

# **HALF YEARLY COMPLIANCE REPORT FOR PROPOSED REDSIDENTIAL PROJECT OF JOYALUKKAS ATVAZHAKALA**

**June 2015**

**EC NO: 21/SEIAA/KL/87/2012 dated 14-11-2012**



**Joyalukkas**  
Lifestyle developers

*A&B Peevees Triton Marine Drive, Kochi Kerala-682 301*



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**REDSIDENTIAL PROJECT OF JOYALUKKAS**  
**STATUS OF COMPLIANCE TO THE CONDITIONS MADE WHILE GRANTING**  
**ENVIRONMENTAL CLEARANCE**

**1. Introduction**

It is proposed to develop a residential project at Vazhakala village, Kanayunnur Taluk ,Ernakulam District ,Kerala in Re-Sy.No 42/1,Block No.9 by M/s. Joy Alukkas Lifestyle Developers (Private) Limited which is a private company having its correspondence office at Peeves Triton, Marine Drive, Kochi, Kerala-682 031. The company purchased the land for the construction in the name of Joy Alukkas in the year August, 2003 .The project site fall within Thrikakkara Municipality and the land use in conformity with the CPD of Kochi.

The project was accorded Environmental clearance by State Level Environmental Impact Assessment Authority (SEIAA), Kerala vide letter NO: 21/SEIAA/KL/871/2012 dated 14<sup>th</sup> November, 2012. The conditions lay out while granting the clearance along with the compliance to the same is followed. Presently the construction of basement floors is going on.



**Table 1. Status of Compliance to the Conditions made while granting Environmental Clearance**

Sl.No	Condition	Compliance
<b>A. Specific Conditions</b>		
1	Assurance that the Place left in the front region of the project site as shown in the drawing is a 'purambokku' land between the road and the property of the proponent and that it shall not be encroached at any later stage.	'Purambokku' land between the road and the property of the proponent, left in the front region of the project site has not encroached by the proponent. In future also there won't be any encroachment.
2	Fencing should be done all around the tower line	A permanent fencing is provided around the tower line in accordance with KSEB norms and the photographs of the same is attached as <b>Annexure I</b> . The sanction for the construction near 110Kv tower line is obtained from KSEB and the same is attached as <b>Annexure II</b> .
<b>B. General Conditions</b>		
1	Rain water harvesting to collect and utilize the entire water falling in land area should be provided.	A roof top rain water harvesting facility is envisaged for the project. The provision for the collection of rainwater is proposed at the basement as well as at the roof top of the proposed building. The construction of the tank at the basement is almost over. Also a provision will be made for the Filtration and Disinfection of this collected water.
2	Environmental Monitoring Cell	Environmental Monitoring Cell had already constituted and it is working with full fledge.



Sl.No	Condition	Compliance
	should be formed and made functional.	The detail of the Cell is presented in <b>Annexure III</b> for reference.
3	Suitable avenue trees should be planted along either side of the tarred road and parking areas, if any.	Avenue trees will be planted along either side of the tarred road and parking areas. The landscape map and list of species have been already proposed during the first compliance and is presented as <b>Annexure IV</b> for reference.
4	The project may incorporate devices of solar energy generation and utilization wherever possible.	A 20 kWp solar power plant is integrated in the project design and would be developed and implemented as part of the project accordingly.
5	In case of any change in the scope of the project ,the project would require a fresh appraisal by this authority	The scope of the work is slightly modified and the new modification is informed to SEIAA wide letter No JLD/GT/EE/005/2014-15 dated 13-06-2014.A copy of the letter is attached as <b>Annexure V</b>
6	The authority reserves the right to add the additional safeguard measures subsequently , if found necessary ,and to take the action including revoking of the environmental clearance under the	Project proponent will comply with any additional conditions or modifications of existing conditions up to the satisfaction of SEIAA.



Sl.No	Condition	Compliance
	provisions of Environmental (protection) Act,1986, to ensure effective implementation of the suggested safe guard measure in the time bound and satisfactory manner	
7	All other statutory clearances shall be obtained , as applicable , by the project proponent\s from the respective competent authorities	<p>All statutory clearances applicable to the project, was already obtained at the time of first half yearly compliance and are annexed as follows :</p> <p>Building permit obtained from Thrikkakara municipality in <b>Annexure VI</b> for reference.</p> <p>No objection certificate from Fire and Rescue Service head quarters, Trivandrum in <b>Annexure VII</b> for reference.</p>
8	The stipulation by statutory authorities under different Acts and notifications be complied with , including the provision of Water (prevention and control of pollution ) Act ,1974 ,the Air (prevention and control of	The Consent to Establish from KSPCB is obtained and attached as <b>Annexure VIII</b> .



Sl.No	Condition	Compliance
	pollution) Act 1981,the Environmental (protection )Act ,1986, the public Liability (Insurance)Act,1991 and EIA notification ,2006	
9	The project proponent should advertise at least two local news papers widely circulated in the region ,one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and the copies of the clearance letter 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 <a href="http://www.seiaakerala.org">www.seiaakerala.org</a> .The	Joy Alukkas has already advertised in two local news papers and the copy of the same is presented as <b>Annexure IX</b> for reference.  The copy of the advertisement is being forwarded to the office of SEIAA vide nil letter number dated 26.03.2013. The copy of the communication is presented as <b>Annexure X</b> .



Sl.No	Condition	Compliance
	advertisement should be made within 10 days from the date of recipient of the clearance letter and a copy of the same should be forwarded to the office of this authority as conformation.	
10	A copy of the clearance letter shall be sent by the proponent to concerned municipality and also the local NGO, if any from whom suggestions / representations, if any were received while processing the proposal .The clearance letter shall also be put on the website of the company by the proponent.	<p>Proponent has already sent a copy of the clearance letter to concerned municipality and the copy of the communication made is attached in <b>Annexure XI</b>.</p> <p>The clearance letter as well as the compliance status is already available in the website of the company through the link: <a href="http://www.joyalukkaslifestyledevelopers.com/">http://www.joyalukkaslifestyledevelopers.com/</a>. A copy of the web display is presented as <b>Annexure XII</b> for reference.</p>
11	The proponent shall submit six monthly report on compliance of the stipulated EC conditions	The half yearly compliance report shall be submitted both in hard and soft copies and the details of compliance including monitoring results shall be uploaded in the company website. The copy of the same shall also be submitted to Director of Environment and



Sl.No	Condition	Compliance
	including the results of monitored data (both in hard copies as well as by e-mail) upload the status of compliance of the stipulated EC conditions, including the results of monitored data on their website and shall upload the same periodically .It shall simultaneously be sent to the Directorate of Environment and Climate Change,Govt.of Kerala.	Climate Change, Kerala. The results of Environmental monitoring is attached with this report as <b>Annexure XIII</b> .
12	The proponent should provide affidavit that all the conditions stipulated in the EC shall be scrupulously followed.	The copy of the affidavit produced by the proponent is attached in <b>Annexure XIV</b> for reference.



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## **ANNEXURE I**

**Photographs of the permanent fencing provided around the  
tower line in accordance with KSEB norms**







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## **ANNEXURE II**

**Order No. T6-13956/14/EIE dated 29/09/14**





Government of Kerala  
Department of Electrical Inspectorate  
**Office of the Deputy Chief Electrical Inspector**  
Thoppil Estate, Vyttila P.O., Kochi-19  
Phone :- 0484-2307309 Email:- dycelkem@cei.kerala.gov.in



**Proceedings of the  
Deputy Chief Electrical Inspector, Ernakulam  
(Present:- K.P Raghavan)**

**Subject:-** Construction of a residential building near 110 kV Kalamassery-Vyttila feeder between locations 25 and 26 in Sy. No. 42/1 in Vazhakkala village by M/s Joy Alukkas, Life Style Developers Pvt. Ltd., Vazhakkala, Ernakulam - orders issued - reg:-

**Read:-** 1. Letter No. DB-09/LMSDK/14-15/183 received on 16/09/14 of the Assistant Executive Engineer, LMSD, Kalamassery  
2. Circular No. B1 / 19701 / 2010 / CEI Dated 21 / 01 / 2011  
3. Inspection conducted on 26/09/14

**Order No. T6-13956/14/EIE dated 29/09/14**

Sanction is hereby accorded under Regulation 63 of CEA (Measures relating to Safety and Electric Supply) Regulations, 2010 for the construction of a residential building near 110 kV Kalamassery-Vyttila feeder between locations 25 and 26 in Sy. No. 42/1 in Vazhakkala village by M/s Joy Alukkas, Life Style Developers Pvt. Ltd., Vazhakkala, Ernakulam and as per the drawing countersigned by the Assistant Executive Engineer, LMSD, Kalamassery and approved by the undersigned subject to the following conditions:

1. The construction of the building should be strictly as per the approved drawing.
2. Statutory horizontal / vertical clearance should not be fouled during and after the construction of the building.
3. Erection of temporary structure, scaffolding etc. shall not infringe the clearance noted in the drawing.
4. Transport of construction and other materials, movement of workers in the vicinity of power line and handling of iron rods, pipes and other similar materials on the top of the building should be done very carefully with efficient supervision and observing necessary safety precautions.
5. Workers engaged for the construction should be made fully aware of the danger involved due to the energized power line near the building construction.
6. T.V. antenna or similar structure should not be erected on the building fouling the statutory clearance from the line.
7. Violation of regulations 61 & 64 CEA (Measures relating to Safety and Electric Supply) Regulations, 2010 should not be resulted during and after the construction of the building.
8. All the conditions stipulated by the Local Authorities should be complied with.
9. Any alteration or modification from the approved drawing shall be done only with prior written sanction from this office.
10. This department will not in anyway be responsible for any contingencies occurring due to snapping/sagging of over head lines and violation of relevant regulations subsequently.
11. This sanction is subject to disallowance or revision by the State Govt as per Regulation 116 of CEA (Measures Relating Safety and Electric Supply) Regulations 2010.



*K.P. Raghavan*  
**Deputy Chief Electrical Inspector**

**To**  
M/s Joy Alukkas,  
Life Style Developers Pvt. Ltd., Vazhakkala, Ernakulam

**Copy to:**

1. The Chief Electrical Inspector, Thiruvananthapuram.
2. The Assistant Executive Engineer, LMSD, Kalamassery
3. The Secretary, Thiruvananthapuram Municipality
4. Stock File

Case No. 16728

2.10.14-7.5



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## **ANNEXURE III**

### **Environmental monitoring cell details**



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## **ENVIRONMENTAL MONITORING CELL**

### **1.1 General**

As per the project schedule the project execution is through PMC. All the environmental practices is being implemented through PMC and will be monitored by the project proponent. A permanent organizational set up is formed to ensure the effective implementation of mitigation measures and to conduct environmental monitoring.

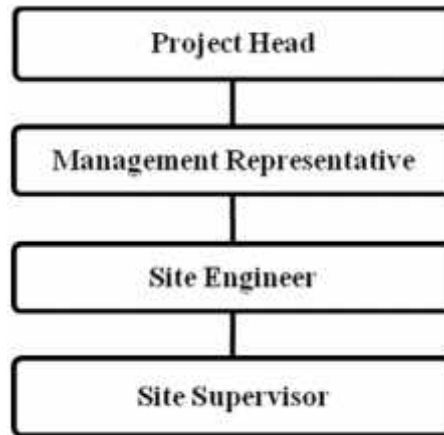
The major duties and responsibilities of Environmental Management Cell are as follows:

- To implement the environmental management plan,
- To assure regulatory compliance with all relevant rules and regulations.
- To minimize environmental impacts of operations by strict adherence to the EMP.
- To initiate environmental monitoring as per approved schedule.
- Review and interpretation of monitored results and corrective measures in case monitored results are above the specified limit.
- Maintain environmental related records.
- Coordination with regulatory agencies, external consultants and monitoring laboratories.
- Maintaining log of public complaints and the action taken.



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## 1.2 EMC structure



## 1.3 The roles and responsibilities of each of the EMC officer

### 1.3.1 Project Head –Mr. Roy James

Project Head will be the head of the Environment Management Cell and perform the following tasks:

- In-charge of EMC and will be reporting to the Executive Director, M/S Joy Alukkas about the functioning of the EMC and routinely update on the progress.
  - Submit all regulatory compliance documents to concerned authority
  - Planning and execution of environmental monitoring.
  - Review of the report submitted by the monitoring agency, checking -the compliance of the results with respect to the baseline environmental conditions and also with the relevant standard.
  - Interact with the Environmental agencies, Health department and Fire services as and when required.
  - Responsible for ensuring smooth functioning of the EMC and sort out any issues whenever it arises.
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### **1.3.2 Management Representative – Mr. Vipin Radhakrishnan**

Management Representative shall be directly reporting to Project Head.

Management Representative's responsibilities will be

- Verify the reports submitted by Site Engineer of PMC.
- Make frequent site visit to the construction site and observe that good construction management practices are being followed.
- Ensure that the conditions laid out while granting the environmental clearance are strictly followed by PMC.
- Responsible for regular execution of the compliance report and reports to the head of the project regarding the reports of site engineer and about the status of environmental practices in the site.

### **1.3.3 Site Engineer – Mrs. Bindu shaji**

Site Engineer of PMC shall be directly reporting to Management representative of project proponent.

Site Engineer's responsibilities will be monitoring of successful Implementation of

- Project activities with due consideration on not polluting the environmental conditions of in and around project site.
  - Proper Water supply and sanitation facilities during construction phase
  - Safe construction practices.
  - Landscaping as per the landscape development plan.
  - Sewage treatment Plant is being planned and executed as per the provisions.
  - Preparation of monthly progress report on progress of activities and the environmental safeguards adopted.
  - Assess the training requirements as suggested by Site Supervisor and execute as per the requirement.
  - Ensure that all complaints are duly addressed and verified and actions taken accordingly in site.
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#### **1.3.4 Site Supervisor – Mr. Mohammed Saleem**

Site supervisor and reporting to the Site Engineer of PMC and is responsible for execution of project activities such that

- Project activities with due consideration on not polluting the environmental conditions of in and around project site.
- Ensure adequate water supply and sanitation facilities during construction phase
- Safety aspects are duly followed.
- Landscaping as per the landscape development plan.
- Maintain log on the compliance made on the conditions laid out while granting EC
- Report the training requirements of the PMC and report to Site Engineer.
- Maintaining log of public complaints and the action taken.



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**ANNEXURE IV**

**Landscape map of the proposed project**



# LANDSCAPE PLAN



## SCHEDULE OF TREES

Sl. No.	Code	Botanical Name	Common Name	Qty (Nos)
1	A	Acacia robusta	Acacia robusta	10
2	B	Albizia lebbekii	Albizia lebbekii	10
3	C	Albizia lebbekii	Albizia lebbekii	10
4	D	Albizia lebbekii	Albizia lebbekii	10
5	E	Albizia lebbekii	Albizia lebbekii	10
6	F	Albizia lebbekii	Albizia lebbekii	10
7	G	Albizia lebbekii	Albizia lebbekii	10
8	H	Albizia lebbekii	Albizia lebbekii	10
9	I	Albizia lebbekii	Albizia lebbekii	10
10	J	Albizia lebbekii	Albizia lebbekii	10
11	K	Albizia lebbekii	Albizia lebbekii	10
12	L	Albizia lebbekii	Albizia lebbekii	10
13	M	Albizia lebbekii	Albizia lebbekii	10
14	N	Albizia lebbekii	Albizia lebbekii	10
15	O	Albizia lebbekii	Albizia lebbekii	10
16	P	Albizia lebbekii	Albizia lebbekii	10
17	Q	Albizia lebbekii	Albizia lebbekii	10
18	R	Albizia lebbekii	Albizia lebbekii	10
19	S	Albizia lebbekii	Albizia lebbekii	10
20	T	Albizia lebbekii	Albizia lebbekii	10
21	U	Albizia lebbekii	Albizia lebbekii	10
22	V	Albizia lebbekii	Albizia lebbekii	10
23	W	Albizia lebbekii	Albizia lebbekii	10
24	X	Albizia lebbekii	Albizia lebbekii	10
25	Y	Albizia lebbekii	Albizia lebbekii	10
26	Z	Albizia lebbekii	Albizia lebbekii	10
27	AA	Albizia lebbekii	Albizia lebbekii	10
28	AB	Albizia lebbekii	Albizia lebbekii	10
29	AC	Albizia lebbekii	Albizia lebbekii	10
30	AD	Albizia lebbekii	Albizia lebbekii	10
31	AE	Albizia lebbekii	Albizia lebbekii	10
32	AF	Albizia lebbekii	Albizia lebbekii	10
33	AG	Albizia lebbekii	Albizia lebbekii	10
34	AH	Albizia lebbekii	Albizia lebbekii	10
35	AI	Albizia lebbekii	Albizia lebbekii	10
36	AJ	Albizia lebbekii	Albizia lebbekii	10
37	AK	Albizia lebbekii	Albizia lebbekii	10
38	AL	Albizia lebbekii	Albizia lebbekii	10
39	AM	Albizia lebbekii	Albizia lebbekii	10
40	AN	Albizia lebbekii	Albizia lebbekii	10
41	AO	Albizia lebbekii	Albizia lebbekii	10
42	AP	Albizia lebbekii	Albizia lebbekii	10
43	AQ	Albizia lebbekii	Albizia lebbekii	10
44	AR	Albizia lebbekii	Albizia lebbekii	10
45	AS	Albizia lebbekii	Albizia lebbekii	10
46	AT	Albizia lebbekii	Albizia lebbekii	10
47	AU	Albizia lebbekii	Albizia lebbekii	10
48	AV	Albizia lebbekii	Albizia lebbekii	10
49	AW	Albizia lebbekii	Albizia lebbekii	10
50	AX	Albizia lebbekii	Albizia lebbekii	10
51	AY	Albizia lebbekii	Albizia lebbekii	10
52	AZ	Albizia lebbekii	Albizia lebbekii	10
53	BA	Albizia lebbekii	Albizia lebbekii	10
54	BB	Albizia lebbekii	Albizia lebbekii	10
55	BC	Albizia lebbekii	Albizia lebbekii	10
56	BD	Albizia lebbekii	Albizia lebbekii	10
57	BE	Albizia lebbekii	Albizia lebbekii	10
58	BF	Albizia lebbekii	Albizia lebbekii	10
59	BG	Albizia lebbekii	Albizia lebbekii	10
60	BH	Albizia lebbekii	Albizia lebbekii	10
61	BI	Albizia lebbekii	Albizia lebbekii	10
62	BJ	Albizia lebbekii	Albizia lebbekii	10
63	BK	Albizia lebbekii	Albizia lebbekii	10
64	BL	Albizia lebbekii	Albizia lebbekii	10
65	BM	Albizia lebbekii	Albizia lebbekii	10
66	BN	Albizia lebbekii	Albizia lebbekii	10
67	BO	Albizia lebbekii	Albizia lebbekii	10
68	BP	Albizia lebbekii	Albizia lebbekii	10
69	BQ	Albizia lebbekii	Albizia lebbekii	10
70	BR	Albizia lebbekii	Albizia lebbekii	10
71	BS	Albizia lebbekii	Albizia lebbekii	10
72	BT	Albizia lebbekii	Albizia lebbekii	10
73	BU	Albizia lebbekii	Albizia lebbekii	10
74	BV	Albizia lebbekii	Albizia lebbekii	10
75	BW	Albizia lebbekii	Albizia lebbekii	10
76	BX	Albizia lebbekii	Albizia lebbekii	10
77	BY	Albizia lebbekii	Albizia lebbekii	10
78	BZ	Albizia lebbekii	Albizia lebbekii	10
79	CA	Albizia lebbekii	Albizia lebbekii	10
80	CB	Albizia lebbekii	Albizia lebbekii	10
81	CC	Albizia lebbekii	Albizia lebbekii	10
82	CD	Albizia lebbekii	Albizia lebbekii	10
83	CE	Albizia lebbekii	Albizia lebbekii	10
84	CF	Albizia lebbekii	Albizia lebbekii	10
85	CG	Albizia lebbekii	Albizia lebbekii	10
86	CH	Albizia lebbekii	Albizia lebbekii	10
87	CI	Albizia lebbekii	Albizia lebbekii	10
88	CJ	Albizia lebbekii	Albizia lebbekii	10
89	CK	Albizia lebbekii	Albizia lebbekii	10
90	CL	Albizia lebbekii	Albizia lebbekii	10
91	CM	Albizia lebbekii	Albizia lebbekii	10
92	CN	Albizia lebbekii	Albizia lebbekii	10
93	CO	Albizia lebbekii	Albizia lebbekii	10
94	CP	Albizia lebbekii	Albizia lebbekii	10
95	CQ	Albizia lebbekii	Albizia lebbekii	10
96	CR	Albizia lebbekii	Albizia lebbekii	10
97	CS	Albizia lebbekii	Albizia lebbekii	10
98	CT	Albizia lebbekii	Albizia lebbekii	10
99	CU	Albizia lebbekii	Albizia lebbekii	10
100	CV	Albizia lebbekii	Albizia lebbekii	10



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## **ANNEXURE V**

**Communication with SEIAA regarding the modification in scope  
of the project (letter No JLD/GT/EE/005/2014-15 dated 13-06-  
2014)**





No : JLD/GT/EE/005/2014-15  
13<sup>th</sup> June, 2014.

Director  
Department of Environment & Climate Change  
Palimukku,  
Pettah (P.O).  
Thiruvananthapuram-695 024

Dear Sir,

**Sub:** Environmental Clearance for the Proposed "Gold Tower" at Varhakkala Village, Kanayannur Taluk, Emakulam District, Kerala by M/S Joyalukkas India (P) Limited - Reg:-

**Ref:** SEIAA Letter No: 21/SEIAA/KL/871/2012 dated 14<sup>th</sup> November, 2012.

As you are aware, the environmental clearance for the subject work was accorded by SEIAA through the reference cited above. At the planning stage, the proposal was for a residential cum commercial building, with commercial area restricted to 11.70% within 2 floors. However, during the course of time there was a rethinking in this regard and now it is planned to change it completely as a residential building, without any appreciable change in the building parameters. Since the construction has just begun and the respective works are about to execute, we here by intimate you on the small change in project as mentioned above.

Thanking you,  
Yours faithfully,

For Joyalukkas Lifestyle Developers Pvt. Ltd.

Authorized Signatory



**Copy to:**  
Senior Environmental Engineer,  
Kerala State Pollution Control Board,  
District Office, Emakulam



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## **ANNEXURE VI**

### **Building permit obtained from Thrikkakara municipality**



**തൃക്കാക്കര നഗരസഭ സെക്രട്ടറിയുടെ ഉത്തരവ് നടപടികൾ**

വിഷയം - കെട്ടിടനിർമ്മാണാനുമതിയുടെ കാര്യത്തിൽ നിർദ്ദേശിക്കുന്നത് സംബന്ധിച്ച്

നമ്പർ: BA/ 65/1/2011

തീയതി: 14/5/2015

പരാമർശം: 1. SOY ALUKKAD LIFESTYLE DEVELOPERS PVT LTD. - No. 23-C1-15 - No. 2

**ഉത്തരവ്**

തൃക്കാക്കര നഗരസഭ അതിർത്തിയിൽ കാരാണാട്/ വഴക്കാട് വില്ലേജിൽ കണത്തുൾ അടുക്കിൽ 42/1..... സ്ഥിതി ചെയ്യുന്ന സർവ്വേ നമ്പറിൽ ഒരു സ്ഥലത്ത് നിർമ്മിക്കാനുദ്ദേശിക്കുന്ന കെട്ടിടത്തിന്റെ നിർമ്മാണാനുമതിയുടെ കാര്യത്തിൽ പരാമർശം അപേക്ഷ പരിഗണിച്ചു. റിജിസ്ട്രാർ ഹിസ്റ്ററിക്കൽ 49000/..... മുഖം 115.9.2.84.624 DH 12/5/15 പ്രകാരം അപേക്ഷിന്റെ അറിവാനുമതി 16-2-2015 മുതൽ 9-02-2018 വരെയാണ് നിർദ്ദേശിച്ചുകൊണ്ട് ഇതിനാൽ ഉത്തരവു കൊടുക്കുന്നു.



സെക്രട്ടറി  
 തൃക്കാക്കര നഗരസഭ  
 തൃക്കാക്കര

SOY ALUKKAD LIFESTYLE  
DEVELOPERS PVT LTD  
THIRUVANANTHAPURAM

പ്രകാശിതമാക്കി

14.5.2015



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## **ANNEXURE VII**

### **No Objection Certificate from Fire and Rescue Service**



No.G1-11120/2012.

**NO OBJECTION CERTIFICATE**

**( SITE )**

The plan of 27 storeyed (B2+B1+G+24) height 81 metres Mercantile Cum Residential Building (Mercantile Portion upto 10.5 Metres (G+2) floors and 3<sup>rd</sup> floor proposed for service & Amenity purpose)in Survey No.42/1 in Vadhakkala Village in Thrikkakkara Municipality proposed to be constructed by M/s. Joy Alukkas Traders India (P) Ltd., Regd. Office, Marine Drive Cochin was verified by the Scrutiny Committee, Fire & Rescue Services Headquarters, Thiruvananthapuram on 02.01.2013. The Committee has recommended to issue No Objection Certificate in respect of the plan submitted by the applicant subject to the following conditions.

- (1) All the fire fighting arrangements should be made as per the existing relevant rules and approved fire fighting system plan.
- (2) Fire escape & main staircases should reach up to the roof top.
- (3) Fire lift is essential in all blocks as per NBC Part IV 2005.
- (4) Any Deviation in the Final Site Plan submitted will invalidate this NOC and a fresh NOC need to be obtained.
- (5) 11 KV & 66 KV electrical lines are passing near the proposed Site. Hence the NOC from the Electrical Inspectorate will be obtained before Construction of Building.

2) Under my seal and authority a No Objection Certificate is issued for the proposed construction of a 27 storeyed Mercantile Cum Residential building in the above mentioned site and survey number. A fresh No Objection Certificate should be obtained from this Department after completion of construction and before occupation of the building.

Sd/-

**P.CHANDRASEKHARAN, IPS  
COMMANDANT GENERAL,  
FIRE & RESCUE SERVICES.**

To

The Secretary, Thrikkakkara Municipality.  
Vide Lr.No.BA-65/1/2011 Dated: 11.10.2012.

Copy to: The Party (with approved fire fighting system plan)

The Assistant Divisional Officer, Fire & Rescue Services, Ernakulam  
The Station Officer, Fire & Rescue Station, Thrikkakkara.

Approved for issue.

**P.K.SATHYAN,  
DIRECTOR (ADMN.)**

MA/5 5.7.13

www.keralafireandrescueservices.org



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**ANNEXURE VIII**

**The Consent to Establish from KSPCB**





## KERALA STATE POLLUTION CONTROL BOARD

### INTEGRATED CONSENT TO ESTABLISH

ISSUED UNDER

The Water (Prevention & Control of Pollution) Act, 1974  
The Air (Prevention & Control of Pollution) Act, 1981  
The Environment (Protection) Act, 1986

TO

**Consent No. PCB/HO/EKM/ICE/20/2014**  
**M/s. Joyalukkas Life style Developers Private**  
**Limited**

**2/144, Vazhakkala, Kochi - 30**

**(for M/s. The Gold Tower, Vazhakkala)**

**Date: 19.09.2014**

**Validity: 30.06.2016**

Copy to:

1. The Chief Environmental Engineer, Regional Office, Ernakulam
2. The Environmental Engineer, District Office-1, Ernakulam
3. The Secretary, Thrikkakara Municipality
4. Stock File







# 1. GENERAL

1	Validity	30.06.2016
2	Name and Address of the establishment	The Gold Tower Vazhakkala Ernakulam
3	Communication	Telephone: 9497725910 e-mail: <a href="mailto:customer@joyalukkas.com">customer@joyalukkas.com</a> Website: <a href="http://www.joyalukkas.com">www.joyalukkas.com</a>
4	Occupier details	Shri. Joy Alukkas Alias A. V. Joy
5	Survey Number	42/1
6	Local body	Thrikkakara Municipality
7	Village	Vazhakkala
8	Taluk	Kanayannur
9	District	Ernakulam
10	Category	Orange
11	Annual Fee	₹ 1,00,000/-
12	Fee remitted	₹ 3,00,000/-
13	Capital Investment	₹ 52.17 crore
14	Date of receipt of application	24.07.2013
15	Date of receipt of last clarification	01.08.2014
16	Date of enquiry	31.10.2013
17	Water consumption	161.335 KLD
18	Effluent Generation	150 m <sup>3</sup> /d
19	Activity	Construction of 176 apartments in B1 + B2 + G + 24 floors with total built up area 45091.38 m <sup>2</sup> DG set - 250 kVA (2 nos)





## 2. GENERAL CONDITIONS

- 2.1 This consent is granted subject to the power of the Board to review and make variation in all or any of the conditions.
- 2.2 This consent, unless withdrawn earlier and subject to Condition no. 2.1, shall be valid upto **30.06.2016**. At the end of the validity period if the construction is in progress, the same shall be got renewed. If the construction is not started in the consent period, the applicant shall apply afresh for consent to establish. Applications shall be submitted through online consent management system vide [krocmms.nic.in](http://krocmms.nic.in).
- 2.3 The applicant shall comply with the instructions that the Board may issue from time to time regarding prevention and control of air, water, land and sound pollution.
- 2.4 The date of commissioning of the project shall be intimated at least one month in advance to the District Office of the Board at Ernakulam.
- 2.5 Consent to Operate under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 shall be obtained by the builder before commissioning the project.
- 2.6 A minimum set back as per Municipality Building Rule shall be provided between the boundary and the building and the set back can be utilised for the development of green belt.
- 2.7 Sewage Treatment Plant (STP) shall be set up beyond a minimum distance of  $10 \log Q$  metre, where Q is the sewage inflow in  $m^3/day$ , from the nearest residence/ other establishments.
- 2.8 D. G. sets shall be placed at a minimum distance of  $\sqrt{(kVA/2)}$  metre from nearest residence/worship places/other institutions (kVA is the capacity of D G sets).

## 3. CONDITIONS AS PER The Water (Prevention & Control of Pollution) Act, 1974

- 3.1 Effluent treatment plant consisting of treatment units with adequate design capacity as per the proposal submitted along with the application and additional treatment units such as ultrafiltration in order to achieve the treated effluent quality standards shall be constructed above ground level / cellar room having adequate space for inspection and shall be made functional before commissioning.
- 3.2 The sullage after chemical precipitation and settling shall join the sewage in the aeration unit.
- 3.3 Anaerobic system shall be introduced for sewage before treating in the aeration tank. Anoxic tank shall be replaced with adequate septic tanks.
- 3.4 Back wash from the filters shall be taken into aeration tank.
- 3.5 The screenings from the screen, skimmings from oil trap and entire sludge from sullage settling tank and excess sludge from post aeration tank along with biodegradable garbage shall be fed into biogas plant.
- 3.6 Disinfection unit shall be introduced between Pressure sand filter and Activated carbon filter.



- 3.7 The characteristics of treated effluent shall conform to the following tolerance limits :

Sl. No.	Characteristics	Unit	Gardening/ Flushing / Car washing
1.	pH	-	6.5-8.5
2.	Suspended solids	mg/l, max	20
3.	BOD, (3 day at 27°C)	mg/l, max	3
4.	Oil & Grease	mg/l, max	1

- 3.8 The treated effluent shall be reused for flushing & gardening to the maximum extent possible and balance shall be discharged into soak pit having honey combed brick wall / perforated ring side wall and 45 cm thick 2 mm sand envelop around it.
- 3.9 There shall be easy access to each and every effluent treatment unit and the recycling facility for inspection. Lighting arrangements shall be provided in the effluent treatment area, recycling area and backyard.
- 3.10 Time of Day type energy meter shall be installed exclusively for the effluent treatment and reuse system and shall be maintained properly.
- 3.11 The biodegradable solid waste including garbage shall be treated and disposed through biogas plant. Biogas and slurry shall be utilized effectively.
- 3.12 Arrangements shall be provided for rain water harvesting and for utilization of harvested rain water. The rainwater harvesting system shall be placed at a minimum distance of 20 m away from the soak pit.
- 3.13 Diesel generator of adequate capacity shall be provided as backup power to run the sewage / waste water treatment plant alongwith all associated pollution control devices.
- 3.14 Natural drainage of the area shall be protected.
- 3.15 Water meter shall be fixed to record consumption of water.

#### **4. CONDITIONS AS PER The Air (Prevention & Control of Pollution) Act, 1981**

- 4.1 The DG set shall be acoustically protected. The minimum height of chimney for venting emissions from DG set shall be 0.2  $\sqrt{\text{kVA}}$  metre above roof level of the highest nearby building, where kVA is the capacity of the D G set.
- 4.2 The sound level measured at 1 m outside the boundary of the premises shall not exceed the ambient sound level applicable to the adjoining area.
- 4.3 All operations likely to produce dust or noise shall be carried out with appropriate enclosure.





- 4.4 Water sprinklers shall be provided to suppress spreading of dust outside the premises during the construction phase. Suspended particulate matter at the boundary of the premises shall not exceed the standards applicable to the adjoining area.

#### **5. ADDITIONAL CONDITIONS**

- 5.1 Proper precautionary measures shall be provided during construction phase to minimize disturbance to neighbours and neighbouring properties due to excavation, piling, transportation of materials etc.
- 5.2 The construction debris and mud discharges etc from the construction site shall be disposed safely.
- 5.3 Sanitary facilities shall be provided to the construction workers.
- 5.4 Non - biodegradable wastes shall be collected with due segregation and disposed off safely. The mode of disposal shall be intimated to the Board.
- 5.5 Suitable species of trees and curtain plants shall be planted and maintained within and along the periphery of the premises, forming a green belt to improve the environment.
- 5.6 Renewable sources of energy namely solar energy shall be utilized effectively.
- 5.7 Used Lead acid batteries, if any shall be disposed as per the Battery (Management and Handling) Rules.
- 5.8 The location of the proposed buildings, sewage treatment plant, DG sets and other structures shall be as shown in the drawing attached. No change or alteration on these shall be made without prior clearance from this office.
- 5.9 Adequate safety measures shall be provided in accordance with fire safety regulation.
- 5.10 e- waste shall be disposed in an environmentally sound manner.
- 5.11 All conditions in Environmental Clearance No. 21/SEIAA/KL/871/2012 dated 14/11/2012 shall be fully complied with.

**Date: 19.09.2014**



**Office Seal**

**MEMBER SECRETARY**





RESIDENTIAL BUILDING

ROAD

WATER TANK

SEWERAGE

TO PLANTATION Q

SHOP

SHOP

SHOP

Approved site plan

*[Signature]*

Member Secretary



VILLAGE	:	VAZHAKKALA
TALUK	:	KANAYANNUR
MUNICIPALITY	:	THIRUKKAKARA
DISTRICT	:	ERNAKULAM
SURVEY NO.	:	42/1
BLOCK NO.	:	9

NAME AND ADDRESS OF THE APPLICANT
MA JOY ALUKKAS LIFESTYLE DEVELOPERS PVT 2744, VAZHAKKALA, KOCHIN



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## **ANNEXURE IX**

### **Copies of News Paper Advertisements made on granting of EC**



കുറിച്ച് സംസാരം: മലനാഥി ബീച്ച് ഉണക്കുന്നു



1. The first step is to identify the problem.
 2. The second step is to define the problem.
 3. The third step is to analyze the problem.
 4. The fourth step is to develop a solution.
 5. The fifth step is to implement the solution.
 6. The sixth step is to evaluate the solution.
 7. The seventh step is to monitor the solution.
 8. The eighth step is to maintain the solution.
 9. The ninth step is to improve the solution.
 10. The tenth step is to document the solution.

ജലസ്രോതസ്സുകൾ വറ്റിവരയ്ക്കുന്നു;  
ജില്ല കൂടിയിരുന്ന ക്ഷാമത്തിലേക്ക്



புதிதாயிற்று நான் அப்போது அறிந்தேன்  
உயிரிழந்த மனம் உன் கையில்

1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.  
 2. *Journal of the American Medical Association*, 1997; 278: 1045-1050.  
 3. *Journal of the American Medical Association*, 1997; 278: 1051-1056.

உயரகல்பம், நன்மையுடைய பிறை  
நிகழ்வதற்கு, நான் உயர்ந்தேன்.



...and all this time  
...and all this time

1. *Journal of the American Medical Association*, 1997; 277: 103-107.  
 2. *Journal of the American Medical Association*, 1997; 277: 108-112.



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41-2798-201A-9



2014

ശബരി മല  
1 ഫ്രീഫോൺ

മാർച്ച് 20-ന്  
ശബരി മല  
കീഴെ പതിനാലു  
പേർക്കു നഷ്ടം  
പറ്റിയതായി  
റിപ്പോർട്ട് ചെയ്തു.

ശബരി മലയിലെ ഏകദേശം 1000 ഓളം പേർ താമസിക്കുന്ന ഷാലിപ്പള്ളിയിൽ ഏകദേശം 1000 പേർ താമസിക്കുന്നു. ഇവിടെ താമസിക്കുന്നവർക്ക് താമസം സൗജന്യമായി നൽകുന്നു. ഇവിടെ താമസിക്കുന്നവർക്ക് താമസം സൗജന്യമായി നൽകുന്നു. ഇവിടെ താമസിക്കുന്നവർക്ക് താമസം സൗജന്യമായി നൽകുന്നു.

# സംസ്ഥാന ബജറ്റ്: നാളെ ധനമന്ത്രി വ്യാപാരികളുമായി ചർച്ച നടത്തും

കേരള സംസ്ഥാന ബജറ്റിനെക്കുറിച്ച് ധനമന്ത്രി എ.എം. അഹ്മദ് ട്രേഡ് ഓഫീസുകളിൽ വ്യാപാരികളുമായി ചർച്ച നടത്തും. ഇദ്ദേഹം ട്രേഡ് ഓഫീസുകളിൽ വ്യാപാരികളുമായി ചർച്ച നടത്തും. ഇദ്ദേഹം ട്രേഡ് ഓഫീസുകളിൽ വ്യാപാരികളുമായി ചർച്ച നടത്തും. ഇദ്ദേഹം ട്രേഡ് ഓഫീസുകളിൽ വ്യാപാരികളുമായി ചർച്ച നടത്തും.

തിര

റിപ്പോർട്ട് ചെയ്ത  
താഴെ പറയുന്ന  
വിവരങ്ങൾ

കേരളത്തിലെ പതിനാലു പേർക്കു നഷ്ടം പറ്റിയതായി റിപ്പോർട്ട് ചെയ്തു.

## പൊതു അറിയിപ്പ്

എറണാകുളം ജില്ലയിലെ പൊതുജനങ്ങൾക്ക് അറിയിപ്പ് നൽകുന്നതിനായി ഏതാനും വർഷമായി നിലവിലുള്ള നിയമം 2014 ജൂലൈ 1-ന് തുടങ്ങിയതായി അറിയിപ്പ് നൽകുന്നു. ഇതിന്റെ അനുബന്ധമായി നൽകുന്നതാണ് പൊതുജനങ്ങൾക്ക് അറിയിപ്പ് നൽകുന്നതിനായി നിയമം 2014 ജൂലൈ 1-ന് തുടങ്ങിയതായി അറിയിപ്പ് നൽകുന്നു. ഇതിന്റെ അനുബന്ധമായി നൽകുന്നതാണ് പൊതുജനങ്ങൾക്ക് അറിയിപ്പ് നൽകുന്നതിനായി നിയമം 2014 ജൂലൈ 1-ന് തുടങ്ങിയതായി അറിയിപ്പ് നൽകുന്നു.

\* Mathyamanu 14/11/14



# FICN Case: First Accused to Turn Approver

Probe To Cross State Boundaries

Special Report  
By N. S. Ramesh

The first accused in the FICN case has turned approver. The probe is expected to cross state boundaries.

The first accused in the FICN case has turned approver. The probe is expected to cross state boundaries.

The first accused in the FICN case has turned approver. The probe is expected to cross state boundaries.

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The first accused in the FICN case has turned approver. The probe is expected to cross state boundaries.

## FLIGHT DELAYED



A person standing next to a large aircraft, possibly a cargo plane, on a tarmac.

## Declining Sex Ratio Under Tackled

By N. S. Ramesh

The declining sex ratio in the state is under tackled. The government is taking steps to improve the situation.

The declining sex ratio in the state is under tackled. The government is taking steps to improve the situation.

The declining sex ratio in the state is under tackled. The government is taking steps to improve the situation.

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The declining sex ratio in the state is under tackled. The government is taking steps to improve the situation.

The declining sex ratio in the state is under tackled. The government is taking steps to improve the situation.

## Ex-Customs Official Held for Graft

Training Programme

The ex-customs official is held for graft. The training programme is ongoing.

The ex-customs official is held for graft. The training programme is ongoing.

The ex-customs official is held for graft. The training programme is ongoing.

The ex-customs official is held for graft. The training programme is ongoing.

The ex-customs official is held for graft. The training programme is ongoing.

## COMPENSATION CASE HC RAPS MINISTRY



A person standing in front of a building, possibly a government office.

The compensation case is being handled by the ministry. The HC has rapped the ministry.

The compensation case is being handled by the ministry. The HC has rapped the ministry.

The compensation case is being handled by the ministry. The HC has rapped the ministry.

## Bank Staffer Gets 18-yr Jail Term

Special Report

The bank staffer is given a 18-yr jail term. The case is being handled by the court.

The bank staffer is given a 18-yr jail term. The case is being handled by the court.

The bank staffer is given a 18-yr jail term. The case is being handled by the court.

The bank staffer is given a 18-yr jail term. The case is being handled by the court.

## Photo Exhibition from Today



## THE SREENARAYANA THUSTS FOUNDED BY VEDANT LALU

AWARDS

**SMALL BUSINESS SUPPORT AND LENDING MANAGEMENT ASSOCIATION**

Supporting Small Business Growth

**CITY DECOR**

Interior Design & Decoration

**THE SREENARAYANA THUSTS**

FOUNDED BY VEDANT LALU

AWARDS

**NOTICE**

Public notice regarding the FICN case.

**SMALL BUSINESS SUPPORT AND LENDING MANAGEMENT ASSOCIATION**

Supporting Small Business Growth

**CITY DECOR**

Interior Design & Decoration

**THE SREENARAYANA THUSTS**

FOUNDED BY VEDANT LALU

AWARDS

**THE SREENARAYANA THUSTS**

FOUNDED BY VEDANT LALU

AWARDS

**THE SREENARAYANA THUSTS**

FOUNDED BY VEDANT LALU

AWARDS

\*Times of India 14/12/2012



## Express News Service

**Kochi:** Keeping in mind the mounting threat of the declining sex ratio among children below six in the state, the National Rural Health Mission (NRHM) has joined hands with the Social Welfare Department to tackle the issue.

The NRHM noted that sex ratio among children below the age of six has declined to the lowest in several decades. Though Kerala has kept up its position in various health indicators, the decline in the ratio is a cause of concern for

the future, it said.

The ratio is the worst in the central and southern districts, including Ernakulam (954), Thrissur (948), Lohitki (958), Alappuzha (947) and Kottayam (957). The Health Department should take steps to create awareness about the issue, considering the prevalence of the problem for a male child.

The NRHM called for strict steps and constant monitoring of female foeticide in the state. The NRHM and the Social Welfare Department would initiate projects to deal with the issue.

## Elected

**Kochi:** Juna Pallan, senior divisional manager, Kuthukode, and Gopikrishnan, divisional manager, Thiruvananthapuram, were elected state president and secretary of the United India Insurance Officers Association (Kerala), stated in an official release.

Gopikrishnan



Juna Pallan, since Officers Association (Kerala), stated in an official release.

## Training Programme

### Express News Service

**Kochi:** A training programme on 'Basic Life Saving Techniques' was organised by the Kerala Chamber Ladies Forum in association with Sunrise Hospital here on Tuesday.

The programme covered topics including burns, road accidents, allergies, head injuries and heart attacks. The training programme was carried out by a medical team from Sunrise Hospital.

## TE MEDICAL COLLEGE STUDENT ASSOCIATION

Sanjiv Medical College, PO, Alappuzha, Kerala 686 015  
Email: sanjivmedical@gmail.com Website: www.sanjivmedical.com

## TO POST GRADUATE DIPLOMA COURSES 2013

For candidates for the All India Entrance test to the Graduate Medical Degree/Diploma courses for the member colleges of the Kerala Private Medical Council (KPMCU). Prospectus and Application can be had onwards. Last date for receipt of application is 15.12.2012.

It was passed by appropriate Authorities, Council of LMC.

Secretary, KPMCU.

## NOTICE

This is to inform to the General Public that the proposed construction of a residential cum commercial building project at Resurvey No. 42/1, Block No. 2 of Vachakkal Village, Kanyannur Taluk, Ernakulam District, Kerala being developed by M/s Joyaloksha India Pvt. Ltd. is accorded with ENVIRONMENTAL CLEARANCE by State Environment Impact Assessment Authority, Kerala with Order No. 21/SEIAA/KU/87/10/2012 dated 14.12.2012 and the copy of the Environmental Clearance is available with the office of Department of Environment and Climate Change, Govt. of Kerala and may also be viewed on the website of the Authority at [www.seiaa.kerala.org](http://www.seiaa.kerala.org)

## NOTICE

### STRIKE BY BANK EMPLOYEES ON 20<sup>th</sup> DECEMBER 2012

Indian Banks' Association (IBA), on behalf of its member banks, wishes to inform the public in general and bank customers in particular that All India Bank Employees Association (AIBEA), Bank Employees Federation of India (BEFI) and All India Bank Officers' Association (AIBOA) have given a call to their members for a strike on 20<sup>th</sup> December 2012 (raising certain demands). At IBA level, efforts are being made to avert the proposed strike. If case, the strike materializes, the working of the banks where the Unions/Associations have majority membership may get affected on 20<sup>th</sup> December 2012. As a precaution, all concerned are requested to transact their banking business in advance/ use alternate channels of banking facilities to avoid inconvenience to the extent possible.

IBA, on behalf of its member banks, regrets the inconvenience that may be caused to customers/members of the public.



**INDIAN BANKS' ASSOCIATION**

[www.iba.org.in](http://www.iba.org.in)

Times of India 14/12/2012



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## **ANNEXURE X**

### **Communication to SEIAA on News Paper Advertisements**



28.03.2013

Form.

PP Jose,  
Executive Director,  
M/s. Joyalukkas India Pvt Ltd,  
Peevees Triton, Marine Drive, Kochi-31

To.

The Secretary,  
SEAC, Kerala

Sub 3- Submission of Documents after issuance of EC

Ref :- 1. Our Letter Dated 03.01.2013

2. Your letter No. 21/SEIAA/KL/871/2012 Dated 8.03.2013.

39

With reference to item No.1 referred above we had forwarded the copy of the "Proceedings of the State Environment Impact Assessment Authority", the original paper publications and Notarised Affidavit in compliance to the directions of your good office. Unfortunately vide item No. 2 above it is intimated to us that the notary attested affidavit is not received in your office.

In the light of the above and in compliance of the directions from your good office we are forwarding herewith the copy of the affidavit which was sent earlier and an original of the fresh affidavit.

Kindly acknowledge receipt of the fresh Affidavit in compliance of the directions. Regret the inconvenience caused.

Yours faithfully



PP Jese

Executive Director



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## **ANNEXURE XI**

### **Copies of Communication on granting of EC by SEIAA to municipality**



17<sup>th</sup> December, 2012.

Municipal Secretary,  
Thiruvakkara Municipality,  
Kakkanad P.O  
Pin - 682030

Ref No: File 21/SEIAA/KL/871/2012 dt. 14/11/2012

Sub: Environmental Clearance - Submitting copy of the Environmental Clearance for the Proposed residential cum commercial project at Re-survey No.: 42/1, Block No.: 9 of Vazhakkala Village, Kanayannur Taluk, Ernakulam District, Kerala.

Dear Sir,

We, M/s Joyalukkas India (P) Ltd., (formerly Joy Alukkas Traders (India) Pvt. Ltd.) Propose to develop a residential cum commercial project at re-survey No.: 42/1, Block No.: 9 of Vazhakkala Village, Kanayannur Taluk, Ernakulam District, Kerala. Attached herewith the copy of the Environmental Clearance bearing No. 21/SEIAA/KL/871/2012, dated, Thiruvananthapuram 14-11-2012 from State Environmental Impact Assessment Authority, Kerala (SEIAA) for your reference and record.

Thanking you,  
Yours faithfully,

For Joyalukkas India (P) Ltd.



P. P. Jose,  
Executive Director.



Branches:  
Mumbai, Gurpin, Bangalore, Mangalore, Hyderabad, Vijayawada, Chennai, Coimbatore,  
Madurai, Salem, Tirunelveli, Vellore, Karaikal, Kanchipuram, Pudukkottai, Cochin,  
Angamaly, Thiruvalla, Kollam, Kozhikode, Thrissur, Thiruvananthapuram.

Registered Office:  
Joyalukkas India Limited,  
Marine Drive, Kochi, India - 682031  
Tel: 0484 2360051, Fax: 0484 2360051  
E-mail: customercare@joyalukkas.com  
Website: www.joyalukkasindia.com

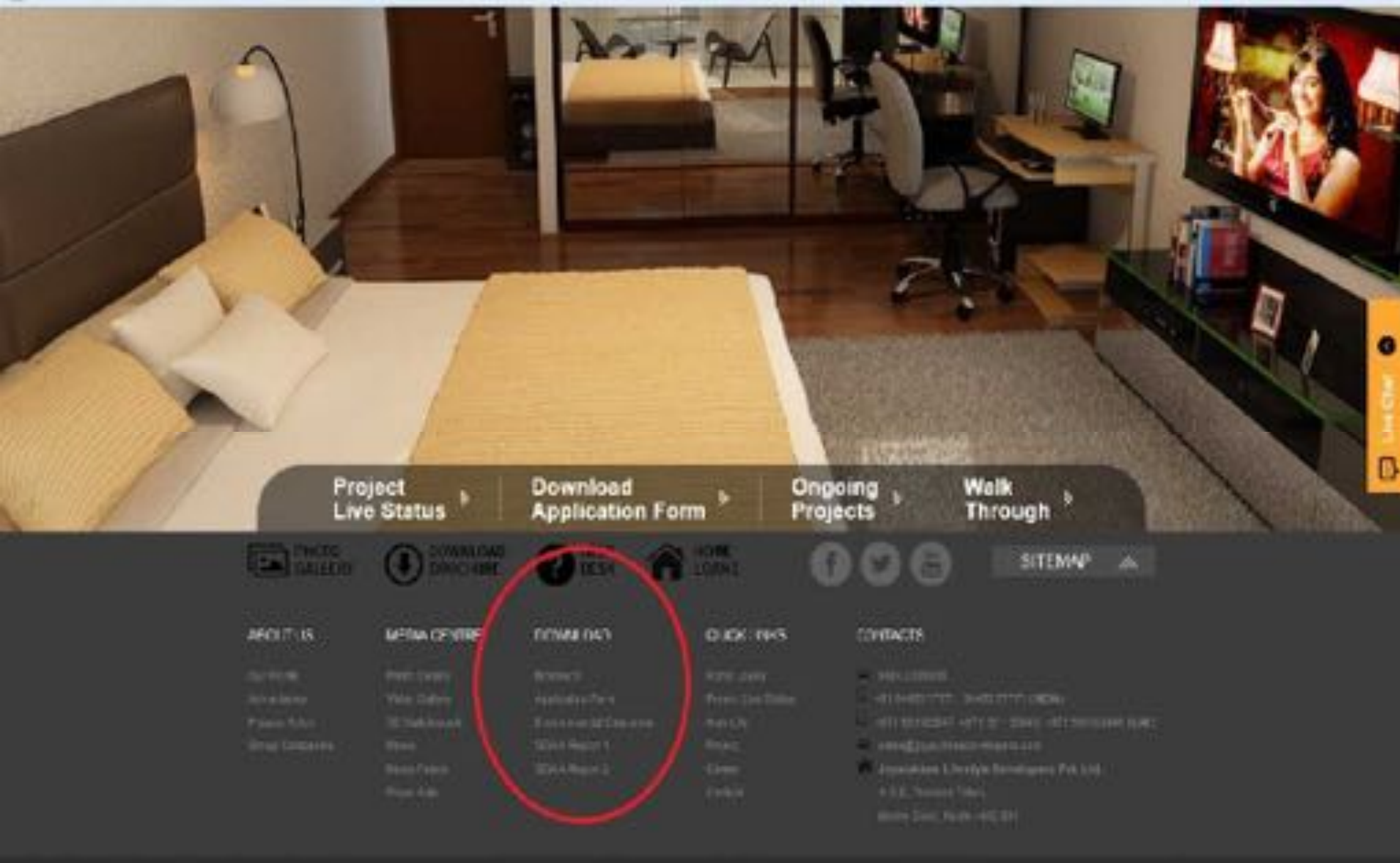


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## **ANNEXURE XII**

### **A copy of the Company Website Display**







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## **ANNEXURE XIII**

### **Environmental Monitoring Results**





# COCHIN TEST HOUSE

ANALYTICAL SERVICES & CONSULTANTS

Testing, Calibration, Certification and Research Laboratory for Water, Effluent Water, Air, Sound, Stack Samples, Chemicals, Oil, Soil, Heavy Metals, Pesticide Residue etc.



■ NABL accredited as per ISO / IEC 17025 : 2005 ■ Laboratory Approved by Kerala State Pollution Control Board (A' Grade)

## TEST REPORTS

Report No : CTH/LR/15/01/020

Issue Date : January 16, 2015

Name and Address of customer : M/S. KITCO LTD, PUTHIYA ROAD,  
VENNALA, KOCHI - 682 028

Sample Drawn By : Cochin Test House

Monitoring station : N10°00'663" E 076°19'464

Particulars of the sample : Water Sample

Sample code : 15/01/020

Date of receipt of sample : January 08, 2015

Dates of Analysis : 08.01.2015 - 15.01.2015

Description of the sample by the customer : Bore Well Water

Sl.No.	Parameters	Unit	Method	Result
1	Colour	Colour units	IS : 3025 (Pt.4)	5
2	Odour	-	IS : 3025 (Pt. 5)	Unobjectionable
3	Turbidity	NTU	IS : 3025 (Pt.10)	9.0
4	pH@25°C	-	IS : 3025 (Pt. 11)	6.97
5	Total Hardness (as CaCO <sub>3</sub> )	mg/l	IS : 3025 (Pt. 21)	1540.0
6	Iron (as Fe)	mg/l	IS : 3025 (Pt.53)	5.82
7	Chloride (as Cl)	mg/l	IS : 3025 (Pt. 32)	1538.53
8	Total Dissolved Solids	mg/l	IS : 3025 (Pt.16)	3700.0
9	Sulphate as SO <sub>4</sub>	mg/l	APHA:22 <sup>nd</sup> Ed. 2012 4500 SO <sub>4</sub> <sup>2-</sup> E	165.25
10	Alkalinity as CaCO <sub>3</sub>	mg/l	IS : 3025(Pt.23)	114.95
11	Electrical Conductivity @ 25°C	Micromhos/cm	IS : 3025(Pt.14)	6200
12	Calcium as Ca	mg/l	IS : 3025(Pt.40)	368.74
13	Magnesium as Mg	mg/l	IS : 3025(Pt.46)	150.97
14	Residual Free Chlorine	mg/l	IS : 3025(Pt.26)	BDL(MDL - 1.0)
15	Reactive Silica as SiO <sub>2</sub>	mg/l	IS : 3025(Pt.15)	39.38
16	Total Phosphate as P	mg/l	APHA:22 <sup>nd</sup> (d. 2012 4500-P(C)	0.65

End of report

*Handwritten signature*

COCHIN TEST HOUSE

Verified By

Remarks: This test report shall not be reproduced except in full, without the written permission of the laboratory. The samples will be disposed off after 15 days from the date of issue of test report.





# COCHIN TEST HOUSE

ANALYTICAL SERVICES & CONSULTANTS

Testing, Calibration, Certification and Research Laboratory for Water, Effluent Water, Air, Sound, Stack Samples, Chemicals, Oil, Soil, Heavy Metals, Pesticide Residue etc.

Laboratory Approved by Kerala State Pollution Control Board (A' Grade)

## SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/14/12/912

Issue Date : January 16, 2015

Name and Address of customer :

M/S. KITCO LTD, PUTHIYA ROAD,  
VENNALA, KOCHI - 682 028

Sample Drawn By :

Cochin Test House

Monitoring station :

N 10°00.75" E 076°19.461"

Sample code :

14/NN/912

Date of Monitoring :

December 29 & 30, 2014

SL.NO	TIME	Leg	L10	L50	L90
1	06:00 AM - 07:00 AM	61.1	64.4	60.8	57.6
2	07:00 AM - 08:00 AM	64.7	67.6	64.4	61.8
3	08:00 AM - 09:00 AM	66.9	69.2	66.6	64.9
4	09:00 AM - 10:00 AM	69.2	75.2	67.4	63.9
5	10:00 AM - 11:00 AM	70.8	76.1	69.7	66.2
6	11:00 AM - 12:00 PM	74.2	78.0	75.8	67.2
7	12:00 PM - 01:00 PM	69.1	71.2	68.8	67.2
8	01:00 PM - 02:00 PM	66.8	68.6	66.6	65.1
9	02:00 PM - 03:00 PM	71.0	75.6	70.3	67.6
10	03:00 PM - 04:00 PM	71.5	76.3	71.2	68.1
11	04:00 PM - 05:00 PM	71.0	73.3	71.1	68.7
12	05:00 PM - 06:00 PM	72.1	76.4	71.5	67.8
13	06:00 PM - 07:00 PM	77.8	78.5	77.7	77.1
14	07:00 PM - 08:00 PM	77.6	78.9	77.6	76.4
15	08:00 PM - 09:00 PM	77.5	78.1	77.5	76.5
16	09:00 PM - 10:00 PM	76.8	77.3	76.8	76.1
17	10:00 PM - 11:00 PM	76.8	77.3	76.8	76.0
18	11:00 PM - 12:00 PM	72.4	78.0	71.5	69.9
19	12:00 PM - 01:00 AM	71.6	74.6	71.3	69.5
20	01:00 AM - 02:00 AM	69.8	72.7	69.0	68.4
21	02:00 AM - 03:00 AM	59.0	67.8	57.6	56.0
22	03:00 AM - 04:00 AM	57.5	59.5	57.6	56.0
23	04:00 AM - 05:00 AM	58.8	57.2	52.9	49.9
24	05:00 AM - 06:00 AM	58.0	61.8	57.6	54.6

End of Report

*K.P. YACOB*  
ANALYST  
COCHIN TEST HOUSE

Verified By

- Result relate to the sample tested.
- This test report shall not be reproduced except in full, without the written approval of the laboratory.





# COCHIN TEST HOUSE

## ANALYTICAL SERVICES & CONSULTANTS

Testing, Calibration, Certification and Research Laboratory for Water, Effluent Water, Air, Sound, Stack Samples, Chemicals, Oil, Soil, Heavy Metals, Pesticide Residue etc.

Laboratory Approved by Kerala State Pollution Control Board (A' Grade)

### SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/14/12/912

Issue Date : January 16, 2015

Name and Address of customer : M/S. KITCO LTD, PUTHIYA ROAD,  
VENNALA, KOCHI - 682 028

Sample Drawn By : Cochin Test House

Monitoring station : N 10°00.75" E 076°19.461"

Sample code : 14/NN/912

Date of Monitoring : December 29 & 30, 2014

SL.NO	Leq Day Time	Leq Night Time	Leq(DN) Day and Night
1	73.0	71.9	78.5

End of report



Verified

  
K.P. Yousuf  
Authorized Signatory  
COCHIN TEST HOUSE

- Results relate to the sample tested.
- This test report shall not be reproduced except in full, without the written approval of the laboratory.







# COCHIN TEST HOUSE

ANALYTICAL SERVICES & CONSULTANTS

Testing, Calibration, Certification and Research Laboratory for Water, Effluent Water, Air, Sound, Stack Samples, Chemicals, Oil, Soil, Heavy Metals, Pesticide Residue etc.



■ NABL accredited as per ISO / IEC 17025 : 2005 ■ Laboratory Approved by Kerala State Pollution Control Board ('A' Grade)

## TEST REPORTS

Report No : CTH/LR/15/02/084

Issue Date : February 09, 2015

Name and Address of customer : M/S KITCO LTD, PUTHIYA ROAD,  
VENNALA, KOCHI - 682 028

Sample Drawn By : Cochin Test House  
Monitoring station : N10°00.663" E 076°19.464

Particulars of the sample : Water Sample

Sample code : 15/01/084

Date of receipt of sample : February 04, 2015

Dates of Analysis : 04.02.2015 - 07.02.2015

Description of the sample by the customer : Bore Well Water

Sl No.	Parameters	Unit	Method	Result
1	Colour	Colour units	IS : 3025 (Pt.4)	5
2	Odour	-	IS: 3025 (Pt. 5)	Unobjectionable
3	Turbidity	NTU	IS 3025 (Pt.10)	4.3
4	pH@25°C	-	IS: 3025 (Pt.11)	6.56
5	Total Hardness (as CaCO <sub>3</sub> )	mg/l	IS 3025 (Pt. 21)	479.4
6	Iron (as Fe)	mg/l	IS : 3025 (Pt.53)	0.85
7	Chloride (as Cl)	mg/l	IS: 3025 (Pt.32)	526.08
8	Total Dissolved Solids	mg/l	IS : 3025 (Pt.16)	1700.0
9	Sulphate as SO <sub>4</sub>	mg/l	APHA-22 <sup>nd</sup> Ed. 2012 4500 SO <sub>4</sub> <sup>2-</sup> E	56.71
10	Alkalinity as CaCO <sub>3</sub>	mg/l	IS : 3025 (Pt.23)	120.71
11	Electrical Conductivity @ 25°C	Micromhos/cm	IS : 3025 (Pt.14)	2400.0
12	Calcium as Ca	mg/l	IS : 3025 (Pt.40)	102.42
13	Magnesium as Mg	mg/l	IS : 3025 (Pt.46)	54.64
14	Residual Free Chlorine	mg/l	IS : 3025 (Pt.26)	80.1 (MDL - 1.0)
15	Reactive Silica as SiO <sub>2</sub>	mg/l	IS : 3025 (Pt.35)	47.59
16	Total Phosphate as P	mg/l	APHA-22 <sup>nd</sup> Ed. 2012 4500-PhC	2.83

End of report

*Y. S. S.*  
ANALYST

Authorised Signature  
CHIEF EXECUTIVE OFFICER



Verified By

Remarks: This test report shall not be reproduced except in full, without the written permission of the laboratory. The samples will be disposed off after 15 days from the date of issue of test report.







# COCHIN TEST HOUSE

## ANALYTICAL SERVICES & CONSULTANTS

Testing, Calibration, Certification and Research Laboratory for Water, Effluent Water, Air, Sound, Stack Samples, Chemicals, Oil, Soil, Heavy Metals, Pesticide Residue etc.

Laboratory Approved by Kerala State Pollution Control Board (A Grade)

### SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/15/02/072

Issue Date : February 12, 2015

Name and address of the customer :

M/S. KITCO LTD, PUTHIYA ROAD,  
VENNALA, KOVHE - 682 028

Sample Drawn By :

Cochin Test House

Monitoring Station :

N 10°00.75' E 076°19.463"

Sample Code :

15/NN/072

Date of monitoring :

February 04 & 05, 2015

Sl.No	TIME	Leq	L10	L50	L90
1	06.00 AM - 07.00 AM	74.5	75.4	74.3	73.8
2	07.00 AM - 08.00 AM	74.4	75.1	74.2	73.8
3	08.00 AM - 09.00 AM	71.9	75.5	74.0	65.1
4	09.00 AM - 10.00 AM	72.3	74.0	72.1	70.9
5	10.00 AM - 11.00 AM	73.6	75.1	73.8	71.8
6	11.00 AM - 12.00 AM	74.3	75.2	74.2	73.2
7	12.00 AM - 01.00 PM	74.4	75.0	74.7	74.1
8	01.00 PM - 02.00 PM	73.9	74.5	74.0	73.5
9	02.00 PM - 03.00 PM	75.0	76.0	75.0	74.1
10	03.00 PM - 04.00 PM	75.4	76.8	75.2	74.4
11	04.00 PM - 05.00 PM	75.5	76.9	75.2	74.4
12	05.00 PM - 06.00 PM	73.5	75.3	73.4	71.9
13	06.00 PM - 07.00 PM	72.5	75.3	72.2	70.9
14	07.00 PM - 08.00 PM	71.4	72.5	71.0	70.6
15	08.00 PM - 09.00 PM	71.0	71.4	71.0	70.6
16	09.00 PM - 10.00 PM	70.8	71.1	70.7	70.5
17	10.00 PM - 11.00 PM	70.8	71.1	70.7	70.5
18	11.00 PM - 12.00 PM	70.6	71.0	70.6	70.5
19	02.00 AM - 03.00 AM	70.5	70.7	70.5	70.3
20	03.00 AM - 04.00 AM	70.5	70.6	70.5	70.3
21	04.00 AM - 05.00 AM	70.6	70.9	70.6	70.5
22	05.00 AM - 06.00 AM	72.4	73.1	72.7	70.9
23	06.00 AM - 07.00 AM	72.9	73.2	72.9	72.6
24	07.00 AM - 08.00 AM	73.5	74.0	73.5	73.0

End of report

Verified by

K.P. Yoda  
Regional Signatory  
COCHIN TEST HOUSE

- Result relate to the sample tested.
- This test report shall not be reproduced except in full, without the written approval of the laboratory.

V / 78, Kollampady, Menungalparambu Road, Inampuzha P.O., Kochi - 682 109 Phone : 9446332356, 9387381780, Tel. Fax: 9484 - 2502556, E-mail: cochin@cochintesthouse.com, rch@cochintesthouse.com, www.cochintesthouse.com

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(A Calibrated Lab) www.transcal.com





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Testing, Calibration, Certification and Research Laboratory for Water, Effluent Water, Air, Sound, Stack Samples, Chemicals, Oil, Soil, Heavy Metals, Pesticide Residue etc.

Laboratory Approved by Kerala State Pollution Control Board (A' Grade)

### SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/15/02/072

Issue Date : February 12, 2015

Name and address of the customer : M/S. KITCO LTD, PUTHIYA ROAD,  
VENNALA, KOVHI - 682 028

Sample Drawn By : Cochin Test House

Monitoring Station : N 10°00.75" E 076°19.451"

Sample Code : 15/NN/072

Date of monitoring : February 04 & 05, 2015

SIL No	Leq Day Time	Leq Night Time	Leq (DN) Day and Night
1	73.8	71.5	78.4

End of report

  
Verified by

  
Authorised Signatory  
COCHIN TEST HOUSE

- Result relate to the sample tested.
- This test report shall not be reproduced except in full, without the written approval of the laboratory







# COCHIN TEST HOUSE

## ANALYTICAL SERVICES & CONSULTANTS

Testing, Calibration, Certification and Research Laboratory for Water, Effluent Water, Air, Sound, Stack Samples, Chemicals, Oil, Soil, Heavy Metals, Pesticide Residue etc.

Laboratory Approved by Kerala State Pollution Control Board (A Grade)

### AMBIENT AIR QUALITY MONITORING REPORT

Report No : CTH/LR/15/02/071

Issue Date : February 12, 2015

Issued To:

M/S.KITCO LTD, PUTHYA ROAD,  
VENNALA, KOCHI - 682 028

Lab Identification No.	15/NN/071
Sampling Location	N 09° 59.609" E 76° 19.494"
Monitoring Date	February 04 - 05, 2015
Monitored By	Cochin Test House

Sl.No	Parameters	Unit	Method	Result		
				10 AM - 6 PM	6 PM - 2 AM	2 AM - 10 AM
1	SO <sub>2</sub>	µg/m <sup>3</sup>	IS:5182(Pt.2):2009	13.94	20.91	18.12
2	NO <sub>x</sub>	µg/m <sup>3</sup>	IS:5182(Pt.6):2006	20.19	20.58	16.64
3	CO	mg/m <sup>3</sup>	IS:5182(Pt.10):2009	BDL(MDL - 2.29)	BDL(MDL - 2.29)	BDL(MDL - 2.29)
4	PM <sub>10</sub>	µg/m <sup>3</sup>	IS:5182(Pt.23):2006	147.85 (24 hrs Sampling)		
5	PM <sub>2.5</sub>	µg/m <sup>3</sup>	USEPA	69.56 (24 hrs Sampling)		

BDL - Below Detection Limit; MDL - Minimum Detection Limit.

End of Report



Verified by

*[Signature]*

K.P. YACOB  
Authorized Signatory  
COCHIN TEST HOUSE

- Result relate to the sample tested.
- This test report shall not be reproduced except in full, without the written approval of the laboratory.







# COCHIN TEST HOUSE

ANALYTICAL SERVICES & CONSULTANTS

Testing, Calibration, Certification and Research Laboratory for Water, Effluent Water, Air, Solid, Stack Samples, Chemicals, Oil, Soil, Heavy Metals, Pesticide Residue etc.



Certificate No. T-1040  
T-110

■ NABL, accredited as per ISO / IEC 17025 : 2005 ■ Laboratory Approved by Kerala State Pollution Control Board (A' Grade)

## TEST REPORTS

Report No : CTH/LR/15/02/127

Issue Date : March 02, 2015

Name and Address of customer : M/S. KITCO LTD, PUTHIYA ROAD,  
VENNALA, KOCHI - 682 028  
Sample Drawn By : Cochin Test House  
Monitoring station : N10°00.663' E 076°19.464'  
Particulars of the sample : Water Sample  
Sample code : 15/02/127  
Date of receipt of sample : February 25, 2015  
Dates of Analysis : 25.02.2015 - 02.03.2015  
Description of the sample by the customer : Bore Well Water

Sl.No.	Parameters	Unit	Method	Result
1	Colour	Colour units	IS : 3025 (Pt. 4)	5
2	Odour	-	IS : 3025 (Pt. 5)	Unobjectionable
3	Turbidity	NTU	IS : 3025 (Pt. 10)	3.0
4	pH@25°C	-	IS : 3025 (Pt. 11)	6.88
5	Total Hardness (as CaCO <sub>3</sub> )	mg/l	IS : 3025 (Pt. 25)	601.80
6	Iron (as Fe)	mg/l	IS : 3025 (Pt. 53)	0.44
7	Chloride (as Cl)	mg/l	IS : 3025 (Pt. 32)	719.63
8	Total Dissolved Solids	mg/l	IS : 3025 (Pt. 16)	1308.0
9	Sulphate as SO <sub>4</sub>	mg/l	APHA-22 <sup>nd</sup> Ed. 2012 4500-SO <sub>4</sub> <sup>2-</sup> E	77.3
10	Alkalinity as CaCO <sub>3</sub>	mg/l	IS : 3025 (Pt. 23)	125.4
11	Electrical Conductivity @ 25°C	Micromhos/cm	IS : 3025 (Pt. 14)	2800.0
12	Calcium as Ca	mg/l	IS : 3025 (Pt. 40)	127.07
13	Magnesium as Mg	mg/l	IS : 3025 (Pt. 46)	69.54
14	Residual Free Chlorine	mg/l	IS : 3025 (Pt. 26)	BDL (MDL - 1.0)
15	Reactive Silica as SiO <sub>2</sub>	mg/l	IS : 3025 (Pt. 35)	69.83
16	Total Phosphate as P	mg/l	APHA-22 <sup>nd</sup> Ed. 2012 4500-P (C)	4.49

End of report



Verified By



K.P. Yacob  
Analyst  
Cochin Test House

Remarks: This test report shall not be reproduced except in full, without the written permission of the laboratory. The samples will be disposed off after 15 days from the date of issue of test report.





# COCHIN TEST HOUSE

ANALYTICAL SERVICES & CONSULTANTS

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Laboratory Approved by Kerala State Pollution Control Board (A' Grade)

## SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/15/02/128

Issue Date : March 02, 2015

Name and Address of customer :

M/S. KITCO LTD, PUTHIYA ROAD,  
VENNALA, KOCHI - 682 028

Sample Drawn By :

Cochin Test House

Monitoring station :

N 10°00.75' E 076°19.461'

Sample code :

15/NN/128

Date of Monitoring :

February 25 & 26, 2015

SL NO	TIME	Leq	L10	L50	L90
1	06.00 AM - 07.00 AM	74.6	76.0	74.5	73.9
2	07.00 AM - 08.00 AM	74.6	75.6	74.3	73.8
3	08.00 AM - 09.00 AM	71.8	75.8	73.8	65.1
4	09.00 AM - 10.00 AM	72.5	75.0	72.3	70.0
5	10.00 AM - 11.00 AM	73.8	75.6	74.0	71.9
6	11.00 AM - 12.00 AM	75.0	76.0	75.0	74.0
7	12.00 AM - 01.00 PM	74.3	74.9	74.5	73.8
8	01.00 PM - 02.00 PM	74.0	74.6	74.0	73.5
9	02.00 PM - 03.00 PM	75.4	76.3	75.3	74.2
10	03.00 PM - 04.00 PM	75.4	76.8	75.2	74.2
11	04.00 PM - 05.00 PM	75.4	77.0	75.1	73.3
12	05.00 PM - 06.00 PM	73.3	75.0	73.0	71.8
13	06.00 PM - 07.00 PM	73.0	75.3	72.2	71.0
14	07.00 PM - 08.00 PM	71.2	72.0	71.0	70.6
15	08.00 PM - 09.00 PM	71.2	72.0	70.9	70.6
16	09.00 PM - 10.00 PM	70.9	71.5	70.7	70.5
17	10.00 PM - 11.00 PM	71.1	72.0	71.0	70.6
18	11.00 PM - 12.00 PM	70.7	71.0	70.6	70.5
19	12.00 PM - 01.00 AM	70.5	70.6	70.5	70.3
20	01.00 AM - 02.00 AM	70.5	70.7	70.5	70.3
21	02.00 AM - 03.00 AM	70.7	71.0	70.6	70.5
22	03.00 AM - 04.00 AM	72.8	73.2	72.8	72.5
23	04.00 AM - 05.00 AM	73.0	73.5	72.9	72.6
24	05.00 AM - 06.00 AM	73.7	74.4	73.6	73.0

End of Report

K.P. Viscoli

Authorized Signatory  
COCHIN TEST HOUSE

Verified By

- Result relate to the sample tested.
- This test report shall not be reproduced except in full, without the written approval of the Laboratory.







# COCHIN TEST HOUSE

ANALYTICAL SERVICES & CONSULTANTS

Testing, Calibration, Certification and Research Laboratory for Water, Effluent Water, Air, Sound, Stack Samples, Chemicals, Oil, Soil, Heavy Metals, Pesticide Residue etc.

Laboratory Approved by Kerala State Pollution Control Board (A' Grade)

## SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/15/02/128

Issue Date : March 02, 2015

Name and Address of customer

M/S. KITCO LTD, PUTHIYA ROAD,  
VENNALA, KOCHI - 682 028

Sample Drawn By

Cochin Test House

Monitoring station

N 10°00.75' E 076°19.451'

Sample code

15/NM/128

Date of Monitoring

February 25 & 26, 2015

SL.NO	Leq Day Time	Leq Night Time	Leq(DN) Day and Night
1	73.9	71.7	78.5

End of report



Verified



*[Signature]*  
P.J. Jacob  
Authorized Signatory  
COCHIN TEST HOUSE

- Result relate to the sample tested.
- This test report shall not be reproduced except in full, without the written approval of the laboratory.





# COCHIN TEST HOUSE

## ANALYTICAL SERVICES TESTING LABORATORY

V / 7B, Kollampady, Murungaliparambuv Road, Inumpanam P.O., Kochi - 682 309

Mob.: 9446332558, 9387381780, Tel.: 0484 - 2782672

E-mail: cochinesthouse1@gmail.com, Web: www.cochintesthouse.com



Certificate No.: T-2346, 5/2/11

■ NABL accredited as per ISO / IEC 17025 : 2005 ■ Laboratory Approved by Kerala State Pollution Control Board ('A' Grade)

### TEST REPORTS

Report No : CTH/LR/15/03/190

Issue Date : March 30, 2015

Name and Address of customer : M/S.KITCO LTD, PUTHIYA ROAD,  
VENNALA,KOCHI - 682 028

Sample Drawn By : Cochin Test House

Monitoring station : N10°00.663" E 076°19.464

Particulars of the sample : Water Sample

Sample code : 15/03/190

Date of receipt of sample : March 23, 2015

Dates of Analysis : 23.03.2015 - 30.03.2015

Description of the sample by the customer : Bore Well Water

Sl.No.	Parameters	Unit	Method	Result
1	Colour	Colour units	IS: 3025 (Pt. 4)	5.0
2	Odour	-	IS: 3025 (Pt. 5)	Unobjectionable
3	Turbidity	NTU	IS: 3025 (Pt. 10)	5.0
4	pH@25°C	-	IS: 3025 (Pt. 11)	6.74
5	Total Hardness (as CaCO <sub>3</sub> )	mg/l	IS: 3025 (Pt. 21)	325.2
6	Iron (as Fe)	mg/l	IS: 3025 (Pt. 53)	0.57
7	Chloride (as Cl)	mg/l	IS: 3025 (Pt. 32)	578.54
8	Total Dissolved Solids	mg/l	IS: 3025 (Pt. 16)	1174.0
9	Sulphate as SO <sub>4</sub>	mg/l	APHA-22 <sup>nd</sup> Ed. 2012 4500 SO <sub>4</sub> <sup>2-</sup> E	63.53
10	Alkalinity as CaCO <sub>3</sub>	mg/l	IS: 3025 (Pt. 23)	109.72
11	Electrical Conductivity @ 25°C	Micromhos/cm	IS: 3025 (Pt. 14)	2600.0
12	Calcium as Ca	mg/l	IS: 3025 (Pt. 40)	89.14
13	Magnesium as Mg	mg/l	IS: 3025 (Pt. 46)	73.78
14	Residual free Chlorine	mg/l	IS: 3025 (Pt. 26)	BDL(MDL - 1.0)
15	Reactive Silica as SiO <sub>2</sub>	mg/l	IS: 3025 (Pt. 35)	69.36
16	Total Phosphate as P	mg/l	APHA-22 <sup>nd</sup> Ed. 2012 4500-P(C)	1.96

BDL - Below Detection Limit; MDL - Minimum Detection Limit

End of report

Verdictus



Yashodha  
Assistant Manager  
COCHIN TEST HOUSE

NOTE : This test results relate only to the sample submitted for analysis.

The test report shall not be reproduced except in full without the written approval of the laboratory.





# COCHIN TEST HOUSE

ANALYTICAL SERVICES & CONSULTANTS

Testing, Calibration, Certification and Research Laboratory for Water, Effluent Water, Air, Sound, Stack Samples, Chemicals, Oil, Soil, Heavy Metals, Pesticide Residue etc.

Laboratory Approved by Kerala State Pollution Control Board (A Grade)

## SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/15/03/235

Issue Date : March 31, 2015

Name and Address of customer :

M/S. KITCO LTD, PUTHIYA ROAD,  
VENNALA, KOCHI - 682 028

Sample Drawn By :

Cochin Test House

Monitoring station :

N 10°00.75' E 076°19.461"

Sample code :

15/NN/235

Date of Monitoring :

March 26 & 27, 2015

SLNO	TIME	Leq	L10	L50	L90
1	06.00 AM - 07.00 AM	68.0	70.1	68.1	65.7
2	07.00 AM - 08.00 AM	69.0	71.0	68.8	67.6
3	08.00 AM - 09.00 AM	73.6	78.1	74.5	68.1
4	09.00 AM - 10.00 AM	72.0	77.6	77.0	66.7
5	10.00 AM - 11.00 AM	67.2	68.8	66.7	65.2
6	11.00 AM - 12.00 AM	66.3	67.9	66.2	65.1
7	12.00 AM - 01.00 PM	63.8	66.6	64.5	62.4
8	01.00 PM - 02.00 PM	67.0	68.6	66.7	65.1
9	02.00 PM - 03.00 PM	67.4	69.4	67.1	65.4
10	03.00 PM - 04.00 PM	72.5	77.5	76.9	65.2
11	04.00 PM - 05.00 PM	69.2	73.6	69.0	66.1
12	05.00 PM - 06.00 PM	73.8	78.6	77.3	66.6
13	06.00 PM - 07.00 PM	68.4	72.2	68.1	64.6
14	07.00 PM - 08.00 PM	66.9	71.8	66.1	62.0
15	08.00 PM - 09.00 PM	64.8	72.1	62.6	59.5
16	09.00 PM - 10.00 PM	59.3	61.9	59.5	56.4
17	10.00 PM - 11.00 PM	56.2	59.5	56.0	52.8
18	11.00 PM - 12.00 PM	52.7	56.5	53.5	46.9
19	12.00 PM - 01.00 AM	49.8	56.0	49.5	45.2
20	01.00 AM - 02.00 AM	51.3	57.9	52.7	41.8
21	02.00 AM - 03.00 AM	51.2	55.5	52.9	45.2
22	03.00 AM - 04.00 AM	56.2	59.8	56.4	52.0
23	04.00 AM - 05.00 AM	60.3	64.1	60.6	55.9
24	05.00 AM - 06.00 AM	64.3	66.6	64.3	62.4

End of Report



Verified By



Handwritten signature

K.P. Yacob  
Authorized Signatory  
Cochin Test House

- Result relate to the sample tested.
- This test report shall not be reproduced except in full, without the written approval of the laboratory.





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Laboratory Approved by Kerala State Pollution Control Board (A' Grade)

## SOUND LEVEL MONITORING REPORT

Report No : CTH/LM/15/03/235

Issue Date : March 31, 2015

Name and Address of customer : M/S.KITCO LTD, PUTHIYA ROAD,  
VENNALA,KOCHI - 682 028

Sample Drawn By : Cochin Test House

Monitoring station : N 10°00.75" E 076°19.461"

Sample code : 15/NN/235

Date of Monitoring : March 26 & 27, 2015

SL.NO	Leq Day Time	Leq Night Time	Leq(DN) Day and Night
1	69.7	58.2	69.2

End of report



Verified



*Y. P. Jacob*  
 Y. P. Jacob  
 Authorized Signatory  
 COCHIN TEST HOUSE

- Result relate to the sample tested.
- This test report shall not be reproduced except in full, without the written approval of the laboratory.





# COCHIN TEST HOUSE

ANALYTICAL SERVICES TESTING LABORATORY

V / 75, Kollanpady, Murungelparambu Road, Inmanam P.O., Kochi - 682 309

Mob.: 9448332556, 9387381760. Tel.: 0484 - 2782672

E-mail: cochinesthouse1@gmail.com, Web: www.cochintesthouse.com



Certificate No: 72046, 1st/11

■ NABL accredited as per ISO / IEC 17025 : 2005 ■ Laboratory Approved by Kerala State Pollution Control Board (A' Grade)

## TEST REPORTS

Report No : CTH/LR/15/04/252

Issue Date : April 22, 2015

Name and Address of customer :

M/S. KITCO LTD, PUTHIYA ROAD,  
VENNALA, KOCHI - 682 028

Sample Drawn By :

Cochin Test House

Monitoring station :

N10°00.663" E 076°19.464

Particulars of the sample :

Water Sample

Sample code :

15/04/252

Date of receipt of sample :

April 16, 2015

Dates of Analysis :

16.04.2015 - 22.04.2015

Description of the sample by the customer :

Bore Well Water

Sl.No.	Parameters	Unit	Method	Result
1	Colour	Colour units	IS: 3025 (Pt. 4)	20.0
2	Odour	-	IS: 3025 (Pt. 5)	Unobjectionable
3	Turbidity	NTU	IS: 3025 (Pt. 10)	36.8
4	pH@25°C	-	IS: 3025 (Pt. 11)	7.02
5	Total Hardness (as CaCO <sub>3</sub> )	mg/l	IS: 3025 (Pt. 21)	1064.0
6	Iron (as Fe)	mg/l	IS: 3025 (Pt. 53)	2.63
7	Chloride (as Cl)	mg/l	IS: 3025 (Pt. 32)	1157.08
8	Total Dissolved Solids	mg/l	IS: 3025 (Pt. 16)	2200.0
9	Sulphate as SO <sub>4</sub>	mg/l	APHA: 22 <sup>nd</sup> Ed. 2012 4500 SO <sub>4</sub> <sup>2-</sup> F	125.84
10	Alkalinity as CaCO <sub>3</sub>	mg/l	IS: 3025 (Pt. 23)	114.95
11	Electrical Conductivity @ 25°C	Micromhos/cm	IS: 3025 (Pt. 14)	4500.0
12	Calcium as Ca	mg/l	IS: 3025 (Pt. 40)	220.05
13	Magnesium as Mg	mg/l	IS: 3025 (Pt. 46)	126.58
14	Residual Free Chlorine	mg/l	IS: 3025 (Pt. 26)	BDL (MDL - 1.0)
15	Reactive Silica as SiO <sub>2</sub>	mg/l	IS: 3025 (Pt. 35)	50.27
16	Total Phosphate as P	mg/l	APHA: 22 <sup>nd</sup> Ed. 2012 4500 P(C)	3.26

BDL - Below Detection Limit; MDL - Minimum Detection Limit.

End of report

Verified By



42-8  
P. A. Joseph  
Analyst  
Cochin Test House

NOTE : This test results relate only to the sample submitted for analysis.

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### SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/15/4/313

Issue Date : April 25, 2015

Name and Address of customer :

M/S.KITCO LTD, PUTHIYA ROAD,  
YENNALA,KOCHI - 682 028

Sample Drawn By :

Cochin Test House

Monitoring station :

N 10°00.75' E 076°19.461'

Sample code :

15/NN/313

Date of Monitoring :

April 16 & 17, 2015

SL.NO	TIME	Leq	L10	L50	L90
1	06.00 AM - 07.00 AM	68.0	70.1	68.1	65.7
2	07.00 AM - 08.00 AM	69.0	71.0	68.8	67.6
3	08.00 AM - 09.00 AM	73.6	78.1	74.5	68.1
4	09.00 AM - 10.00 AM	71.5	77.5	72.1	67.3
5	10.00 AM - 11.00 AM	67.9	69.7	67.4	65.9
6	11.00 AM - 12.00 AM	67.8	69.1	67.5	65.8
7	12.00 AM - 01.00 PM	66.3	68.9	65.6	64.4
8	01.00 PM - 02.00 PM	68.8	79.1	65.8	64.4
9	02.00 PM - 03.00 PM	66.7	68.9	66.4	65.0
10	03.00 PM - 04.00 PM	68.2	71.5	67.6	65.9
11	04.00 PM - 05.00 PM	68.2	71.1	67.9	65.8
12	05.00 PM - 06.00 PM	73.8	78.6	77.3	66.6
13	06.00 PM - 07.00 PM	68.4	72.2	68.1	64.6
14	07.00 PM - 08.00 PM	66.9	71.8	66.1	62.0
15	08.00 PM - 09.00 PM	64.8	72.3	62.6	59.5
16	09.00 PM - 10.00 PM	59.3	61.9	59.5	56.4
17	10.00 PM - 11.00 PM	56.2	59.5	56.0	52.8
18	11.00 PM - 12.00 PM	52.7	56.5	53.5	46.9
19	12.00 PM - 01.00 AM	49.8	56.0	49.5	45.2
20	01.00 AM - 02.00 AM	51.3	57.9	52.7	41.8
21	02.00 AM - 03.00 AM	51.2	55.5	52.9	45.2
22	03.00 AM - 04.00 AM	56.2	59.8	56.4	52.0
23	04.00 AM - 05.00 AM	60.3	64.1	60.6	55.9
24	05.00 AM - 06.00 AM	64.3	66.6	64.3	62.4



Verified By



  
F.P. Yocco  
In-Charge, Quality  
COCHIN TEST HOUSE

End of Report

- Result relate to the sample tested.
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### SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/15/04/313

Issue Date : April 25, 2015

Name and Address of customer : M/S KITCO LTD, PUTHIYA ROAD,  
VENNALA, KOCHI - 682 028

Sample Drawn By : Cochin Test House

Monitoring station : N 10°00.75' E 076°19.461"

Sample code : 15/NN/313

Date of Monitoring : April 16 & 17, 2015

SL NO	Leq Day Time	Leq Night Time	Leq(DN) Day and Night
1	69.5	58.2	69.0

End of report

Verified



42-02  
K.A. Yousuf  
Authorized Signatory  
COCHIN TEST HOUSE

- Result relate to the sample tested.
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Laboratory Approved by Kerala State Pollution Control Board ('A' Grade)

### AMBIENT AIR QUALITY MONITORING REPORT

Report No : CTH/LR/15/04/314

Issue Date : April 25, 2015

Issued To:

M/S. KITCO LTD, PUTHIYA ROAD,  
VENNALA, KOCHI - 682 028

Lab Identification No.	15/NN/314
Monitoring Station	N 09° 59.609' E 76° 19.494'
Monitoring Date	April 16 - 17, 2015
Monitored By	Cochin Test House

Sl.No	Parameters	Unit	Method	Result		
				10AM - 6PM	6PM - 2AM	2AM - 10AM
1	SO <sub>2</sub>	µg/m <sup>3</sup>	IS:5182(Pt.2)-2009	13.18	14.65	12.21
2	NO <sub>x</sub>	µg/m <sup>3</sup>	IS:5182(Pt.6)-2006	15.86	19.73	18.57
3	CO	mg/m <sup>3</sup>	IS:5182(Pt.10)-2009	BDL(MDL-2.29)	BDL(MDL-2.29)	BDL(MDL-2.29)
4	PM <sub>10</sub>	µg/m <sup>3</sup>	IS:5182(Pt.23)-2006	126.92 (24 hrs Sampling)		
5	PM <sub>2.5</sub>	µg/m <sup>3</sup>	USEPA	59.42 (24 hrs Sampling)		

BDL - Below Detection Limit; MDL - Minimum Detection Limit.

End of Report

Verified By



Y. P. YR006  
Authorized Signatory  
COCHIN TEST HOUSE

- Result relate to the sample tested.
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# COCHIN TEST HOUSE

ANALYTICAL SERVICES TESTING LABORATORY

V / 78, Kollanpady, Murungalparambu Road, Inumpanam P.O., Kochi - 682 309

Mob.: 9446332558, 9387381780, Tel.: 0484 - 2782672

E-mail: cochinesthouse1@gmail.com, Web: www.cochintesthouse.com



Certificate No.: 12345, 1-2011

■ NABL accredited as per ISO / IEC 17025 : 2005 ■ Laboratory Approved by Kerala State Pollution Control Board ('A' Grade)

## TEST REPORTS

Report No : CH/LR/15/05/319

Issue Date : May 21, 2015

Name and Address of customer

Sample Drawn By

Monitoring station

Particulars of the sample

Sample code

Date of receipt of sample

Dates of Analysis

Description of the sample by the customer

M/S. KITCO LTD, PUTHIYA ROAD,

VENNALA, KOCHI - 682 028

Cochin Test House

N10°00.663" E 076°19.464

Water Sample

15/05/2015

May 16, 2015

16.05.2015 - 21.05.2015

Bore Well Water

Sl.No.	Parameters	Unit	Method	Result
1	Colour	Colour units	IS: 3025 (Pt. 4)	5.0
2	Odour		IS: 3025 (Pt. 5)	Objectionable
3	Turbidity	NTU	IS: 3025 (Pt. 10)	1.0
4	pH@25°C		IS: 3025 (Pt. 11)	6.64
5	Total Hardness as CaCO <sub>3</sub>	mg/l	IS: 3025 (Pt. 21)	18.72
6	Iron as Fe	mg/l	IS: 3025 (Pt. 53)	BDL(MDL - 0.08)
7	Chloride as Cl	mg/l	IS: 3025 (Pt. 32)	14.35
8	Total Dissolved Solids	mg/l	IS: 3025 (Pt. 16)	62.0
9	Sulphate as SO <sub>4</sub>	mg/l	APHA-22 <sup>nd</sup> Ed. 2012 4500 SO <sub>4</sub> <sup>2-</sup> E	2.28
10	Alkalinity as CaCO <sub>3</sub>	mg/l	IS: 3025 (Pt. 23)	20.9
11	Electrical Conductivity @ 25°C	Micromhos/cm	IS: 3025 (Pt. 14)	118.0
12	Calcium as Ca	mg/l	IS: 3025 (Pt. 40)	4.98
13	Magnesium as Mg	mg/l	IS: 3025 (Pt. 46)	1.52
14	Residual Free Chlorine	mg/l	IS: 3025 (Pt. 26)	BDL(MDL - 1.0)
15	Reactive Silica as SiO <sub>2</sub>	mg/l	IS: 3025 (Pt. 35)	4.93
16	Total Phosphate as P	mg/l	APHA-22 <sup>nd</sup> Ed. 2012 4500-P(C)	0.7

BDL - Below Detection Limit; MDL - Minimum Detection Limit

End of report

Verified By



4-5  
S.P. Varghese  
Assistant Manager  
Cochin Test House

NOTE : This test results relate only to the sample submitted for analysis.

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STANDARD Fee

DATE

## SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/15/S/379

Issue Date : May 23, 2015

Name and Address of customer

M/S KITCO LTD, PUTHIYA ROAD,  
VENNALAKOCHI - 682 028

Sample Drawn By

Cochin Test House

Monitoring station

N 10°00.75" E 076°19.461"

Sample code

15/NN/379

Date of Monitoring

May 16 & 17, 2015

SLNO	TIME	Leq	L10	L50	L90
1	06:00 AM - 07:00 AM	69.2	73.6	69.0	66.1
2	07:00 AM - 08:00 AM	73.8	78.6	77.3	66.6
3	08:00 AM - 09:00 AM	68.4	72.2	68.1	64.6
4	09:00 AM - 10:00 AM	66.9	71.8	66.1	62.0
5	10:00 AM - 11:00 AM	64.8	72.3	62.6	59.5
6	11:00 AM - 12:00 PM	59.3	61.9	59.5	56.4
7	12:00 PM - 01:00 PM	56.2	59.5	56.0	52.8
8	01:00 PM - 02:00 PM	52.7	56.5	53.5	46.9
9	02:00 PM - 03:00 PM	49.8	56.0	49.5	45.2
10	03:00 PM - 04:00 PM	51.3	57.9	52.7	41.8
11	04:00 PM - 05:00 PM	51.2	55.5	52.9	45.2
12	05:00 PM - 06:00 PM	56.2	59.8	56.4	52.0
13	06:00 PM - 07:00 PM	60.3	64.1	60.6	55.9
14	07:00 PM - 08:00 PM	64.3	66.6	64.3	62.4
15	08:00 PM - 09:00 PM	68.0	70.1	68.1	65.7
16	09:00 PM - 10:00 PM	69.0	71.0	68.8	67.6
17	10:00 PM - 11:00 PM	73.6	78.1	74.5	68.1
18	11:00 PM - 12:00 PM	72.0	77.6	77.0	66.7
19	12:00 PM - 01:00 AM	67.2	68.8	66.7	65.2
20	01:00 AM - 02:00 AM	66.3	67.9	66.2	65.1
21	02:00 AM - 03:00 AM	63.8	66.6	64.5	62.4
22	03:00 AM - 04:00 AM	67.0	68.6	66.7	65.1
23	04:00 AM - 05:00 AM	67.4	69.4	67.3	65.4
24	05:00 AM - 06:00 AM	72.5	77.5	76.9	65.2

End of Report

Verified by



K.P. Yacob  
Authorized Signatory  
COCHIN TEST HOUSE

Result relate to the sample tested.

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Laboratory Approved by Kerala State Pollution Control Board (A' Grade)

## SOUND LEVEL MONITORING REPORT

Report No. : CTH/LA/15/05/379

Issue Date: May 23, 2015

Name and Address of customer

M/S. JOTCO LTD, PUTHIYA ROAD.

Sample Drawn By:

VENNALA, KOCHI - 682 028

Monitoring station

Cochin Test House

Sample code

N 10°00.75' E 076°19.461'

Date of Monitoring

15/NN/379

May 16 &amp; 17, 2015

SL.NO	Leg Day Time	Leg Night Time	Leg(DN) Day and Night
1	66.0	69.9	75.9
End of report			

End of report

Verstehen



- Result relate to the sample tested.
- This test report shall not be reproduced except in full, without the written approval of the laboratory.



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## **ANNEXURE XIV**

### **The Affidavit produced by the Proponent**





കേരളം KERALA

**AFFIDAVIT**

AN 643199

I, Alukkas Varghese Joy (Joy Alukkas), Director, M/s Joyalukkas Lifestyle Developers Pvt. Ltd., having its registered office at A&B Peevees Triton, Marine Drive, Cochin - 31, in the building project, which is being executed in Re-survey no. 42/1, Block no. 09 of Vazhakkala village, Kanayannur Taluk, Ennakulam District, Kerala, on behalf of the company, do solemnly declared and affirms before the State Environmental Impact Assessment Authority the following:

1. Environmental Monitoring Cell for the project referred above is already functional.
2. Lighting system shall be provided.
3. Measures to minimize dust emissions is being provided and will continue do till the end of project.
4. Adequate safety measures for the construction workers is being provided and will continue do till the end of project.
5. The following shall be uploaded the in the web site.
  - a. EC order
  - b. Status of compliance of stipulated EC conditions.
  - c. Result of monitoring data and update the same periodically.
6. Shall send the copy of the EC to the LSG concerned.

Place: Ennakulam.

Solemnly affirmed and signed before me by the deponent, at my office at Ennakulam, on this the 14th day of November, 2014.

  
Alukkas Varghese Joy





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