITORING)		Date: 28.10.2022	
Location		9.825389, 76.368226	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	26.10.2022	No. of Parameters	3
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	33
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	0
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	33
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter
 TSPM – Total Suspended Particulate Matter
 PM10 – Particulate matter of size 10micron

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Environmental Engineer
 Kerala State Pollution Control Board
 District Office Alappuzha I



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ANALYSIS REPORT (AIR MONITORING)		Date: 07.11.2022	
Location		9.825556, 76.367857	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	03.11.2022	No. of Parameters	3
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	54
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	2
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	56
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter

TSPM – Total Suspended Particulate Matter

PM10 – Particulate matter of size 10micron

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Uthmanya
 Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1



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ANALYSIS REPORT (AIR MONITORING)		Date: 14.11.2022	
Location		9.825503, 76.367907	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	12.11.2022	No. of Parameters	3
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	72
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	2
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	74
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter

TSPM – Total Suspended Particulate Matter

PM10 – Particulate matter of size 10micron

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Environmental Engineer

Environmental Engineer
Kerala State Pollution Control Board
District Office, Alappuzha 1.



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ANALYSIS REPORT (AIR MONITORING)		Date: 18.11.2022	
Location		9.825503, 76.367907	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	17.11.2022	No. of Parameters	3
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	35
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	0
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	35
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter

TSPM – Total Suspended Particulate Matter

PM10 – Particulate matter of size 10micron

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 Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1



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ANALYSIS REPORT (AIR MONITORING)		Date: 25.11.2022	
Location		9.825444,76.367899	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	22.11.2022	No. of Parameters	3
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	41
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	2
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	43
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter

TSPM – Total Suspended Particulate Matter

PM10 – Particulate matter of size 10micron

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[Handwritten Signature]

Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1



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ANALYSIS REPORT (AIR MONITORING)		Date: 28.11.2022	
Location		9.825503, 76.367907	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	25.11.2022	No. of Parameters	3
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	48
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	6
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	54
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter

TSPM – Total Suspended Particulate Matter

PM10 – Particulate matter of size 10micron

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[Signature]
 Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1



[Signature]
 ASSISTANT SCIENTIST

ASSISTANT SCIENTIST



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ANALYSIS REPORT (AIR MONITORING)		Date: 02.12.2022	
Location		9.825503, 76.367907	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	30.11.2022	No. of Parameters	3
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	50
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	2
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	52
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter

TSPM – Total Suspended Particulate Matter

PM10 – Particulate matter of size 10micron

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[Signature]
 Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1 a.



[Signature]

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ANALYSIS REPORT (WATER MONITORING)		Date: 27-12-2022
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA	
Scientist-in-charge of analysis	Assistant Scientist	

PARAMETERS	DATE OF SAMPLING				
	<u>03/12/2022</u>	<u>07/12/2022</u>	<u>13/12/2022</u>	<u>17/12/2022</u>	<u>20/12/2022</u>
LOCATION	9.825317, 76.367868	9.825328, 76.367679	9.825259, 76.367781	9.825273, 76.367863	9.825264, 76.367748
PH	7.12	6.89	6.88	6.66	6.84
CONDUCTIVITY	1116	2791	343.7	2031	7258
TURBIDITY	4.60	1.47	6.75	3.67	3.58
ALKALINITY	30	80	80	80	60
TOTAL HARDNESS	180	320	90	210	710
DO	6.7	7.8	7.1	7	8.3
S.S	44	44	48	44	48
TDS	517	120	160	740	262
BOD	4	3.9	6.9	5.6	1.2
Free Ammonia	BDL	BDL	BDL	BDL	BDL
Remarks	CLASS D-PROPAGATION OF WILD LIFE, FISHERIES Permissible Limit =pH : 6.5 to 8.5 , DO: 4 mg/l or more, Free Ammonia : 1.2mg/l or less				



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[Signature]

Environmental Engineer
Kerala State Pollution Control Board
District Office, Alappuzha-14

[Signature]

ASSISTANT SCIENTIST
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ANALYSIS REPORT (AIR MONITORING)		Date: 29.12.2022	
Location		9.85561, 76.367819	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	03.12.2022	No. of Parameters	3
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	24
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	0
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	24
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter

TSPM – Total Suspended Particulate Matter

PM10 – Particulate matter of size 10micron



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Ushamika

Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1

[Signature]
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ANALYSIS REPORT (AIR MONITORING)		Date: 29.12.2022	
Location		9.825529, 76.367886	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	07.12.2022	No. of Parameters	3
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	46
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	0
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	46
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter

TSPM – Total Suspended Particulate Matter

PM10 – Particulate matter of size 10micron

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Environmental Engineer
 Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha

[Signature]

ASSISTANT SCIENTIST

ASSISTANT SCIENTIST



ജില്ലാ ഓഫീസ്, ആലപ്പുഴ
കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്
KERALA STATE POLLUTION CONTROL BOARD
DISTRICT OFFICE, ALAPPUZHA

എസ്.എൻ.വി.സദനം, ന്യൂ ചാത്തനാട്, ഹെഡ് പോസ്റ്റ് ഓഫീസ്, ആലപ്പുഴ - 688001

SNV Sadhanam, New Chathanad, Head Post Office, Alappuzha - 688001

E-mail: alpy.pcb@gmail.com Telephone : 0477 - 2235384 web: www.keralapcb.nic.in

ഓൺലൈനിൽ അപേക്ഷകൾ സമർപ്പിക്കുന്നതിന് www.kspcb.nic.in എന്ന വെബ്സൈറ്റ് ഉപയോഗിക്കുക.

ANALYSIS REPORT (AIR MONITORING)		Date: 29.12.2022	
Location		9.825551, 76.367827	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	13.12.2022	No. of Parameters	3
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	53
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	0
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	53
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter

TSPM – Total Suspended Particulate Matter

PM10 – Particulate matter of size 10micron

True copy



[Signature]

Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha 1

[Signature]

ASSISTANT SCIENTIST
 ASSISTANT SCIENTIST



ജില്ലാ ഓഫീസ്, ആലപ്പുഴ
കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്
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ANALYSIS REPORT (AIR MONITORING)		Date: 29.12.2022	
Location		9.825558, 76.367866	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	17.12.2022	No. of Parameters	3
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	41
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	0
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	41
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter

TSPM – Total Suspended Particulate Matter

PM10 – Particulate matter of size 10micron

True copy



Signature

Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1

Signature

ASSISTANT SCIENTIST
 ASSISTANT SCIENTIST



ജില്ലാ ഓഫീസ്, ആലപ്പുഴ
കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്
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DISTRICT OFFICE, ALAPPUZHA

എസ്.എൻ.വി.സദനം, ന്യൂ ചാത്തനാട്, പൊസ്റ്റ് ഓഫീസ്, ആലപ്പുഴ - 688001

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ANALYSIS REPORT (AIR MONITORING)		Date: 29.12.2022	
Location		9.825689, 76.367548	
Source	KAPPICO RESORT, PANAVALLY, CHERTHALA		
Date of sample Collection	27.12.2022	No. of Parameters	3
National Ambient Air quality standards			
Pollutant	Time weighted average	Concentration in Ambient Air	
Particulate matter (PM10)	24hours	100	
Particulate matter (PM2.5)	24hours	60	

Sl.No.	Parameter	Unit	Value
1	RSPM (PM10)	$\mu\text{g}/\text{m}^3$	48
2	NRSPM (PM10)	$\mu\text{g}/\text{m}^3$	0
3	TSPM (PM10)	$\mu\text{g}/\text{m}^3$	48
REMARK	Within permissible limit		

RSPM – Respirable Suspended Particulate Matter

TSPM – Total Suspended Particulate Matter

PM10 – Particulate matter of size 10micron

True copy



[Signature]

Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1

[Signature]

ASSISTANT SCIENTIST
ASSISTANT SCIENTIST



ജില്ലാ ഓഫീസ്, ആലപ്പുഴ
കേരള സംസ്ഥാന ജലീനീകരണ നിയന്ത്രണ ബോർഡ്
KERALA STATE POLLUTION CONTROL BOARD
DISTRICT OFFICE, ALAPPUZHA

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SNV Sadhanam, New Chathanad, Head Post Office, Alappuzha - 688001

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PCB/ALP/UCE-199/09

22.09.2022

From,
Environmental Engineer

To,
M/s.Kappico Kerala Pvt.Ltd
52, Muthuttu Royal Square, DH road
Jos Junction Kochi-16

Sub:- Demolishing of M/s.Kappico Kerala Resort Pvt.Ltd at Panavally Gramapanchayath Reg.

Ref:- 1) Demolition plan received from Panavally Gramapanchayat Secretary Letter No.C-2714/22 dated on 14.09.2022
2) Letter no C-2714/22 dated 11.01.2022 of Secretary Panavally Gramapanchayath

Sir,

The demolition plan was received in this office as per vide ref.(1) above. The secretary Panavally Gramapanchayath request to suggest the control measures to be done to prevent the environmental pollution from the unit during demolition vide ref.(2)above.

Following Pollution control measures shall be provided in the demolition site to prevent the environmental pollution.

1. Construction & demolition waste need to be segregated into concrete, soil, steel, wood, plastic, brick and motor, glass, ceramic, electrical items and metallic items.
2. Enclosure of the demolition site using garden nets shall be done to prevent spreading of dust to nearby lakes.

Three copy.

Usmika

Environmental Engineer
Kerala State Pollution Control Board
District Office, Alappuzha-1



3. Suitable dust suppressor system shall be provided for containing dust generated during demolition.
4. Suitable control measures shall be provided to prevent washing out of construction waste which may lead to lake thereby contaminating the water body.

Details of C&D waste Transportation

1. The vehicle/Junkar transporting construction waste shall be fully covered to prevent spreading of dust and spillage of waste into the lakes.
2. The Vehicles shall be GPS tagged.
3. For long distance, transportation routes of C&D waste to be selected after discussion with local authorities (CPCB guidelines on environmental management of C&D waste –March, 2017).
4. 6 sites were identified in the proposal to store the removed items and the time bound disposal depending upon the nature of the item was not specified. The details of the land and its nature were not specified. Agreements with the waste collectors were not specified.
5. Details of C&D waste processing if any and mode of segregation, storage, reuse, transportation and disposal of C& D waste. The final disposal of the waste and time bound action plan for demolition and final disposal were not revealed in the demolition plan.

The demolition shall be done complying with the above norms.



Your's faithfully,

[Handwritten signature]

ENVIRONMENTAL ENGINEER

Environmental Engineer
Kerala State Pollution Control Board
District Office, Alappuzha-1

Copy to : Panavally Gramapanchayat (For necessary action)



True copy

[Handwritten signature]

Environmental Engineer
Kerala State Pollution Control Board
District Office, Alappuzha-1



ജില്ലാ ഓഫീസ്, ആലപ്പുഴ
കേരള സംസ്ഥാന ലിനീകരണ നിയന്ത്രണ ബോർഡ്
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DISTRICT OFFICE, ALAPPUZHA

എസ്.എൻ.വി.സദനം, ന്യൂ ചാത്തനാട്, ഹെഡ്സ്റ്റ് പോസ്റ്റ് ഓഫീസ്, ആലപ്പുഴ - 688001
 SNV Sadhanam, New Chathanad, Head Post Office, Alappuzha - 688001
 E-mail: alpy.pcb@gmail.com Telephone : 0477 - 2235384 web: www.keralapcb.nic.in
 ഓൺലൈനിൽ അപേക്ഷകൾ സമർപ്പിക്കുന്നതിന് www.krocmms.nic.in എന്ന വെബ്സൈറ്റ് ഉപയോഗിക്കുക.

“ഭരണഭാഷ - മാതൃഭാഷ”

In reply pls. refer to:- പി.സി.ബി./എ.എൽ.പി./യുസിഇ-199/09 15.10.2022

പ്രേഷിതൻ
 എൻവയോൺമെന്റൽ എഞ്ചിനീയർ

സ്വീകർത്താവ്
 M/s.കാപ്പികോ കേരള റിസോർട്ട്സ് പ്രൈവറ്റ് ലിമിറ്റഡ്,
 52, മുത്തൂറ്റ് റോഡ് സ്കായർ,
 DH റോഡ്,
 ജോസ് ജംഗ്ഷൻ, കൊച്ചി-16

വിഷയം: പാണാവള്ളി ഗ്രാമപഞ്ചായത്ത് പരിധിയിൽ വരുന്ന
 M/s.കാപ്പികോ കേരള റിസോർട്ട്സ് പ്രൈവറ്റ് ലിമിറ്റഡ്
 പൊളിച്ചുമാറ്റുന്നത് - സംബന്ധിച്ച്.

സൂചന: 1) 14.09.2022 ൽ ഈ കാര്യലയത്തിൽ സ്വീകരിച്ച 13.09.2022
 തീയതിയിലെ സി-2714/22 നമ്പരായുള്ള പാണാവള്ളി
 സെക്രട്ടറിയിൽ നിന്നും ലഭിച്ച ഡീമോളിഷൻ പ്ലാൻ
 സഹിതമുള്ള കത്ത്

2) 22.09.2022 തീയതിയിലെ ഈ കാര്യലയത്തിലെ ഇതേ നമ്പർ
 കത്ത്

3) 13.10.2022 തീയതിയിലെ മെമ്പർ സെക്രട്ടറിയുടെ പിസിബി/എച്ച്ഒ/
 സി&ഡി/കാപ്പികോ/2022 നമ്പർ കത്ത്

സർ,
 മേൽ സൂചന (1) പ്രകാരം M/s.കാപ്പികോ കേരള റിസോർട്ട്സ് പ്രൈവറ്റ്
 ലിമിറ്റഡ് പൊളിച്ചുമാറ്റുന്നതിന്റെ ഡീമോളിഷൻ പ്ലാൻ പാണാവള്ളി
 ഗ്രാമപഞ്ചായത്ത് സെക്രട്ടറിയിൽ നിന്നും ലഭിച്ചതിന്റെ അടിസ്ഥാനത്തിൽ
 സൂചന (2) പ്രകാരം പരിസരമലിനീകരണം തടയുന്നതിനായിട്ടുള്ള നിർദ്ദേശം
 ഈ കാര്യലയത്തിൽ നിന്നും നൽകിയിരുന്നു. ഇത് സംബന്ധിച്ച് സൂചന (3)
 പ്രകാരം ബോർഡ് മെമ്പർ സെക്രട്ടറിയിൽ നിന്നും ലഭിച്ച നിർദ്ദേശത്തിന്റെ
 അടിസ്ഥാനത്തിൽ പൊളിച്ചുമാറ്റുന്നതുമായി ബന്ധപ്പെട്ട് താഴെ പറയുന്ന
 കാര്യങ്ങൾകൂടി പാലിക്കേണ്ടതാണ് എന്നറിയിക്കുന്നു.



True copy
[Signature]
 Environmental Engineer
 Kerala State Pollution Control Board
 District Office, Alappuzha-1

1. സാഭാവിക ജലാശയങ്ങളെ ബാധിക്കാത്തവിധം പൊളിക്കൽ നടത്തേണ്ടതാണ്.

2. മാലിന്യം ജലാശയങ്ങളിലോ, പരിസര പ്രദേശങ്ങളിലോ വലിച്ചെറിയാൻ പാടുള്ളതല്ല. ജങ്കാറുകൾ ഉപയോഗിച്ച് പരമാവധി പൊളിക്കൽ മുഖേനയുള്ള മാലിന്യം ദ്വീപിൽ നിന്ന് നീക്കം ചെയ്യേണ്ടതും, പുന:രുപയോഗസാധ്യത നോക്കേണ്ടതുമാണ്.

3. മാലിന്യം നിക്ഷേപിക്കാൻ ഉദ്ദേശിച്ചിരിക്കുന്ന സ്ഥലങ്ങളിൽ പരിസ്ഥിതിക്ക് ഹാനികരമല്ലാത്ത രീതിയിൽ അവ നിർമ്മാർജ്ജനം ചെയ്യുകയും പരമാവധി മാലിന്യം പുന:രുപയോഗം അല്ലെങ്കിൽ പുന:ചംക്രമണം നടത്തുകയോ ചെയ്യേണ്ടതുമാണ്. Construction & Demolition waste കൈകാര്യം ചെയ്യുന്നതിനുള്ള 30.07.2022 തീയതിയിലെ കേരള ഗവർണ്ണറുടെ G.O.(Ms)No.168/2022/LSGD നമ്പർ ഗവൺമെന്റ് ഉത്തരവ് പ്രകാരമുള്ള Guidelines for Managing Construction & Demolition waste in Kerala കൂടി പാലിക്കേണ്ടതാണ്.

4. Demolition മാലിന്യങ്ങൾ വേർതിരിക്കുന്നതും വേർതിരിച്ചവ പുന:രുപയോഗം/പുന:ചംക്രമണം/നിർമ്മാർജ്ജനം ചെയ്യുന്നതുമായ സ്ഥലങ്ങളെക്കുറിച്ചുള്ള വിവരങ്ങൾ എത്രയും പെട്ടെന്ന് അറിയിക്കേണ്ടതും ആയത് പ്രസ്തുത സ്ഥലങ്ങളിൽ എത്തിക്കുന്നത് സംബന്ധിച്ച വിവരങ്ങൾ മുൻകൂട്ടി പഞ്ചായത്തിനെ അറിയിക്കേണ്ടതും ടി മാലിന്യങ്ങളുടെ അളവ്, കൊണ്ടുപോകുന്ന വണ്ടികൾ, എന്നിവയെ സംബന്ധിച്ച വിവരങ്ങൾ രജിസ്റ്ററിൽ സൂക്ഷിക്കേണ്ടതും ആയത് പഞ്ചായത്തിനെയും ബോർഡിനെയും സമയാസമയങ്ങളിൽ അറിയിക്കേണ്ടതുമാണ്.

വിശ്വസ്തതയോടെ,

(Handwritten signature)

എൻവയോൺമെന്റൽ എഞ്ചിനീയർ.

എൻവയോൺമെന്റൽ എഞ്ചിനീയർ
കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡ്
മിറ്റ പാലപ്പുഴ, ആലപ്പുഴ



പകർപ്പ്:

പാണാവള്ളി ഗ്രാമപഞ്ചായത്ത്
(തുടർനടപടികൾ സ്വീകരിക്കുന്നതിനുവേണ്ടി)

True copy *(Handwritten signature)*

Environmental Engineer
Kerala State Pollution Control Board
District Office, Alappuzha-1



Translation of Annexure R-8(d)

PCB/ALP/UCE-199/09

15.10.2022

From,

Environmental Engineer

To,

M/s.Kappico Kerala Resorts Pvt.Ltd,
52, Muthuttu Royal Square, DH Road,
Jos Junction, Kochi-16

Sub:- Demolishing of M/s.Kappico Kerala Resort Pvt.Ltd at Panavally
Gramapanchayath-Reg.

- Ref:- 1) Demolition plan received in this office on 14.09.2022 from Panavally
Gramapanchayat Secretary as per Letter No.C-2714/22 dated on
13.09.2022
- 2) This office letter of even no. dated 22.09.2022
- 3) Letter No.PCB/HO/C&D/KAPPICO/2022 dated 13.10.2022 received
from Member Secretary

Sir,

The Demolition plan was received in this office as per vide reference (1) above. Based on that instruction was already given to prevent environmental pollution while demolition from this office as per vide reference (2) above. As per the instructions received from Member Secretary vide reference (3) above, following pollution control measures shall be provided in the demolition site.

1. The demolition shall be conducted without affecting natural state of water bodies.
2. Demolition waste shall not be dumped into water bodies or surrounding areas. Demolition waste shall be removed from the island by junkar at its maximum extent and its recycling potential shall be checked.

3. Demolition wastes shall be disposed in the proposed site without affecting environment. Maximum wastes shall be reused or recycled in the decided sites for its disposal. Guidelines for managing construction & demolition waste in Kerala as per the Kerala Governor's order No.G.O.(Ms)No.168/2022/LSGD dated 30.07.2022 for construction and Demolition waste handling in Kerala shall be followed.
4. The details regarding the sites for segregation/reuse/recycling/disposal and the details regarding the same shall be reported urgently. The waste delivered shall be informed in advance to the concerned gramapanchayat. The details of quantity of C&D waste, the details of conveying vehicles shall be kept in registers and also inform the panchayath and board from time to time.

Yours faithfully,

Sd/

ENVIRONMENTAL ENGINEER

Copy to: Secretary,
Panavally Gramapanchayat (For further necessary action)