



**HALF YEARLY COMPLIANCE REPORT FOR PROPOSED
RESDIDENTIAL PROJECT OF JOYALUKKAS
AT
VAZHAKALA**

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

May 2016

Joyalukkas
Lifestyle developers

Joyalukkas Lifestyle Developers Pvt. Ltd.,
A & B, Peevees Triton,
Marine Drive, Kochi - 682 031.

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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. Joyalukkas 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 14th November, 2012. The conditions lay out while granting the clearance along with the compliance to the same is followed.

Sl.No	Condition	Compliance
A. Specific Conditions		
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 Annexure I . The sanction for the construction near 110Kv tower line is obtained from KSEB and the same is attached in Annexure II .
B. General Conditions		
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 should be formed and made functional.	Environmental Monitoring Cell had already constituted and it is working with full fledge. The detail of the Cell is presented in Annexure III 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 Annexure IV 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 Annexure V .
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 provisions of Environmental (protection) Act,1986, to ensure effective implementation of the suggested safe guard measure in the time bound and satisfactory manner	Project proponent will comply with any additional conditions or modifications of existing conditions up to the satisfaction of SEIAA.
7	All other statutory clearances shall be obtained , as applicable , by the project proponent\s from the respective competent	All statutory clearances applicable to the project, was already obtained at the time of first half yearly compliance and are annexed as follows : Building permit obtained from Thrikkakara municipality as Annexure VI for

	authorities	reference. No Objection Certificate from Fire and Rescue Service headquarters, Trivandrum and No Objection Certificate for height clearance from headquarters southern naval command, Kochi as Annexure VII for reference.
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 pollution) Act 1981,the Environmental (protection) Act ,1986, the public Liability (Insurance)Act,1991 and EIA notification ,2006	The Consent to Establish from KSPCB is obtained and attached as Annexure VIII .
9	The project proponent should advertise at least two local newspapers widely circulated in the region ,one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and 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 www.seiaakerala.org .The 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.	Joy Alukkas has already advertised in two local newspapers and the copy of the same is presented as Annexure IX 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 Annexure X .
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.	Proponent has already sent a copy of the clearance letter to concerned municipality and the copy of the communication made is attached in Annexure XI . The clearance letter as well as the compliance status is already available in the website of the company through the link: http://www.joyalukkaslifestyledevelopers.com/ . A copy of the web display is presented as Annexure XII for reference.
11	The proponent shall submit six monthly report on compliance of the stipulated EC conditions 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	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 Climate Change, Kerala. The results of Environmental monitoring is attached with this report as Annexure XIII .

	sent to the Directorate of Environment and Climate Change, Govt. of Kerala.	
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 Annexure XIV for reference.

ANNEXURE I

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

Photographs of permanent fencing provided around the tower line



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:-dyceiekm@ceikerala.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 disallowance or revision by the State Govt as per Regulation 116 of CEA (Measures Relating Safety and Electric Supply) Regulations 2010.

To

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



K.P. Raghavan
Deputy Chief Electrical Inspector

Copy to:

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

Case No.16728
e.solutions-7.5

ANNEXURE III
Environmental monitoring cell details

ENVIRONMENTAL MONITORING CELL

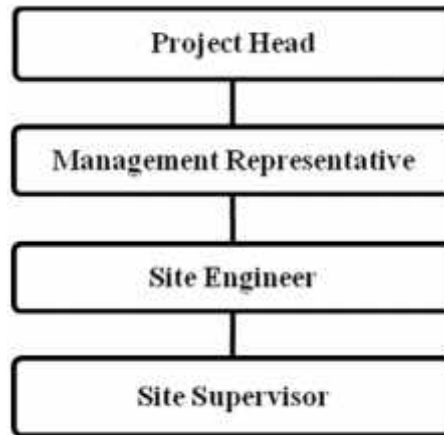
1.1 General

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.
-

1.2 EMC structure



1.3 The roles and responsibilities of each of the EMC officer

1.3.1 Project Head –Mr.Sudeep

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.
-

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 – Mr Manu P.G

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.
-

1.3.4 Site Supervisor – Mr. Mohammed Saleem

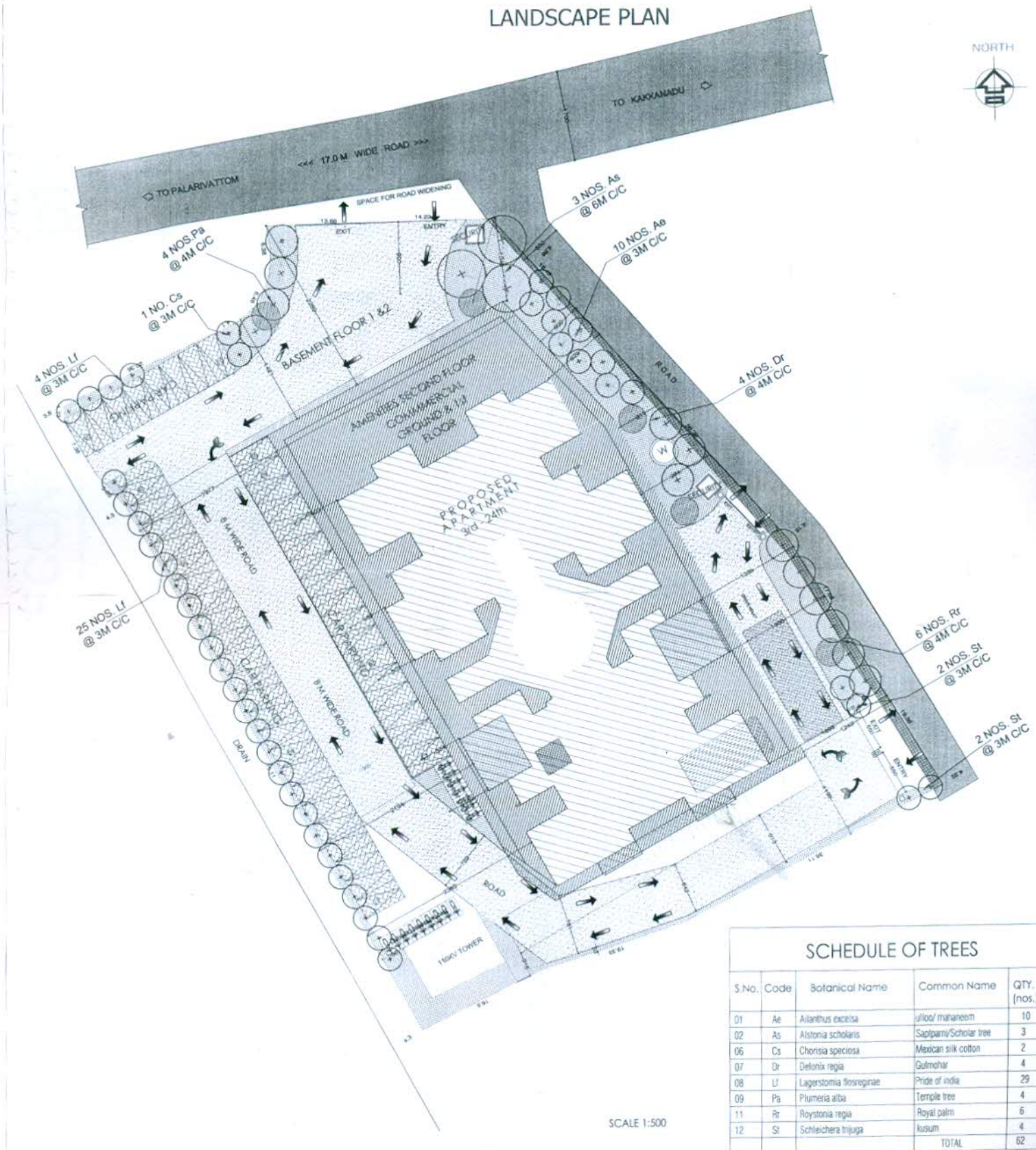
Site supervisor and reporting to the Site Engineer of PMC and is responsible for execution of project activities such that

- 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.

ANNEXURE IV

Landscape map of the proposed project

LANDSCAPE PLAN



SCHEDULE OF TREES

S.No.	Code	Botanical Name	Common Name	QTY. (nos.)
01	Ae	<i>Ailanthus excelsa</i>	Allo/ maraneem	10
02	As	<i>Alstonia scholaris</i>	Saptami/Scholar tree	3
06	Cs	<i>Chorisia speciosa</i>	Mexican silk cotton	2
07	Dr	<i>Delonix regia</i>	Gulmohar	4
08	Lf	<i>Lagerstomia flosreginae</i>	Pride of india	29
09	Pa	<i>Plumeria alba</i>	Temple tree	4
11	Rr	<i>Roystonea regia</i>	Royal palm	6
12	St	<i>Schleichera trijuga</i>	kusum	4
			TOTAL	62

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
13th June, 2014.

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

Dear Sir,

Sub: Environmental Clearance for the Proposed "Gold Tower" at Vazhakkala Village, Kanayannur Taluk, Ernakulum District, Kerala by M/S Joyalukkas India (P) Limited – Reg;.

Ref: SEIAA Letter No: 21/SEIAA/KL/871/2012 dated 14th 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, Ernakulam

ANNEXURE VI
Building permit obtained from Thrikkakara municipality

MUNICIPAL COUNCIL, THRIKKAKARA

APPENDIX C

[See Rule 11(3)]

BUILDING PERMIT

No. BA/65/1/2011

Date 10/2/12

Ref:- Application dated from Sri/Smt JOYAKUKAS LIFESTYLE DEVELOPERS PRIVATE LIMITED

Permission is granted for the erection / re-erection / addition / alteration / demolition of building / hut / digging of well / Residential Flats (specify the construction) in building

No. or near the building No. in Survey No

42/1, Vazhakkal Village Taluk Kanayannur

District Eranakulam for Residence

(specify the occupancy) purpose, subject to the conditions stated below:

- (1) 1). IF ANY VIOLATION ARISES IN FUTURE THE PERMIT WILL BE CANCELLED & NECESSARY
- (2) STEPS WILL BE TAKEN WITHOUT NOTICE
- (3) 2). PROVIDE RAINWATER HARVESTING
- (4) TANK & WASTE DISPOSAL UNIT
- 3). BUILDING CONSTRUCTION SHOULD BE
- UNDER PROVISIONS OF KMBR 1999

PF: - 1,60,00,000/-

Rec. no: 1400055 Dtd 16/2/12

Ownership changed upon order
no: BA/65/1/2011 Dtd 16/5/14

This permit already issued

Plinth area of the building is as follows:-

Basement floor 2 Area - 4728 m²

Basement floor 1 Area - 4728 m²

Ground Floor Area - 2720 m²

First Floor Area - 2720 m²

Second Floor Area - 2720 m²

Typical Floor Area - 31020 m² (1410x22)

Place : Thrikkakara

Date : 16/5/14



Signature and name of Secretary
R. PRAKASAM
Municipal Engineer
Thrikkakara Municipality

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

(2) The application for renewal shall be submitted to the Secretary in white paper, typed or written in ink affixed with necessary court fee stamp and accompanied by copy of permit and approved plan.

(3) The fee for renewal of permit shall be fifty percent of the prevailing permit fee.

(4) The permits issued under the Kerala Building Rules, 1984 and remaining valid at the commencement of these rules shall be deemed to have been issued under these rules and may be renewed for like period and on like terms as a permit issued under these rules.

തൃക്കാക്കര നഗരസഭ സെക്രട്ടറിയുടെ ഉത്തരവ് നടപടികൾ

വിഷയം.- കെട്ടിടനിർമ്മാണാനുമതിയുടെ കാലാവധി ദീർഘിപ്പിക്കുന്നത് സംബന്ധിച്ച്.

നമ്പർ:- BA/65/1/2011

തീയതി. 14/5/2015

പരാമർശം- 1 JOY ALUKKAL LIFESTYLE DEVELOPERS PVT LTD - 23-01-15 - പരാമർശം

ഉത്തരവ്

തൃക്കാക്കര നഗരസഭ അതിർത്തിയിൽ കാക്കനാട്/ വാഴക്കാല വില്ലേജിൽ കണയന്നൂർ താലൂക്കിൽ 42/1 സർവ്വേ നമ്പറിൽ പെട്ട സ്ഥലത്തു നിർമ്മിക്കുവാനുദ്ദേശിക്കുന്ന കെട്ടിടത്തിന്റെ നിർമ്മാണാനുമതിയുടെ കാലാവധി പരാമർശം അപേക്ഷ പരിഗണിച്ചും, റിന്യൂവൽ ഫീസിനത്തിൽ 49000/- രൂപ 115.02.04.674 Dtd 13/5/15. പ്രകാരം അടച്ചതിന്റെ അടിസ്ഥാനത്തിൽ 16-2-2015 മുതൽ 9-02-2018 വരെയ്ക്കും ദീർഘിപ്പിച്ചുകൊണ്ട് ഇതിനാൽ ഉത്തരവാകുന്നു.




 MURALI KRISHNA
 Municipal Engineer
 തൃക്കാക്കര നഗരസഭ
 Thirukakkara Municipality
 Ph 2422383

JOY ALUKKAL LIFESTYLE
DEVELOPERS PVT LTD
ERNAKULAM

SECRETARY'S FILE


 14.5.2015

ANNEXURE VII
No Objection Certificate from Fire and Rescue Service
& No Objection Certificate for height clearance

“ജരണഭാഷ - മാതൃഭാഷ”

Fire & Rescue Services Hqrs,
Housing Board Junction,
Thiruvananthapuram-1
Phone:0471-2320872.
Email-keralafireandrescueservices@gmail.com
Dated: 04.05.2013.

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 3rd floor proposed for service & Amenity purpose) in Survey No.42/1 in Vazhakkala 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, 06/05/2013
DIRECTOR (ADMN.)**

M.6/S 577549

GOVERNMENT OF KERALA

Tele: 2872049

Reply should be addressed to
the Flag Officer Commanding-in-Chief

Headquarters
Southern Naval Command
Kochi - 682 004

Quoting: AO/ 999/ HC

29 Apr 16

M/s Joy Alukkas Life Style Developers Pvt Ltd.
Door No. 40/ 2096/A & B,
Peevees Triton, Marine Drive
Ernakulam
Kochi - 682031

**ISSUE OF NOC FOR HEIGHT CLEARANCE FOR THE CONSTRUCTION OF
NEW BUILDING PROJECT 'GOLD TOWER' SITUATED AT VAZHAKKALA, ERNAKULAM**

1. Refer to your letter No. JLD/ GT/ LTR/ 002/ 2015- 16 dated 19 Oct 15 regarding construction of New Building Project in Survey/ Plot No. 42/1, Block No. 09 of Vazhakkala Village, Kanayannur Taluk, Ernakulam District, Kerala.
2. The Indian Navy has no objection for the proposed construction at a distance of **9.1 Kms** on a bearing of **041°** from Aerodrome Reference Point (ARP) upto a maximum height of **96.45 Mtrs Above Mean Sea Level (AMSL) including water tank, aerals, lift-well, etc.**
3. The building is to be marked by day and night during construction and on its completion as per ICAO Annexure 14 Chapter 6 so as to be clearly visible from air. Backup power supply arrangements are also to be made to ensure lighting during prolonged power failures. The details regarding the markings of building may also be obtained from the Senior Air Traffic Control Officer, INS Garuda, Naval Base, Kochi on Tel - 2873182.
4. No Objection Certificate is issued on the express understanding that the site elevation, height of structure including any super structure on top, relative position, distance and bearing from runway end as tendered are correct. If, at any stage, it is established that the said data as tendered by you is different from the one submitted and which could adversely affect aircraft operations, the structure in respect of which NOC has been issued shall have to be demolished at your own cost. The applicant is therefore advised to again verify the site/ground elevation and distance from runway end /ARP before commencement of the construction.
5. The issue of NOC is further subject to the provision of section 9A of the Indian Aircraft Act 1934 (and as amended from time to time), ATMC Circular 06/2012 and Gazette of India Notification SO 84 (E) dated 14 Jan 10 and any amendments issued there under from time to time under which applicant may be called upon by this Headquarters, Southern Naval Command to demolish in whole or part of the structure authorized by this NOC.
6. In addition to the above, you are also requested to ensure the following:
 - (a) No light or combination of lights, which by reason of its intensity, configuration or colour may cause confusion with the aeronautical ground lights of the airport and no reflecting surface which may cause glare/glnt to the aircraft on final approach shall be installed at the site at any time during or after the construction.
 - (b) There should be no electromagnetic transmission of any nature that may cause interference to aircraft / Air Traffic control radiotelephony operation.

(c) Cleared structure be marked and lighted with secondary power supply in accordance with Chapter VI of Annex 14.

(d) Construction of helipad on top of the building, if planned, is to be commenced only after obtaining separate permission for the same.

7. **The NOC for construction of the rooftop helipad is not to be construed as permission for Helicopter operations from the rooftop helipad.** You are required to obtain necessary clearances from various other concerned agencies viz. Fire Dept, Police Dept, Municipal Body (as applicable) and DGCA prior to commencement of helicopter operations from the rooftop helipad.

8. This certificate is valid for a period of **five years** from the date of issue. If the construction does not commence within five years of issue or is found to be in deviation from the original proposal, the NOC shall be deemed null and void. If it is envisaged that the building would take more than five years for completion, you are required to obtain a fresh NOC from this Headquarters prior to expiry of this NOC.

9. The building **Completion Report along with Occupancy Certificate** from Corporation is to be rendered to this Headquarters with a copy to the Commanding Officer INS Garuda, Naval Base, Kochi.

10. This NOC pertains only to safety of aircraft operations from Naval Air Station Kochi (INS Garuda). Since the site of the proposed construction **also** falls **within a distance of 20 Km radius from the Cochin International Airport (CIAL)**, another NOC regarding safety of aircraft operations from CIAL **also** is required to be obtained from CIAL authorities as advised to you by this office letter No AO/999/HC dated 28 Dec 15.



(Subhash Chandra)
Commander
Command Aviation Officer II
for Flag Officer Commanding-in-Chief

Copy to: -

The Chief of the Naval Staff
(for DNAS)
Integrated Headquarters of
Ministry of Defence (Navy)
New Delhi – 110011

The Secretary,
Kochi Municipal Corporation
Near Boat Jetty, Park Avenue Road
Ernakulam, Kochi – 11

The Commanding Officer
INS Garuda

The Managing Director
Cochin International Airport
Kochi Airport P.O.
Ernakulam-683111

ANNEXURE VIII
The Consent to Establish from KSPCB

FILE NO. - PCB/HO/EKM/ICE/32/2014



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: customer@joyalukkas.com Website: www.joyalukkas.com
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 ³ /d
19	Activity	Construction of 176 apartments in B1 + B2 + G + 24 floors with total built up area 45091.38 m ² 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.
- 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 $0.2 \sqrt{kVA}$ 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

ANNEXURE IX
Copies of News Paper Advertisements made on granting of EC



* Madhyamam 14/12/12

2004
 പരമേശ്വരൻ
 പാലി മൃഗ
 മൃഗശാസ്ത്ര പരി
 കീഴ് പരി
 പരിപാടി
 മൃഗശാസ്ത്ര പരി
 പരിപാടി
 മൃഗശാസ്ത്ര പരി
 പരിപാടി
 മൃഗശാസ്ത്ര പരി
 പരിപാടി

മിത

സംസ്ഥാന വിപ
 ലാസ 20 കേര
 ലക്ഷ്യമാക്കി
 സംസ്ഥാന വിപ
 ലാസ 20 കേര
 ലക്ഷ്യമാക്കി
 സംസ്ഥാന വിപ
 ലാസ 20 കേര
 ലക്ഷ്യമാക്കി

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 ലാസ 20 കേര
 ലക്ഷ്യമാക്കി
 സംസ്ഥാന വിപ
 ലാസ 20 കേര
 ലക്ഷ്യമാക്കി
 സംസ്ഥാന വിപ
 ലാസ 20 കേര
 ലക്ഷ്യമാക്കി

സംസ്ഥാന വിപ ലാസ 20 കേര ലക്ഷ്യമാക്കി സംസ്ഥാന വിപ ലാസ 20 കേര ലക്ഷ്യമാക്കി

സംസ്ഥാന വിപ
 ലാസ 20 കേര
 ലക്ഷ്യമാക്കി
 സംസ്ഥാന വിപ
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 ലക്ഷ്യമാക്കി
 സംസ്ഥാന വിപ
 ലാസ 20 കേര
 ലക്ഷ്യമാക്കി

പൊതു അറിയിപ്പ്

എറണാകുളം ജില്ലയിൽ കോയമ്പുര താലൂക്കിൽ വെള്ളാപ്പള്ളി പഞ്ചായത്ത് വില്ലേജ് റിസർവ്വേഷൻ നമ്പർ 42/1. മണ്ണാക്കി നമ്പർ 5 ന് തുറന്നിട്ടുള്ളതാണ് ഇത്തരം പ്രൈവറ്റ് ലിമിറ്റഡ് നിർമ്മാണമാണ്. ഉദ്ദേശിക്കുന്നത് പ്രൈവറ്റ് പ്രൈവറ്റ് ഓഫീസും കൺസ്ട്രക്ഷൻ ആയ ബിൽഡിംഗിന് സൂപ്പർ എഞ്ചിനീയറോടൊത്ത് ഇംപാക്റ്റ് അഡ്വൈസ് അനുവദിച്ചിട്ടുണ്ട്. കെട്ടിടത്തിൽ നിന്നും 14.12.2012 ന് 21/SEIA/KL/071/2012-ാം നമ്പർ അനുവദിച്ചിട്ടുണ്ട്. (എഞ്ചിനീയറോടൊത്ത് ക്ലിയറൻസ്) നൽകിയിട്ടുള്ളതാണ്. വിവരം ഇതിനാൽ അറിയിച്ചു കൊള്ളുന്നു. ഈ അനുവദിച്ച കോപ്പി എഞ്ചിനീയറോടൊത്ത് അത് കൈമാറ്റ ചെയ്ത്, കെട്ടിട സ്ഥലത്തിൽ നിന്നും www.seiaakerala.org എന്ന വെബ്സൈറ്റിൽ നിന്നും ലഭ്യമാകുന്നതാണ്.

* Madhyamam 14/12/12

FICN Case: First Accused to Turn Approver

Probe to Cross State Boundaries

By S. S. Sankar

The first accused in the FICN case, a former official of the Central Bank of India, has turned approver. The probe into the case is expected to cross state boundaries.

The Central Bank of India (CBI) has filed a charge sheet against the first accused in the FICN case. The accused is a former official of the CBI and is alleged to have been involved in the case.

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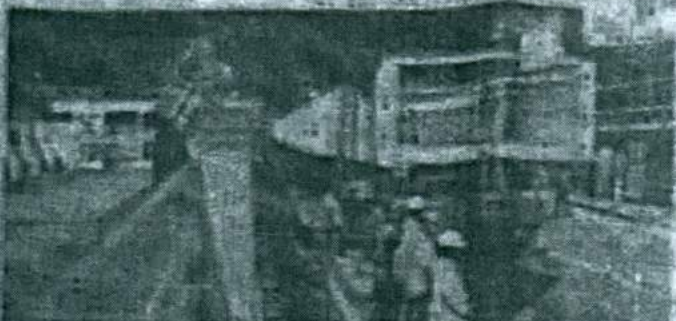
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FLIGHT DELAYED

The flight from Chennai to Bangalore was delayed by two hours due to technical problems. The airline has apologized for the inconvenience.



A view of the ship docked at the port, with the ship's name visible on the hull.

Declining Sex Ratio to be Tackled

By S. S. Sankar

The declining sex ratio in India is a major concern for the government. Steps are being taken to tackle the issue and improve the sex ratio.

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Times of India 14/12/2012

Ex-Customs Official Held for Graft

By S. S. Sankar

A former customs official has been arrested for alleged graft. The case is being investigated by the CBI.

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COMPENSATION CASE: HC RAPS MINISTRY

By S. S. Sankar

The High Court has ruled against the Ministry in a compensation case. The Ministry is required to pay compensation to the affected party.



A photograph of a person, possibly a judge or official, sitting at a desk.

The High Court has ruled against the Ministry in a compensation case. The Ministry is required to pay compensation to the affected party.

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Bank Staffer Gets 18-yr Jail Term

By S. S. Sankar

A bank staffer has been sentenced to 18 years in jail for a criminal offense. The court has found the staffer guilty of the crime.

KERALA PROFESSIONAL SERVICES ASSOCIATION
MANAGEMENT ASSOCIATION
The Association is a registered society under the Societies Registration Act, 1860. It is a non-profit organization and its primary objective is to promote the welfare and interests of the professional services in Kerala.

CITY DECOR
We provide a wide range of decorative items for your home or office. Our products are of high quality and are available at competitive prices. Contact us today for more information.

THE SREENARAYANATRUSTS
POST BOX NO. 5, KOLLAM, KERALA
WANTED
We are looking for a person who is interested in the work of the trusts. The person should be a resident of Kollam and should have a good knowledge of the local language.

NOTICE
The following notice is being published for the information of the public. The notice relates to the appointment of a person to a post in the government service.

INDIAN BANK ASSOCIATION
The Indian Bank Association is a registered society under the Societies Registration Act, 1860. It is a non-profit organization and its primary objective is to promote the welfare and interests of the Indian banks in India.

CENTRAL BOARD OF SECONDARY EDUCATION
The Central Board of Secondary Education is a government body that is responsible for the regulation and supervision of secondary education in India. It is a non-profit organization and its primary objective is to promote the welfare and interests of the students in India.

WOMEN'S EMPOWERMENT SOCIETY
The Women's Empowerment Society is a non-profit organization that is dedicated to the empowerment of women in India. The society provides a wide range of services to women, including education, training, and financial support.

ADVERTISING
We provide a wide range of advertising services for your business. Our services include print advertising, television advertising, and internet advertising. Contact us today for more information.

Photo Exhibition from Today

By S. S. Sankar

A photo exhibition is being held from today. The exhibition features a collection of photographs that depict the life and work of a famous person. The exhibition is open to the public and is free of charge.

THE SREENARAYANATRUSTS POST BOX NO. 5, KOLLAM, KERALA

WANTED
We are looking for a person who is interested in the work of the trusts. The person should be a resident of Kollam and should have a good knowledge of the local language.

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 Emakulam (954), Thrissur (948), Idukki (958), Alappuzha (947) and Kottayam (957). The Health Department should take steps to create awareness about the issue, considering the prevalence of the preference 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: Juno Pallan, senior divisional manager, Kozhikode, and Gopikrishnan, divisional manager, Thiruvananthapuram, were elected state president and secretary of the United India Insurance Officers' Association (Kerala), states an official release.

Gopikrishnan



Juno Pallan, states 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 ENT ASSOCIATION

Campus, Modakkallur, PO: Atholi, Calicut-673315.
Email: kpmcma1@gmail.com, Website: www.kpmcma.net

TO POST GRADUATE DIPLOMA COURSES 2013

Candidates for the All India Entrance test to be Graduate Medical Degree/Diploma courses for the member colleges of the Kerala Private Medical Council (KPMCA). Prospectus and Application can be had onwards. Last date for receipt of application is www.kpmcma.net.

If any passed by appropriate Authorities/Courts of Law.
Secretary, KPMCA

NOTICE

This is to inform to the General Public that the proposed construction of a residential cum commercial building project at Re-survey No. 42/1, Block No. 9 of Vazhakkala Village, Kanayannur Taluk, Emakulam District, Kerala being developed by M/s Joyalukkas India Pvt. Ltd. is accorded with ENVIRONMENTAL CLEARANCE by State Environment Impact Assessment Authority, Kerala vide Order No. 21/SEIAA/KL/871/2012 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 seen on the website of the Authority at www.seiaakerala.org

NOTICE

STRIKE BY BANK EMPLOYEES ON 20th DECEMBER 2012

Indian Banks' Association (IBA), on behalf of its member banks, wishes to inform the public in general and banks 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 20th December, 2012 raising certain demands. At IBA level, efforts are being made to avert the proposed strike. In case, the strike materializes, the working of the banks where the Unions / Association have majority membership may get affected on 20th 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

X Times of India 14/12/2012

ANNEXUR X
Communication to SEIAA on News Paper
Advertisements

26.03.2013

From,

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

To,

The Secretary,
SEAC, Kerala

Sub :- 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.

Sir,

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.Jose

Executive Director.

ANNEXURE XI
Copies of Communication on granting of EC by SEIAA to
municipality

Joyalukkas
World's favourite jeweller

17th December, 2012.

Municipal Secretary,
Thrikkakara 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:

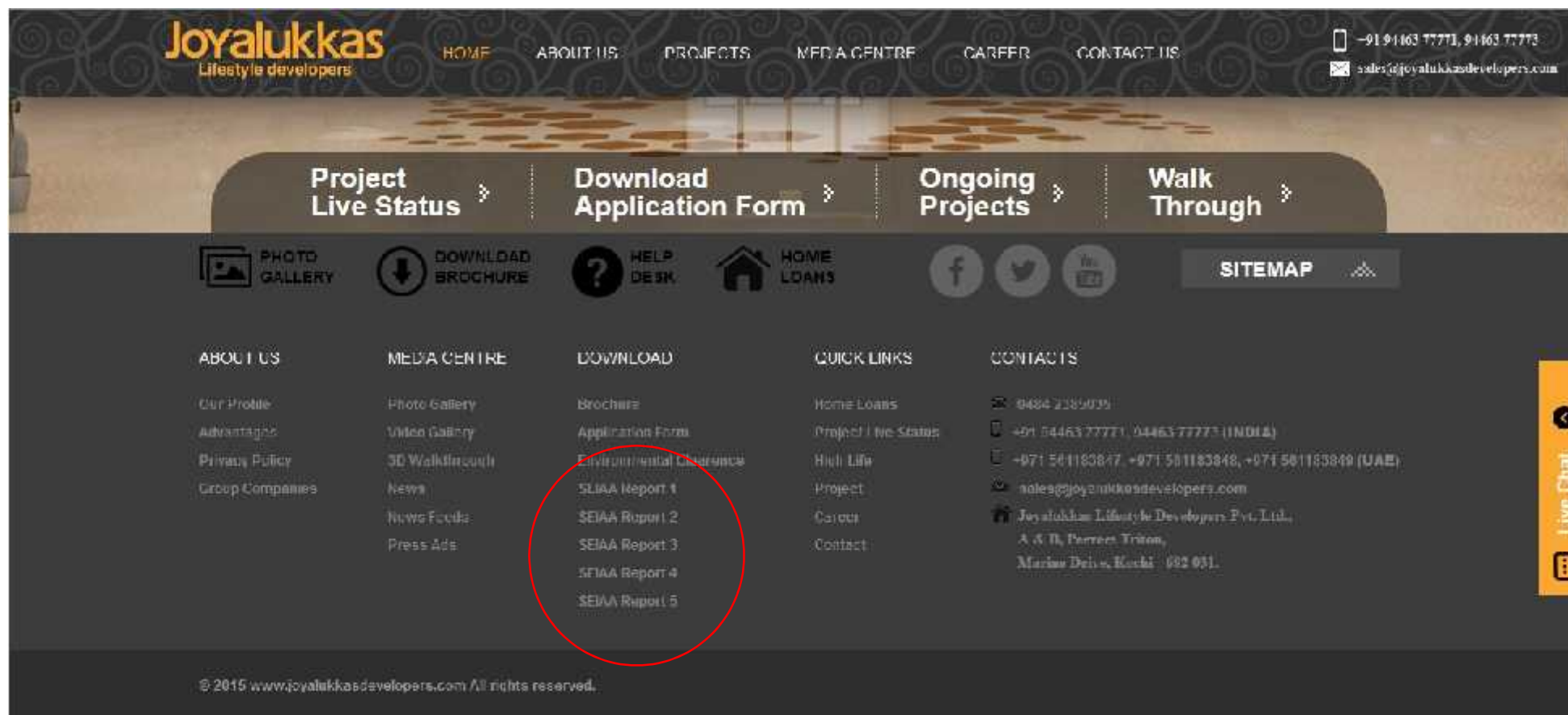
Mumbai, Gurgaon, Bangalore, Mangalore, Hyderabad, Vijayawada, Chennai, Coimbatore, Madurai, Salem, Tirunelveli, Vellore, Karur, Kancheepuram, Puducherry, Cochin, Angamaly, Thiruvalla, Kollam, Kottayam, Thrissur, Thiruvananthapuram.

Registered Office:

Joyalukkas India Limited,
Marine Drive, Kochi, India-682031
Tel: 0484 2385035, Fax: 0484 2385032
E-mail: customercare@joyalukkas.com
Website: www.joyalukkasindia.com

ANNEXURE XII
A copy of the Company Website Display

Screen Shot Image of the website site



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.

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

AMBIENT AIR QUALITY MONITORING REPORT

Report No : CTH/LR/15/12/1147

Issue Date : January 08, 2016

Issued To:

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

Customer ref : Ambient air monitoring report of Gold Tower at Vazhakkala.

Lab Identification No.	15/NN/1147
Monitoring Station	N 09° 59.609" E 76° 19.494"
Monitoring Date	December 30-31, 2016
Monitored By	Cochin Test House


Sl.No	Parameters	Unit	Method	Result		
				10AM – 6PM	6PM – 2AM	2AM – 10AM
1	SO ₂	µg/m ³	IS:5182(Pt.2):2009	12.95	14.25	13.95
2	NO _x	µg/m ³	IS:5182(Pt.6):2006	15.72	16.36	17.22
3	CO	mg/m ³	IS:5182(Pt.10):2009	BDL(MD-2.29)	BDL(MDL-2.29)	BDL(MDL-2.29)
4	PM ₁₀	µg/m ³	IS:5182(Pt.23):2006	125.64 (24 hrs Sampling)		
5	PM _{2.5}	µg/m ³	USEPA	53.45 (24 hrs Sampling)		

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

End of Report

Verified By 




K.P. Yacob
Authorised Signatory
COCHIN TEST HOUSE

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TEST REPORT

Report No : CTH/LR/15/12/1146

Issue Date : January 08, 2016

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 : 15/12/1146

Date of receipt of sample : December 31, 2015

Dates of Analysis : 31.12.2015 – 08.01.2016

Description of the sample by the customer : Ground Water

Customer Ref : Water Sample Analysis report of Gold Tower at Vazhakkala.

Sl.No.	Parameters	Unit	Method	Result
1	Colour	Colour units	IS :3025 (Pt.4)	100.0
2	Odour	-	IS:3025 (Pt. 5)	Unobjectionable
3	Turbidity	NTU	IS 3025 (Pt.10)	148.0
4	pH@25°C	-	IS: 3025 (Pt.11)	6.76
5	Total Hardness as CaCO ₃	mg/l	IS 3025 (Pt. 21)	737.55
6	Iron as Fe	mg/l	IS :3025 (Pt.53)	4.72
7	Chloride as Cl	mg/l	IS: 3025 (Pt.32)	870.79
8	Total Dissolved Solids.	mg/l	IS :3025 (Pt.16)	1600.0
9	Sulphate as SO ₄	mg/l	APHA:22 nd Ed. 2012 4500 SO ₄ ²⁻ E	76.45
10	Alkalinity as CaCO ₃	mg/l	IS :3025(Pt.23)	141.6
11	Electrical Conductivity @ 25°C	Micromhos/cm	IS :3025(Pt.14)	3000.0
12	Calcium as Ca	mg/l	IS :3025(Pt.40)	160.58
13	Magnesium as Mg	mg/l	IS :3025(Pt.46)	81.96
14	Residual Free Chlorine	mg/l	IS :3025(Pt.26)	BDL(MDL – 1.0)
15	Reactive Silica as SiO ₂	mg/l	IS :3025(Pt.35)	56.58
16	Total Phosphate as P	mg/l	APHA:22 nd Ed. 2012 4500-P(C)	1.57


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

End of report

Verified By

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K.P. Yacob
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SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/15/12/1148

Issue Date : January 08, 2016

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/1148

Date of Monitoring :

December 30 & 31, 2015

Customer ref : Noise Level monitoring report of Gold Tower at Vazhakkala.

SL.NO	TIME	Leq	L10	L50	L90
1	06.00 AM - 07.00 AM	71.4	79.4	70.1	67.1
2	07.00 AM - 08.00 AM	72.4	80.4	71.1	68.1
3	08.00 AM - 09.00 AM	73.4	81.4	72.1	69.1
4	09.00 AM - 10.00 AM	74.4	82.4	73.1	70.1
5	10.00 AM - 11.00 AM	65.5	73.7	62.6	59.8
6	11.00 AM - 12.00 AM	64.6	75.2	62.1	56.3
7	12.00 AM - 01.00 PM	60.8	70.8	59.4	54.4
8	01.00 PM - 02.00 PM	63.1	79.4	57.2	52.0
9	02.00 PM - 03.00 PM	61.9	79.4	60.5	45.5
10	03.00 PM - 04.00 PM	61.9	79.4	61.5	45.2
11	04.00 PM - 05.00 PM	63.6	79.6	57.2	49.8
12	05.00 PM - 06.00 PM	65.8	80.3	62.6	54.6
13	06.00 PM - 07.00 PM	63.7	69.3	62.6	59.5
14	07.00 PM - 08.00 PM	66.4	70.1	66.0	63.2
15	08.00 PM - 09.00 PM	68.9	71.4	68.9	66.4
16	09.00 PM - 10.00 PM	66.6	70.3	68.1	54.2
17	10.00 PM - 11.00 PM	70.1	77.7	75.2	48.6
18	11.00 PM - 12.00 PM	65.5	71.1	67.1	48.6
19	12.00 PM - 01.00 AM	63.2	68.5	65.4	48.6
20	01.00 AM - 02.00 AM	63.4	69.2	65.8	48.6
21	02.00 AM - 03.00 AM	63.4	70.2	65.2	48.6
22	03.00 AM - 04.00 AM	64.4	71.2	67.3	48.6
23	04.00 AM - 05.00 AM	65.3	72.5	67.9	48.6
24	05.00 AM - 06.00 AM	66.0	74.2	68.0	48.6

End of Report

Verified By

• Result relate to the sample tested.

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Authorised Signatory
COCHIN TEST HOUSE

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SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/15/12/1148

Issue Date : January 08, 2016

Name and Address of customer : M/S.KITCO LTD, FUTHIYA 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/1148

Date of Monitoring : December 30 & 31, 2015


Customer ref : Noise Level monitoring report of Gold Tower at Vazhakkala.

SL.NO	Leq Day Time	Leq Night Time	Leq(DN) Day and Night
1	68.8	65.9	72.9

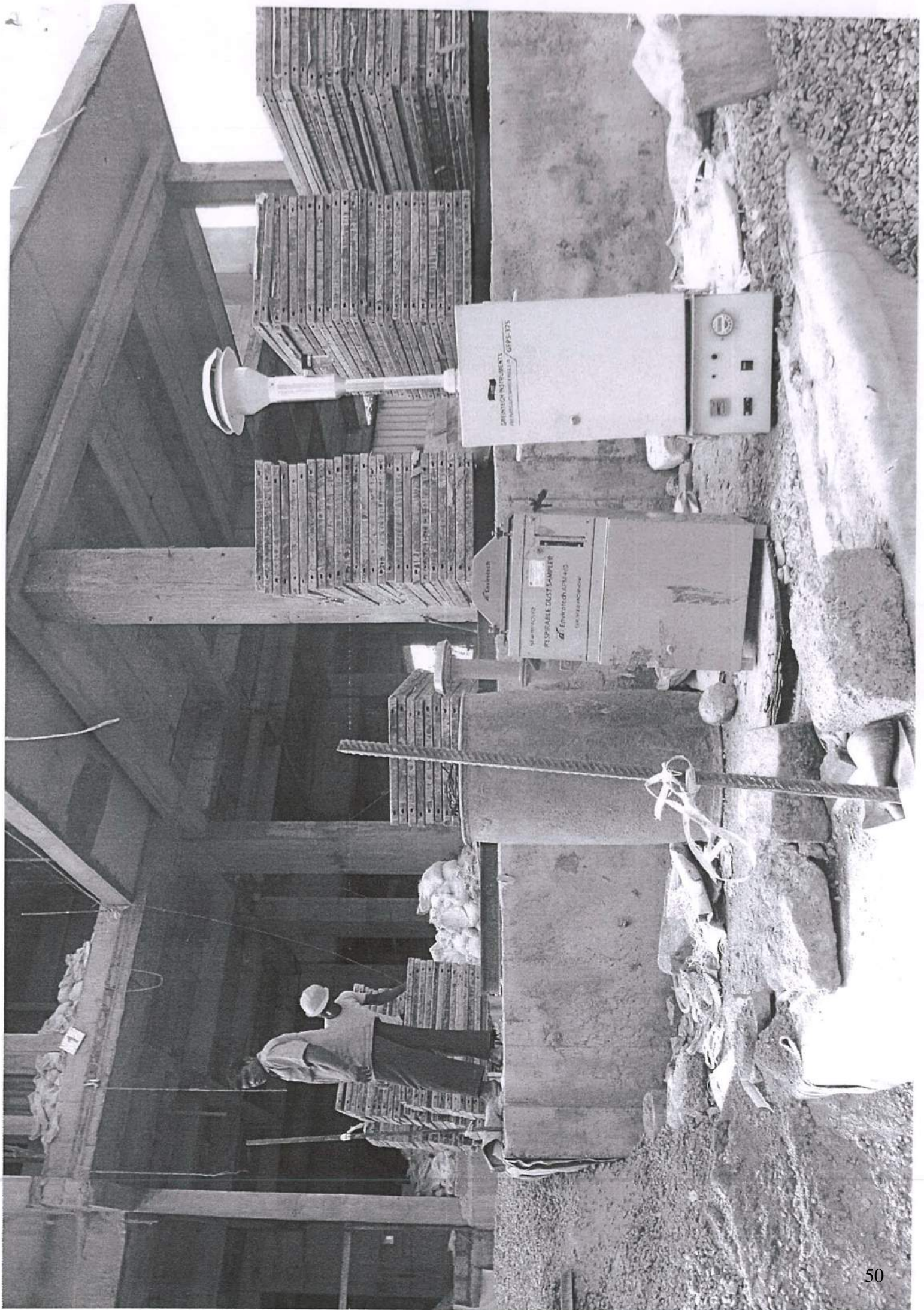
End of report



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TEST REPORT

Report No : CTH/LR/16/01/057

Issue Date : January 29, 2016

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 : 16/01/057

Date of receipt of sample : January 25, 2016

Dates of Analysis : 25.01.2016 – 29.01.2016

Description of the sample by the customer : Ground Water

Sl.No.	Parameters	Unit	Method	Result
1	Colour	Colour units	IS :3025 (Pt.4)	1.0
2	Odour	-	IS:3025 (Pt. 5)	Unobjectionable
3	Turbidity	NTU	IS 3025 (Pt.10)	1.1
4	pH@25°C	-	IS: 3025 (Pt.11)	6.97
5	Total Hardness as CaCO ₃	mg/l	IS 3025 (Pt. 21)	51.48
6	Iron as Fe	mg/l	IS :3025 (Pt.53)	BDL(MDL - 0.08)
7	Chloride as Cl	mg/l	IS: 3025 (Pt.32)	24.46
8	Total Dissolved Solids.	mg/l	IS :3025 (Pt.16)	118.0
9	Sulphate as SO ₄	mg/l	APHA:22 nd Ed. 2012 4500 SO ₄ ²⁻ E	14.55
10	Alkalinity as CaCO ₃	mg/l	IS :3025(Pt.23)	53.1
11	Electrical Conductivity @ 25°C	Micromhos/cm	IS :3025(Pt.14)	224.0
12	Calcium as Ca	mg/l	IS :3025(Pt.40)	15.07
13	Magnesium as Mg	mg/l	IS :3025(Pt.46)	3.37
14	Residual Free Chlorine	mg/l	IS :3025(Pt.26)	BDL(MDL – 1.0)
15	Reactive Silica as SiO ₂	mg/l	IS :3025(Pt.35)	17.56
16	Total Phosphate as P	mg/l	APHA:22 nd Ed. 2012 4500-P(C)	0.26

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

End of report

Verified By



K.P. Jacob
Authorised Signatory
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NOTE : This test results relate only to the sample submitted for analysis.

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SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/16/01/104

Issue Date : January 30, 2016

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 :

16/NN/104

Date of Monitoring :

January 25 & 26, 2016

Customer ref : Noise Level monitoring report of Gold Tower at Vazhakkala.

SL.NO	TIME	Leq	L10	L50	L90
1	06.00 AM - 07.00 AM	71.4	79.4	70.1	67.1
2	07.00 AM - 08.00 AM	72.4	80.4	71.1	68.1
3	08.00 AM - 09.00 AM	73.4	81.4	72.1	69.1
4	09.00 AM - 10.00 AM	74.4	82.4	73.1	70.1
5	10.00 AM - 11.00 AM	65.5	73.7	62.6	59.8
6	11.00 AM - 12.00 AM	64.6	75.2	62.1	56.3
7	12.00 AM - 01.00 PM	60.8	70.8	59.4	54.4
8	01.00 PM - 02.00 PM	63.1	79.4	57.2	52.0
9	02.00 PM - 03.00 PM	61.9	79.4	60.5	45.5
10	03.00 PM - 04.00 PM	61.9	79.4	61.5	45.2
11	04.00 PM - 05.00 PM	63.6	79.6	57.2	49.8
12	05.00 PM - 06.00 PM	65.8	80.3	62.6	54.6
13	06.00 PM - 07.00 PM	63.7	69.3	62.6	59.5
14	07.00 PM - 08.00 PM	66.4	70.1	66.0	63.2
15	08.00 PM - 09.00 PM	68.9	71.4	68.9	66.4
16	09.00 PM - 10.00 PM	66.6	70.3	68.1	54.2
17	10.00 PM - 11.00 PM	70.1	77.7	75.2	48.6
18	11.00 PM - 12.00 PM	65.5	71.1	67.1	48.6
19	12.00 PM - 01.00 AM	63.2	68.5	65.4	48.6
20	01.00 AM - 02.00 AM	63.4	69.2	65.8	48.6
21	02.00 AM - 03.00 AM	63.4	70.2	65.2	48.6
22	03.00 AM - 04.00 AM	64.4	71.2	67.3	48.6
23	04.00 AM - 05.00 AM	65.3	72.5	67.9	48.6
24	05.00 AM - 06.00 AM	66.0	74.2	68.0	48.6

End of Report

Verified By

K.P. Yacob
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SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/16/01/104

Issue Date : January 30, 2016

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 : 16/NN/104

Date of Monitoring : January 25 & 26, 2016

Customer ref : Noise Level monitoring report of Gold Tower at Vazhakkala.

SL.NO	Leq Day Time	Leq Night Time	Leq(DN) Day and Night
1	68.8	65.9	72.9

End of report

Verified by

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TEST REPORT

Report No : CTH/LR/16/02/125

Issue Date : February 24, 2016

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 : 16/02/125

Date of receipt of sample : February 18, 2016

Dates of Analysis : 18.02.2016 - 24.02.2016

Description of the sample by the customer : Ground Water

Customer Ref : Water Sample Analysis report of Gold Tower at Vazhakkala.

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)	15.9
4	pH@25°C	-	IS: 3025 (Pt.11)	6.90
5	Total Hardness as CaCO ₃	mg/l	IS 3025 (Pt. 21)	405.0
6	Iron as Fe	mg/l	IS :3025 (Pt.53)	2.19
7	Chloride as Cl	mg/l	IS: 3025 (Pt.32)	435.39
8	Total Dissolved Solids.	mg/l	IS :3025 (Pt.16)	919.0
9	Sulphate as SO ₄	mg/l	APHA:22 nd Ed. 2012 4500 SO ₄ ²⁻ E	57.7
10	Alkalinity as CaCO ₃	mg/l	IS :3025(Pt.23)	147.5
11	Electrical Conductivity @ 25°C	Micromhos/cm	IS :3025(Pt.14)	2100.0
12	Calcium as Ca	mg/l	IS :3025(Pt.40)	86.0
13	Magnesium as Mg	mg/l	IS :3025(Pt.46)	46.26
14	Residual Free Chlorine	mg/l	IS :3025(Pt.26)	BDL(MDL - 1.0)
15	Reactive Silica as SiO ₂	mg/l	IS :3025(Pt.35)	56.19
16	Total Phosphate as P	mg/l	APHA:22 nd Ed. 2012 4500-P(C)	1.36

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

End of report

Verified By



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SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/16/02/199

Issue Date : February 25, 2016

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 :

16/NN/199

Date of Monitoring :

February 18 & 19, 2016

Customer ref : Noise Level monitoring report of Gold Tower at Vazhakkala.

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	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	72.3	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

End of Report

Verified By



K.P. Yacob
K.P. Yacob
Authorised Signatory
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SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/16/02/199

Issue Date : February 25, 2016

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 : 16/NN/199

Date of Monitoring : February 18 & 19, 2016

Customer ref : Noise Level monitoring report of Gold Tower at Vazhakkala.

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

End of report


Verified by




K.P. Yacob
Authorised Signatory
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AMBIENT AIR QUALITY MONITORING REPORT

Report No : CTH/LR/16/03/257

Issue Date : March 17, 2016

Issued To:

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

Customer ref : Ambient air monitoring report of Gold Tower at Vazhakkala.

Lab Identification No.	16/NN/257
Monitoring Station	N 09° 59.609" E 76° 19.494"
Monitoring Date	March 08 - 09, 2016
Monitored By	Cochin Test House

Sl.No	Parameters	Unit	Method	Result		
				10AM - 6PM	6PM - 2AM	2AM - 10AM
1	SO ₂	µg/m ³	IS:5182(Pt.2):2009	16.32	13.59	10.87
2	NO _x	µg/m ³	IS:5182(Pt.6):2006	22.17	21.09	24.67
3	CO	mg/m ³	IS:5182(Pt.10):2009	BDL(MD-2.29)	BDL(MDL-2.29)	BDL(MDL-2.29)
4	PM ₁₀	µg/m ³	IS:5182(Pt.23):2006	54.25 (24 hrs Sampling)		
5	PM _{2.5}	µg/m ³	USEPA	20.29 (24 hrs Sampling)		

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

End of Report.

SLD

Verified By



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TEST REPORT

Report No : CTH/LR/16/03/179

Issue Date : March 15, 2016

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 : 16/03/179

Date of receipt of sample : March 08, 2016

Dates of Analysis : 08.03.2016 - 15.03.2016

Description of the sample by the customer : Ground Water

Customer Ref : Water Sample Analysis report of Gold Tower at Vazhakkala.

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)	31.5
4	pH@25°C	-	IS: 3025 (Pt.11)	6.90
5	Total Hardness asCaCO ₃	mg/l	IS 3025 (Pt. 21)	591.6
6	Iron as Fe	mg/l	IS :3025 (Pt.53)	3.25
7	Chloride as Cl	mg/l	IS: 3025 (Pt.32)	640.86
8	Total Dissolved Solids.	mg/l	IS :3025 (Pt.16)	1200.0
9	Sulphate as SO ₄	mg/l	APHA:22 nd Ed. 2012 4500 SO ₄ ²⁻ E	84.58
10	Alkalinity as CaCO ₃	mg/l	IS :3025(Pt.23)	143.5
11	Electrical Conductivity @ 25°C	Micromhos/cm	IS :3025(Pt.14)	2400.0
12	Calcium as Ca	mg/l	IS :3025(Pt.40)	97.78
13	Magnesium as Mg	mg/l	IS :3025(Pt.46)	84.45
14	Residual Free Chlorine	mg/l	IS :3025(Pt.26)	BDL(MDL - 1.0)
15	Reactive Silica as SiO ₂	mg/l	IS :3025(Pt.35)	44.42
16	Total Phosphate as P	mg/l	APHA:22 nd Ed. 2012 4500-P(C)	2.17

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

End of report



Verified By

K.P. Yacob
Authorised Signatory
COCHIN TEST HOUSE

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

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

SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/16/03/258

Issue Date : March 19, 2016

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 :

16/NN/258

Date of Monitoring :

March 08 & 09, 2016

Customer ref : Noise Level monitoring report of Gold Tower at Vazhakkala.

SL.NO	TIME	Leq	L10	L50	L90
1	06.00 AM - 07.00 AM	67.9	69.4	68.0	65.2
2	07.00 AM - 08.00 AM	68.2	69.3	68.3	66.8
3	08.00 AM - 09.00 AM	72.0	75.0	72.3	69.0
4	09.00 AM - 10.00 AM	71.9	75.2	72.7	68.0
5	10.00 AM - 11.00 AM	68.4	71.8	68.2	65.0
6	11.00 AM - 12.00 AM	67.5	69.0	68.0	65.0
7	12.00 AM - 01.00 PM	64.7	68.0	64.0	62.0
8	01.00 PM - 02.00 PM	68.8	71.6	69.0	66.3
9	02.00 PM - 03.00 PM	68.1	69.3	68.0	66.2
10	03.00 PM - 04.00 PM	68.9	69.5	69.0	67.9
11	04.00 PM - 05.00 PM	70.7	73.2	71.0	68.0
12	05.00 PM - 06.00 PM	67.9	69.0	68.0	66.4
13	06.00 PM - 07.00 PM	64.9	68.0	65.0	62.3
14	07.00 PM - 08.00 PM	57.4	59.0	58.0	54.0
15	08.00 PM - 09.00 PM	57.1	60.0	57.5	54.0
16	09.00 PM - 10.00 PM	57.4	60.0	58.0	54.3
17	10.00 PM - 11.00 PM	52.6	54.0	52.8	51.0
18	11.00 PM - 12.00 PM	48.1	49.2	48.0	47.0
19	12.00 PM - 01.00 AM	51.0	53.2	51.0	48.3
20	01.00 AM - 02.00 AM	50.2	53.0	49.6	47.2
21	02.00 AM - 03.00 AM	58.0	59.6	58.1	56.9
22	03.00 AM - 04.00 AM	58.4	62.0	58.0	56.0
23	04.00 AM - 05.00 AM	62.9	65.0	62.4	61.0
24	05.00 AM - 06.00 AM	64.6	65.6	64.5	63.2

End of Report

Verified By

K.P. Yacob
Authorised Signatory
COCHIN TEST HOUSE

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SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/16/03/258

Issue Date : March 19, 2016

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 : 16/NN/258

Date of Monitoring : March 08 & 09, 2016

Customer ref : Noise Level monitoring report of Gold Tower at Vazhakkala.

SL.NO	Leq Day Time	Leq Night Time	Leq(DN) Day and Night
1	68.4	59.0	68.6

End of report

Verified by



K.P. Yacob
Authorised Signatory
COCHIN TEST HOUSE

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COCHIN TEST HOUSE

ANALYTICAL SERVICES & TESTING LABORATORY

V / 78, Kollanpady, Murungaliparambu Road, Irumpanam P.O., Kochi - 682 309

Mob.: 9446332556, 9387381780, Tel.: 0484 - 2782672

E-mail: cochintesthouse1@gmail.com, Web : www.cochintesthouse.com



Certificate No.: T-2340, T-3111

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

W01
756

TEST REPORT

Report No : CTH/LR/16/04/357

Issue Date : May 02, 2016

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 : 16/04/357

Date of receipt of sample : April 25, 2016

Dates of Analysis : 25.04.2016 - 02.05.2016

Description of the sample by the customer : Ground Water

Customer Ref : Water Sample Analysis report of Gold Tower at Vazhakkala.

Sl.No.	Parameters	Unit	Method	Result
1	Colour	Colour units	IS :3025 (Pt.4)	2.0
2	Odour	-	IS:3025 (Pt. 5)	Unobjectionable
3	Turbidity	NTU	IS 3025 (Pt.10)	BDL(MDL - 1.0)
4	pH@25°C	-	IS: 3025 (Pt.11)	6.90
5	Total Hardness asCaCO ₃	mg/l	IS 3025 (Pt. 21)	52.5
6	Iron as Fe	mg/l	IS :3025 (Pt.53)	0.12
7	Chloride as Cl	mg/l	IS: 3025 (Pt.32)	31.57
8	Total Dissolved Solids.	mg/l	IS :3025 (Pt.16)	153.0
9	Sulphate as SO ₄	mg/l	APHA:22 nd Ed. 2012 4500 SO ₄ ²⁻ E	20.94
10	Alkalinity as CaCO ₃	mg/l	IS :3025(Pt.23)	61.25
11	Electrical Conductivity @ 25°C	Micromhos/cm	IS :3025(Pt.14)	286.0
12	Calcium as Ca	mg/l	IS :3025(Pt.40)	12.69
13	Magnesium as Mg	mg/l	IS :3025(Pt.46)	5.11
14	Residual Free Chlorine	mg/l	IS :3025(Pt.26)	BDL(MDL - 1.0)
15	Reactive Silica as SiO ₂	mg/l	IS :3025(Pt.35)	21.94
16	Total Phosphate as P	mg/l	APHA:22 nd Ed. 2012 4500-P(C)	0.81

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

End of report

Verified By



K.P. Yacob
Authorised Signatory
COCHIN TEST HOUSE

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SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/16/04/440

Name and Address of customer :

Issue Date : April 28, 2016

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

Sample Drawn By :

Monitoring station :

Sample code :

Date of Monitoring :

Cochin Test House

N 10°00.75' E 076°19.461"

16/NN/440

April 25 & 26, 2016

Customer ref : Noise Level monitoring report of Gold Tower at Vazhakkala.

SL.NO	TIME	Leq	L10	L50	L90
1	06.00 AM - 07.00 AM	63.1	65.8	63.0	60.8
2	07.00 AM - 08.00 AM	62.6	64.8	62.0	60.8
3	08.00 AM - 09.00 AM	60.7	63.2	60.6	58.6
4	09.00 AM - 10.00 AM	62.3	65.2	61.8	59.9
5	10.00 AM - 11.00 AM	61.5	65.0	60.7	58.9
6	11.00 AM - 12.00 AM	59.6	63.6	58.9	56.9
7	12.00 AM - 01.00 PM	61.7	65.3	61.8	58.3
8	01.00 PM - 02.00 PM	63.1	70.0	62.2	58.5
9	02.00 PM - 03.00 PM	61.2	63.6	61.1	58.7
10	03.00 PM - 04.00 PM	60.3	61.8	60.2	58.5
11	04.00 PM - 05.00 PM	60.3	63.4	59.9	57.9
12	05.00 PM - 06.00 PM	60.3	62.7	61.4	55.8
13	06.00 PM - 07.00 PM	61.7	62.3	61.6	61.1
14	07.00 PM - 08.00 PM	61.3	62.6	61.1	60.5
15	08.00 PM - 09.00 PM	60.6	61.4	60.5	59.8
16	09.00 PM - 10.00 PM	60.1	60.8	59.9	59.2
17	10.00 PM - 11.00 PM	60.1	60.8	60.0	59.6
18	11.00 PM - 12.00 PM	60.3	61.1	60.2	59.6
19	12.00 PM - 01.00 AM	60.9	61.1	60.7	60.4
20	01.00 AM - 02.00 AM	60.6	61.0	60.6	60.3
21	02.00 AM - 03.00 AM	60.9	61.2	60.9	60.5
22	03.00 AM - 04.00 AM	61.0	61.7	61.0	60.4
23	04.00 AM - 05.00 AM	61.5	62.2	61.2	60.6
24	05.00 AM - 06.00 AM	63.2	65.4	62.7	61.7

End of Report

Verified By

K.P. Yacob
Authorised Signatory
COCHIN TEST HOUSE

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SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/16/04/440

Issue Date : April 28, 2016

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

16/NN/440

Date of Monitoring

April 25 & 26, 2016

Customer ref : Noise Level monitoring report of Gold Tower at Vazhakkala.

SLNO	Leq Day Time	Leq Night Time	Leq(DN) Day and Night
1	61.5	61.1	67.5
			End of report



Verified by

K.P. Yacob
Authorised Signatory
COCHIN TEST HOUSE

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E-mail: cochintesthouse1@gmail.com, Web : www.cochintesthouse.com



Certificate No.: T-2340, T-3111

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TEST REPORT

Report No : CTH/LR/16/05/431

Issue Date : May 20, 2016

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 : 16/05/431

Date of receipt of sample : May 18, 2016

Dates of Analysis : 18.05.2016 - 20.05.2016

Description of the sample by the customer : Ground Water

Customer Ref : Water Sample Analysis report of Gold Tower at Vazhakkala.

Sl.No.	Parameters	Unit	Method	Result
1	Colour	Colour units	IS :3025 (Pt.4)	2.0
2	Odour	-	IS:3025 (Pt. 5)	Unobjectionable
3	Turbidity	NTU	IS 3025 (Pt.10)	BDL(MDL - 1.0)
4	pH@25°C	-	IS: 3025 (Pt.11)	7.14
5	Total Hardness asCaCO ₃	mg/l	IS 3025 (Pt. 21)	58.8
6	Iron as Fe	mg/l	IS :3025 (Pt.53)	BDL(MDL - 0.08)
7	Chloride as Cl	mg/l	IS: 3025 (Pt.32)	29.26
8	Total Dissolved Solids.	mg/l	IS :3025 (Pt.16)	176.0
9	Sulphate as SO ₄	mg/l	APHA:22 nd Ed. 2012 4500 SO ₄ ²⁻ E	15.31
10	Alkalinity as CaCO ₃	mg/l	IS :3025(Pt.23)	61.25
11	Electrical Conductivity @ 25°C	Micromhos/cm	IS :3025(Pt.14)	336.0
12	Calcium as Ca	mg/l	IS :3025(Pt.40)	15.22
13	Magnesium as Mg	mg/l	IS :3025(Pt.46)	5.11
14	Residual Free Chlorine	mg/l	IS :3025(Pt.26)	BDL(MDL - 1.0)
15	Reactive Silica as SiO ₂	mg/l	IS :3025(Pt.35)	29.44
16	Total Phosphate as P	mg/l	APHA:22 nd Ed. 2012 4500-P(C)	BDL(MDL - 0.2)

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

End of report



Dr. S. Narayanan
Authorized Signatory
COCHIN TEST HOUSE

Verified By

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SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/16/05/495
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 : 16/NN/495
Date of Monitoring : May 18 & 19, 2016
Customer ref : Noise Level monitoring report of Gold Tower at Vazhakkala.

SL.NO	TIME	Leq	L10	L50	L90
1	06.00 AM - 07.00 AM	63.1	65.8	63.0	60.8
2	07.00 AM - 08.00 AM	62.6	64.8	62.0	60.8
3	08.00 AM - 09.00 AM	60.7	63.2	60.6	58.6
4	09.00 AM - 10.00 AM	62.3	65.2	61.8	59.9
5	10.00 AM - 11.00 AM	61.5	65.0	60.7	58.9
6	11.00 AM - 12.00 AM	59.6	63.6	58.9	56.9
7	12.00 AM - 01.00 PM	61.7	65.3	61.8	58.3
8	01.00 PM - 02.00 PM	63.1	70.0	62.2	58.5
9	02.00 PM - 03.00 PM	61.2	63.6	61.1	58.7
10	03.00 PM - 04.00 PM	60.3	61.8	60.2	58.5
11	04.00 PM - 05.00 PM	62.7	65.4	62.3	59.8
12	05.00 PM - 06.00 PM	62.0	63.9	61.9	59.8
13	06.00 PM - 07.00 PM	61.4	64.9	61.1	57.6
14	07.00 PM - 08.00 PM	63.0	65.1	63.2	60.8
15	08.00 PM - 09.00 PM	60.3	63.4	60.7	56.0
16	09.00 PM - 10.00 PM	51.6	54.6	51.5	49.0
17	10.00 PM - 11.00 PM	49.7	52.9	49.5	47.9
18	11.00 PM - 12.00 PM	55.2	60.8	60.0	45.5
19	12.00 PM - 01.00 AM	60.9	61.1	60.7	60.4
20	01.00 AM - 02.00 AM	60.6	61.0	60.6	60.3
21	02.00 AM - 03.00 AM	60.9	61.2	60.9	60.5
22	03.00 AM - 04.00 AM	61.0	61.7	61.0	60.4
23	04.00 AM - 05.00 AM	61.5	62.2	61.2	60.6
24	05.00 AM - 06.00 AM	63.2	65.4	62.7	61.7

End of Report

Verified By

- Result relate to the sample tested.
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K.P. Yacob
Authorised Signatory
COCHIN TEST HOUSE



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SOUND LEVEL MONITORING REPORT

Report No : CTH/LR/16/05/495

Issue Date : May 23, 2016

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 : 16/NN/495

Date of Monitoring : May 18 & 19, 2016

Customer ref : Noise Level monitoring report of Gold Tower at Vazhakkala.

SL.NO	Leq Day Time	Leq Night Time	Leq(DN) Day and Night
1	61.8	60.0	66.7

End of report

Verified by




K.P. Yacob
Authorised Signatory
COCHIN TEST HOUSE

- Result relate to the sample tested.
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ANNEXURE XIV
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, Ernakulam 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. Firefighting 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: Ernakulam.

Solemnly affirmed and signed before me by the deponent, at my office at Ernakulam on this the 3rd day of December 2014.

JATSON JOSEPH
Notary Public
Ernakulam
REGD. No. 10000




Alukkas Varghese Joy

34646
NO. 34646 Date 25-11-2014

LISSY SEBASTIAN
CJM Court Vendor EKM

*Joy Alukkas Lifestyle Developers
Pvt Ltd, Ernakulam*

