

H&P GRANITES

6/530, MANKADU,
KUMMIL P.O , KOLLAM DIST - 691536

PH.07559945903, 9447267121
EMAIL: HANDPGRANITES@GMAIL.COM

H&P/ENV/Compliance/2020-21/01

Date: 01.12.2020

To

1. State Environment Impact Assessment Authority (SEIAA) Kerala
K.S.R.T.C Bus Terminal Complex,
4th Floor Thampanur,
Thiruvananthapuram – 695 001
2. The Additional Principal Chief Conservator of Forests (C)
Ministry of Environment, Forests & Climate Change,
4th Floor, E & bF Wing, Kendriya Sadan,
Koramangala, Bangalore -560 034
Karnataka State

Sir,

Sub: Environment Compliance report

Please find enclosed the Six Monthly Compliance report in respect of M/s. H & P Granites (Ref. Environmental Clearance No. 1087/EC3/SEIAA/2016 dated:29.11.2017) for the period from April 2020 to September 2020 for your ready reference. It may kindly be noted that the above report have already been sent by email (seaceiaakerala@gmail.com and rosz.bng-mef@nic.in) to your respective offices for record.

Thanking you,

Yours faithfully,


FOR H&P GRANITES
(Patil Somnath Laxman)

Mines Manager

Encl: as above

COMPLIANCE REPORT

Of

M/s. H & P GRANITES

6/530, Kondody

Village: Kummil, Taluk: Kottarakara

District: Kollam, State: Kerala

For the Period 1st April 2020 to 30th September 2020

SPECIFIC CONDITIONS:

Sr.No.	Conditions	Precautions Taken
1.	The three buildings located within 100m distance of the project site as reported by the inspection team should be demolished and an affidavit to this effect should be submitted before the issuance of EC.	Three buildings are already demolished
2.	Catch water drains to be provided to channelize storm water and suitable mechanism for clarification before water is let out into the valley.	Water drains are provided in the quarry, through which water will collect in RWH Structure and the overflow of which is again collected in the settling pond, from settling pond the clean water is let out into the valley

3.	Dedicated RWH structure may be provided in the lower part to enhance water availability.	RWH Structure Provided
4.	If any rare, endemic and threatened plant species are noticed, they shall be properly protected insitu or transplanted to a suitable site inside the lease area.	If any such species found, care shall be taken to protect it

Item No.	Stipulations in EC	Status of Compliance	Remarks
G-1	Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR,	In quarrying area Rain Harvesting is implemented as all the rain water is collected in the pit.	
G-2	Environment Monitoring Cell as Agreed under the affidavit filed by the proponent should be formed and made functional.	Environment Monitoring Cell is constituted as below: 1. Mr.Patil somnath Laxman as Mines Manager 2. Mr.Mainikar Karan Mine as Foreman 3. Mr.Saneesh Mullackal as member and we are reporting to Mr. Harish G. Nair, Managing Partner	
G-3	Suitable avenue trees should be planted along either side of tarred road and open parking areas, if any, inclusive of approach road and internal roads.	Planted Trees	
G-4	Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	Solar energy likely to be extend to possible areas in Quarry	
G-5	Sprinklers shall be installed and used in the project site to contain dust emissions.	All access road to the quarry provided with automatic sprinklers and water tanker is also available	
G-6	Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.	Eco-restoration shall be done at our cost as and when necessary and also during the course of Mine Closure	
G-7	At least 10 percent out of the total excavated pit area should be retained as water storage areas and the Remaining area should be reclaimed with and overburden and planted with indigenous plant species that are eco-friendly. If, no other specific condition on reclamation of pit is stipulated in the E.C	The deep portion of the working pit and settling pond shall be kept for rain water storage which in turn will recharge the surrounding water table and the remaining area should be reclaimed with overburden and suitable indigenous plant species shall be planted	

Item No.	Stipulations in EC	Status of Compliance	Remarks
G-8	Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented in tune with the conditions specified in the Companies Act, 2013.	CSR as agreed is being implemented and the details of amount spent during this six months (April 2020 to September 2020) is enclosed for reference	
G-9	The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mining. All the boundary indicators boards, stores, markings, etc) shall be protected at all times and shall be conspicuous.	The entire lease boundary is properly fenced with Barbed wire with concrete pillars. All necessary sign boards are erected at suitable places.	
G-10	Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per Stipulations of Explosive Department	Blasting operations are always preceded after Siren only, followed by removing all machineries & persons from blasting zone. Blasting Time board is fixed at the entrance of quarry.	
G-11	Control measures on noise and vibration prescribed by KSPCB should be implemented.	Regular monitoring of Noise level is being conducted and overall noise level is kept under permitted level	
G-12	Quarrying activities should be limited to day time as per KSPCB guidelines.	Quarrying operations is restricted to day light	
G-13	Blasting should be done in a controlled manner as specified by the regulation of explosives Department or any other concerned agency.	Controlled blasting is being carried out by using Electronic delay detonators and also by restricting the number of holes blasted in a round	
G-14	A licensed person should supervise/control the blasting operations.	Mine Foreman/ Mine Mate/ Blaster (Certified by the Director General of Mines Safety) will supervise the blasting operations in the quarry	
G-15	Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials	Access roads are of interlocking bricks and are widened by same interlocking bricks & are properly maintained besides regular watering to avoid dust generation during transport of vehicles	
G-16	Overburden materials should be managed within the site and used for reclamation of mine pit as per mined closure plan/ specific conditions.	Overburden and Topsoil are placed in the designated area	

Item No.	Stipulations in EC	Status of Compliance	Status of Compliance
G-17	Height of benches should not exceed 5 m and width should not be less than 5 m.	Height and width of the benches are maintained as stipulated in EC document	
G-18	Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.	Blasting mats are provided wherever necessary to avoid fly rocks	
G-19	Maximum depth of mining from general ground level at site shall not exceed 10m.	Since the quarry recently started it is within stipulated depth	
G-20	No mining operations should be carried out at places having a slope greater than 45°.	Mining operations are carried out as per the Approved Mining Plan	
G-21	Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.	Thick vegetation of trees and total covering of the crusher is done to suppress sound amplifications.	
G-22	The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.	All workers are provided with personal protective equipments such as Helmet, safety shoes and other items as prescribed by DGMS	
G-23	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.	Quarry area is provided with garland drains so that all storm water is diverted in the pit and from there it is diverted to settling pond. Other areas are provided with drains to divert the water to the main drainage.	
G-24	The transportation of minerals should be done in covered trucks to contain dust emissions.	Water is sprinkled on the loaded trucks with pipe and Transportation trucks are provided with thick tarpaulin covers to avoid dust problem	
G-25	The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.	All the areas other than the quarry operational are provided with thick plantation.	

Item No.	Stipulations in EC	Status of Compliance	Remarks
G-26	Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.	Spent/burnt oil released from machinery/vehicles are disposed in a specified manner of State Pollution Control Board	
G-27	Explosives should be stored in magazines in isolated place specified and approved by Explosive Dept.	Approved Explosive Magazine is located in the isolated place and all explosive material is kept in Magazine.	
G-28	A Minimum buffer distance of 100 m from the boundary of the quarry to the nearest dwelling unit or other structure , not being any facility for mining shall be provided	A clear 100 meters buffer zone is maintained all along the lease boundary	
G-29	100 m buffer distance should be maintained from forest boundaries.	-Not applicable-	
G-30	Consent from Kerala State Pollution, Control Board under Water and Air (Acts) should have been obtained before initiating mining activity.	Consent from Kerala State Pollution Control Board under Air and Water Act is obtained and is valid till 28/11/2022	
G-31	All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.	Petroleum & Explosives Safety Organisation (PESO) Formerly-Department of Explosives has given license for use of Explosives from magazine	

Item No.	Stipulations in EC	Status of Compliance	Remarks
G-32	<p>In the case of any change in the scope of the project, extent quantity, process of mining technology involved or in any way affecting the environmental parameters/ impacts as assessed, based on which only the E.C is issued. The projects would require a fresh appraisal by this authority, for which the proponent shall apply and get the approval of the Authority</p>	<p>Planning to change the scope and approached SEIAA for approval</p>	
G-33	<p>The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act,1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.</p>	<p>Any additional safeguard measures issued shall be followed and implemented</p>	
G-34	<p>The stipulations by Statutory Authorities under different Acts and Notifications should be complied with including the provisions of 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, 2006.</p>	<p>All stipulations are being complied with</p>	

Item No.	Stipulations in EC	Status of Compliance	Remarks
G-35	<p>The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Department of Environment and Climate Change, Govt. of Kerala and may also be seen on the website of the Authority at www.seiaakerala.org. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.</p>	<p>-Complied with -</p>	
G-36	<p>A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayat/ District Municipality/Corporation/Urban Local Body and also to the Local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The Environmental clearance shall also be put on the website of the company by the proponent.</p>	<p>Environment Clearance letter along with the conditions stipulated is submitted to Village panchayat.</p>	

Item No.	Stipulations in EC	Status of Compliance	Remark
G-37	<p>The proponent shall submit half yearly reports on the status of compliance of the stipulated EC</p> <p>Conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the Status of compliance of the stipulated EC conditions, including results of monitored data on their website. It shall Sent to the Regional office of MoEF., Govt. of India and also to the STATE Environment Impact Assessment Authority (SEIAA) Office</p>	<p>Compliance reports being sent to SEIAA –Kerala Office and Regional office of MoEF –Bangalore</p>	
G-38	<p>The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft. x 3 ft. with green background and yellow letters of Times New Roman font of size of not less than 40. Signboard with extent of lease area and boundaries shall be depicted at the entrance of quarry, visible to the public</p>	<p>Details are displayed in front of Office</p>	
G-39	<p>The proponent should provide notarized affidavit (indicating number and date of environmental clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed</p>	<p>-Complied-</p>	
G-40	<p>No change in mining technology and scope of working should be made without prior approval of the SIEAA, No further expansion or modification in the mine shall be carried out without prior approval of the SIEAA, as applicable.</p>	<p>-Shall be complied-</p>	
G-41	<p>Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended places loading and unloading points & transfer point to reduce fugitive emissions.</p>	<p>Monitoring of Ambient Air Quality is being carried out regularly and results are enclosed</p>	

Item No.	Stipulations in EC	Status of Compliance	Remark
G-42	<p>Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended places loading and unloading points & transfer point to reduce fugitive emissions.</p>	<p>Monitoring of Ambient Air Quality for fugitive emissions is being carried out regularly</p>	
G-43	<p>The Top soil, if any, shall temporarily to be stored at earmarked sites, only. For the topsoil shall be used for land reclamation and plantation. The over burden generated during the mining operations shall be stacked at earmarked dump site only. the maximum height of the dumps shall not exceed 8 m and width 20m and overall slope of the dumps shall be maintained to 45%. the OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.</p>	<p>Topsoil is stored separately and will be using during plantation. Dump is maintained as per the Approved Mining Plan</p>	
G-44	<p>Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilizing for watering the mine area. Roads, green belt development t etc. the drains shall be regularly desilted particularly after monsoon and maintained properly.</p>	<p>Catch drains and siltation ponds are provided to arrest the eroded material</p>	

Item No.	Stipulations in EC	Status of Compliance	Remark
G-45	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM ₁₀ and PM _{2.5} such as haul road, Loading and unloading points and transfer points-it shall be ensured that the ambient air quality parameters conform to the norms prescribed by the central pollution control board in this regard.	Two water tanker of 10 K capacity is kept in quarry area and water is sprinkled on regular basis	
G-46	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained	Haul roads and transfer points are regularly watered to avoid dust generation	
G-47	Measures should be taken for control of noise levels below 85 dBA in work environment.	Proper maintenance of machineries/vehicles are practiced to minimize the noise levels	
G-48	A separate environmental management cell with suitable qualified personal should be set-up under the control of a senior Executive, who will report directly to the head of the organization.	Environmental Management cell is constituted under the Mines Manager who will report directly to the Managing partner	
G-49	The funds earmarked for environmental protection measures and CSR activate should be kept in separate account and should be reported to the state environment authority(SEIAA) office	The funds are provided as and when required for CSR activities maintaining of separate account shall be done in due course	
G-50	The Regional Office of MOEF&CC Located at Bangalore shall extend full cooperation to the officer (S) of the Regional Office by furnishing the requisite data /information /monitoring reports	-Shall be complied-	
G-51	Any appeal against this Environmental Clearance shall lie with the National Green Tribunal , if preferred ,within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act ,2010	-Will comply with any outcome of NGT	

Item No.	Stipulations in EC	Status of Compliance	Remark
G-52	Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of the this clearance and attract action under the provisions of Environment (protection)Act,1986	No data is concealed and no false/fabricated data is furnished to the authority as per our knowledge and belief	
G-53	The SEIAA may revoke or suspend the order, for on implementation of any of the specific or this implementation of any of the above conditions is not satisfactory .The SEIAA reserves the right to alter /modify the above conditions or stipulate any further conditions in the interest of environment protection.	Will accept is case of any such violations of the provision of EC	
G-54	The above conditions shall prevail not withstanding anything to the contrary in consistent ,or simplified, contained in any other permit, license on consent given by other authority for the same project .	-Not applicable-	
G-55	This order is valid for a period of 5 years or the expiry date of mine lease period issued by the Government of Kerala whichever is earlier.	-Accepted-	
G-56	The Environmental Clearance will be subject to the final Order of the courts of the in any pending litigation related to the land or project, in any court of law.	-Will abide by the verdict -	
G-57	The mining operation shall be restricted to above ground water table and it should not intersect ground water table.	The mining activities are restricted to the area of above general ground water table and will not intersect Ground water table	

G-58	All vehicles used for transportation and within the mines shall have PUC certificate from authorized pollution talking Centre .washing of all vehicles shall be inside the lease area .	This is being strictly implemented	
G-59	Project proponent should obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and ground water for the project.	Shall be obtained whenever necessary	
G-60	Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly reports to SEIAA.	There is no stream in and around Lease area	
G-61	Occupational health surveillance program of the workers should be under taken periodically to observe any contractions due to exposure to dust and corrective measures, if needed.	Occupational health surveillance will be carried out.	



FOR H&P GRANITES

(Patil Somnath Laxman)

Mines Manager

ANNEXURE-1

M/s. H & P GRANITES

6/530, Kondody, Kummil. P.O,

Kottarakkara Taluk

Kollam District

Tel. No. +91 9447267121

**DETAILS OF EXPENDITURE UNDER CORPORATE SOCIAL RESPONSIBILITY FROM
APRIL 2020 to SEPTEMBER 2020**

SR. NO.	DATE	PARTICULARS	AMOUNT	REMARKS
1	13.04.2020	SREE AYIRAVALLY MAHADEVA TEMPLE	3000	
2	15.05.2020	SREE AYIRAVALLY MAHADEVA TEMPLE	3000	
3	14.06.2020	SREE AYIRAVALLY MAHADEVA TEMPLE	3000	
4	16.06.2020	AKHILA BHARATH HINDU MMAHASABA	1500	
5	17.06.2020	3 LCD DONATED TO POOR FAMILY IN KUMMIL PANCHAYATH C/O PRESIDENT(EDUCATIONAL PURPOSE)	18000	
6	17.06.2020	1 LCD DONATED TO POOR FAMILY IN KUMMIL PANCHAYATH C/O MLA (EDUCATIONAL PURPOSE)	6000	
7	22.06.2020	MANNANIYA BANATH YATHEEM KHANA	50000	
8.	01.07.2020	RAMARASSERI SREE ARDHANAREESHWARA SHETHRA TRUST	500	
9	15.07.2020	SREE AYIRAVALLY MAHADEVA TEMPLE	5000	
10	17.08.2020	SREE AYIRAVALLY MAHADEVA TEMPLE	3000	
11	22.08.2020	SREE AYIRAVALLY MAHADEVA TEMPLE	1000	
12	26.08.2020	ARPPITHA CHARITABLE TRUST	1000	
13	27.08.2020	JANAYUGAM	15000	
14	16.09.2020	SREE AYIRAVALLY MAHADEVA TEMPLE	3000	
15		WATER SUPPLY TO KUMMIL VILLAGE	324000	
		TOTAL	4,37,000	

Financial assistance extended to the house owners for repair & renovation of their houses around quarry area (Non-Recurring)

SR. NO.	PARTICULARS	APROX. AMOUNT IN RS.	VILLAGE
1.	DYFI Kumil	13440	Kummil
2.	Kummil Temple(310cft Dust)	10400	Kummil
3.	Nasim Kummil	1600	Kummil
4.	Moosa Kummil (47cft Dust)	1500	Kummil
5.	Biju Thulasimukku (140cftDust)	4480	Thulasimukku
6.	Aju Kaddakkal (145cft Dust)	4640	Kaddakkal
7.	Rajesh Nadapara 100cftGSB	2500	Nadapara
8.	Manoj Member (146cft Dust)	4900	Chithara
9.	Navas Kummil (140cft Dust)	3500	Kummil
10.	Sunesh Kummil (90cft Dust)	2780	Kummil
11.	Shahitha Kummil (55cft Dust)	1750	Kummil
12.	Manoj Member Chithara (170cft GSB)	8500	Chithara
13.	Anil Member Chithara (193cft 20mm)	6485	Chithara
14.	Murali Kummil(35cft 20mm & 35cft dust)	2240	Kummil
TOTAL		68,715	


FOR H&P GRANITES
(Patil Somnath Laxman)
Mines Manager

TEST REPORT

ULR No:TC540220000001612F	Date: 25.08.2020	Page 1 of 2
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CUSTOMER DETAILS			
Customer Details	Name & Address	M/s H&P Granites 6/530, Kondody, Kummil P.O, Kottarakkara, Kollam District.	
Location of Site	Re Survey No	462/01, 462/01-02, & Others (Patta Land) 464,465/03 & Others (Govt.Land)	
	Village	Kummil	
	Taluk	Kottarakkara	
	District	Kollam	
	State	Kerala	
Customer Reference	Test Request form dated 22.08.2020		
SAMPLE DETAILS			
Sample Code	WT20080008	Sample Received on	22.08.2020
Sample Name	Water	Sampling Procedure	---
Sample Description	Open Well	Sampling Location	Near to Project Site
Identification by Customer	---	Sample Condition	Fit for Analysis
Sampled on	---	Test Started on	22.08.2020
Sampled by	Customer	Test Completed on	25.08.2020

SL NO	TEST PARAMETER	TEST METHOD	UNITS	RESULT	ACCEPTABLE LIMIT (IS 10500 - 2012)
01	Colour	IS 3025 Part 4:1983 RA 2017	Hazen	1.00	5.00 (Max)
02	Odour	IS 3025 Part 5:2018	---	Agreeable	Agreeable
03	Turbidity	IS 3025 Part 10:1984 RA 2017	NTU	1.20	1.00 (Max)
04	pH	IS 3025 Part 11:1983 RA 2017	---	4.86	6.50 - 8.50
05	Conductivity	IS 3025 Part 14:1984 RA 2019	µS/cm	211	---
06	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	137	500 (Max)
07	Total Hardness (as CaCO ₃)	IS 3025 Part 21:2009 RA 2019	mg/L	54.0	200 (Max)
08	Calcium (as Ca)	IS 3025 Part 40:1991 RA 2019	mg/L	16.8	75.0 (Max)
09	Magnesium (as Mg)	IS 3025 Part 46:1994 RA 2019	mg/L	2.92	30.0 (Max)
10	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2019	mg/L	11.8	250 (Max)
11	Total Alkalinity (as CaCO ₃)	IS 3025 Part 23:1986 RA 2019	mg/L	< 1.00	200 (Max)
12	Iron (as Fe)	IS 3025 Part 53:2003 RA 2019	mg/L	0.12	1.00 (Max)
13	Sulphate (SO ₄)	IS 3025 Part 24:1986 RA 2019	mg/L	55.3	200 (Max)
14	Nitrate (as NO ₃)	APHA 23 rd Edition 4500-NO3 B 2017	mg/L	3.30	45.0 (Max)
15	Phosphate as (PO ₄)	IS 3025 Part 31:1988 RA 2014	mg/L	< 0.10	---
16	Fluoride (as F)	APHA 23 rd Edition 4500-F- B D. 2017	mg/L	0.27	1.00 (Max)
17	Cadmium (as Cd)	IS 3025 Part 41:1992 RA 2014	mg/L	< 0.003	0.003 (Max)

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.

Standard^S Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB

K.J. Tower, Pathalam, Udyogarthandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43
Web: www.seatabs.in, E-mail: seatab@gmail.com

TEST REPORT

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18	Total Chromium (as Cr)	IS 3025 Part 52: 2003 RA 2014	mg/L	< 0.05	0.05 (Max)
19	Copper (as Cu)	IS 3025 Part 42:1992 RA 2014	mg/L	< 0.05	0.05 (Max)
20	Lead (as Pb)	IS 3025 Part 47: 1994 RA 2014	mg/L	< 0.01	0.01 (Max)
21	Manganese (as Mn)	IS 3025 Part 59: 2006 RA 2017	mg/L	< 0.05	0.10 (Max)
22	Zinc (as Zn)	IS 3025 Part 49: 1994 RA 2014	mg/L	< 0.025	5.00 (Max)
23	Total Suspended Solids	IS 3025 Part 17: 1984 RA 2017	mg/L	4.20	---
24	Total Coliform Bacteria	IS 15185 : 2016	---	Absent/100 ml	Absent/100 ml
25	E coli	IS 15185 : 2016	---	Absent/100 ml	Absent/100 ml

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories



Authorized Signatory

Saini T. S.
Microbiologist

Authorized Signatory

Laiju P. N.
Laboratory Head

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.

Standard^S Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB

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TEST REPORT

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CUSTOMER DETAILS			
Customer Details	Name & Address	M/s H&P Granites 6/530, Kondody, Kummil P.O, Kottarakkara, Kollam District.	
Location of Site	Re Survey No	462/01, 462/01-02, & Others (Patta Land) 464,465/03 & Others (Govt.Land)	
	Village	Kummil	
	Taluk	Kottarakkara	
	District	Kollam	
	State	Kerala	
Customer Reference	Test Request form dated 22.08.2020		
SAMPLE DETAILS			
Sample Code	WT20080009	Sample Received on	22.08.2020
Sample Name	Water	Sampling Procedure	---
Sample Description	Surface Water	Sampling Location	Chittar River
Identification by Customer	---	Sample Condition	Fit for Analysis
Sampled on	---	Test Started on	22.08.2020
Sampled by	Customer	Test Completed on	25.08.2020

SL NO	TEST PARAMETER	TEST METHOD	UNI'TS	RESULT	ACCEPTABLE LIMIT (IS 10500 - 2012)
01	Colour	IS 3025 Part 4:1983 RA 2017	Hazen	1.00	5.00 (Max)
02	Odour	IS 3025 Part 5:2018	---	Agreeable	Agreeable
03	Turbidity	IS 3025 Part 10:1984 RA 2017	NTU	1.50	1.00 (Max)
04	pH	IS 3025 Part 11:1983 RA 2017	---	6.48	6.50 - 8.50
05	Conductivity	IS 3025 Part 14:1984 RA 2019	µS/cm	230	---
06	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	149	500 (Max)
07	Total Hardness (as CaCO ₃)	IS 3025 Part 21:2009 RA 2019	mg/L	66.0	200 (Max)
08	Calcium (as Ca)	IS 3025 Part 40:1991 RA 2019	mg/L	20.8	75.0 (Max)
09	Magnesium (as Mg)	IS 3025 Part 46:1994 RA 2019	mg/L	3.41	30.0 (Max)
10	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2019	mg/L	5.91	250 (Max)
11	Total Alkalinity (as CaCO ₃)	IS 3025 Part 23:1986 RA 2019	mg/L	13.9	200 (Max)
12	Iron (as Fe)	IS 3025 Part 53:2003 RA 2019	mg/L	0.35	1.00 (Max)
13	Sulphate (SO ₄)	IS 3025 Part 24:1986 RA 2019	mg/L	59.4	200 (Max)
14	Nitrate (as NO ₃)	APHA 23 rd Edition 4500-NO3 B 2017	mg/L	4.32	45.0 (Max)
15	Phosphate as (PO ₄)	IS 3025 Part 31:1988 RA 2014	mg/L	< 0.10	---
16	Fluoride (as F)	APHA 23 rd Edition 4500-F B D 2017	mg/L	0.32	1.00 (Max)
17	Cadmium (as Cd)	IS 3025 Part 41:1992 RA 2014	mg/L	< 0.003	0.003 (Max)

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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TEST REPORT

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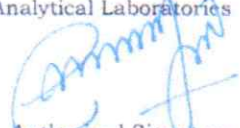
18	Total Chromium (as Cr)	IS 3025 Part 52: 2003 RA 2014	mg/L	< 0.05	0.05 (Max)
19	Copper (as Cu)	IS 3025 Part 42:1992 RA 2014	mg/L	< 0.05	0.05 (Max)
20	Lead (as Pb)	IS 3025 Part 47: 1994 RA 2014	mg/L	< 0.01	0.01 (Max)
21	Manganese (as Mn)	IS 3025 Part 59: 2006 RA 2017	mg/L	< 0.05	0.10 (Max)
22	Zinc (as Zn)	IS 3025 Part 49: 1994 RA 2014	mg/L	< 0.025	5.00 (Max)
23	Total Suspended Solids	IS 3025 Part 17: 1984 RA 2017	mg/L	7.00	---
24	Total Coliform Bacteria	IS 15185 : 2016	---	Present/100 ml	Absent/100 ml
25	E coli	IS 15185 : 2016	---	Absent/100 ml	Absent/100 ml

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories




Authorized Signatory
Salini T. S.
Microbiologist


Authorized Signatory
Laiju P. N.
Laboratory Head

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