Palathra constructions Private Limited
PALATHRA BUILDINGS,THURUTHY PO
CHANGANACHERRY,KOTTAYAM
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The Director- IA. II (M),
Ministry of Environment, Forests & Climate Change,
Indira Paryavaran Bhawan, Jor Bagh Road,
New Delhi-110 003.

Dt. 30-05-2018

Ref. :- 1. File No. IA-J-11015/44/2018-IA-II(M
2. 31st EAC Meeting held on 14th - 15th May, 2018

Sub.:- Environmental Clearance - Expansion of Existing "Building Stone Mine" situated at Sy. No. 401/5-2, 403/1, 403/1-1, 403/2, 403/2-2-1, 403/2-3, 403/2-2, 404/1, 404/2, 404/2-6, 405/1, 406/5, Village Chengalam East, Taluk Kottayam, District Kottayam, Kerala for an area of 5.3810 ha. - B2 Category – Clarifications - Reg.

Respected Sir,

With reference to the above mentioned subject, mentioned below is the point wise reply to the queries raised in the minutes of the 31st meeting of Expert Appraisal Committee (EAC) held on 14th – 15th May, 2018.

Q. i. The Member Secretary informed the Committee that the Ministry has issued the directions under Section 5 of the Environment (Protection) Act, 1986, vide letter No. 1-4/2012 - RE (Pt), dated 13.11.2013 regarding prohibition of mining activity in the ESA identified by the HLWG and provided a list (State-wise, District-wise and Taluk-wise village). The Committee noted that the instant LOI/MLA is not a part of the list. However, the Ministry may seek the comments from concerned Division of the Ministry w.r.t. ESA identified by the HLWG and its further development, if any;

Ans. The proposed quarry is located in Chengalam East village, Kottayam Taluk & District, which is not in the ESA village identified by HLWG on Western Ghats.

Q.ii. Details of type of rock and geology, method of mining, machinery details, blasting details etc. needs to be provided.

Ans. The details of type of rock and geology, method of mining, machinery details, blasting details are provided at **Annexure No. 1.**

Q.iii. Details of haulage roads, slope at different sections needs to be provided.

Ans. The details of haulage roads within the mining lease area, slope at different sections are provided at **Annexure No. 2.**

Q.iv. Details of Occupational health along with budgetary provisions needs to be elaborated.

Ans. The details of occupational health along with budgetary provisions proposed are attached at **Annexure No. 3.**

Q. v. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery / toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).

Ans. All corner coordinates of the mine lease area superimposed on a High Resolution Imagery of the satellite image of the area is provided at **Annexure No. 4.**

Q.vi. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by State Government. A Certificate from the Competent Authority in the State Forest Department should also be provided, confirming the involvement of forest land, if any, in the project area.

Ans. There is no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger / Elephant Reserves (existing as well as proposed), within 10 km. of the mine lease.
There is no forest land involved in the mine lease area. A Certificate in this regard vide letter dt. 30-05-2018 issued by the Divisional Forest Officer (DFO), Kottayam District, Kerala is attached at **Annexure No. 5**.

Q.vii. PP needs to submit the detailed Green Belt Development plan on periphery of the lease along with type of plantation etc. Plant species needs to be revised.

Ans. The details regarding the green belt development plan proposed in the periphery of the mine lease area along with type of plantation are provided at **Annexure No. 6.**

Q.viii. Test Reports of Free Silica Concentration need to be submitted.

Ans. The test Report of Free Silica Concentration is attached at **Annexure No. 7.**

Q.ix. Details of connectivity from mine to crusher and its transportation plan needs to be elaborated.

Ans. The rubble from the project will be sold to the open market. There is no crusher unit within the complex. There is a crusher unit located about 8 Km. from the mine lease area and the transportation requirement is estimated accordingly and the route map to the crusher is attached.

Q.x. The Committee noted that the Ministry has recently issued a circular vide no. 22-65/2017-IA.III, dated 1st May 2018 on Corporate Environment Responsibility (CER). Accordingly, PP needs to submit the details of budget and its activities as per the said Circular.

Ans. The project cost of the proposed quarry is about Rs. 4.5 Crores. Accordingly, the details of Corporate Environment Responsibility (CER) is provided at **Annexure No. 8.**

Q.xi. The existing project was accorded with Environment Clearance vide Order No. 835/EC4/2713/2015 dated 07-05-2016 by SEIAA, Kerala with mine lease area of 2.0766 ha with a production capacity of 50,000 TPA. Accordingly, PP needs to submit the (a) certified copy compliance of earlier EC conditions from the RO of the MoEF&CC/SPCB as per provision of the EIA Notification, 2006 as amended on 15.01.2016, (b) Copy of CTE/CTO; and (iii) Production details since inception of mine which is duly authenticated by the State Mines and Geology Department

Ans. a) The certified copy of the compliance report of earlier EC conditions from the RO of MoEF & CC is attached at **Annexure No.9.**

b) The copy of "*Consent to Establish*" from Kerala State Pollution Control Board under Air Pollution (Prevention & Control) Act, 1981 & Water Pollution (Prevention & Control) Act, 1974 for the proposed mine lease area of 5.3810 ha. is attached as **Annexure No. 10.** The copy of the integrated "*Consent to Operate*" from Kerala State Pollution Control Board under Air Pollution (Prevention & Control) Act, 1981 and Water Pollution (Prevention & Control) Act, 1974 and Hazardous Waste Management and Handling Rules for the existing unit is attached at **Annexure No. 11**.

c) The copy of the production details duly authenticated by Department of Mining and Geology, Govt. of Kerala is attached at **Annexure No. 12.**

In view of the above submission of document, we humbly request you to accord Environmental Clearance to our project at the earliest.

Thanking you,

Yours respectfully,

For PALATHRA CONSTRUCTIONS PVT. LTD.

CHARLES MATHEW

CHARLES MATHEW
(Director)

Encl. :- As above

DETAILS OF TYPE OF ROCK AND GEOLOGY, METHOD OF MINING MACHINERY DETAILS, BLASTING DETAILS

GEOLOGY AND EXPLORATION

TOPOGRAPHY

Part of the proposed land is an existing mine and remaining land covered with native trees, shrubs, herbs, grass, climbers, bushes etc. The highest elevation of the mine area is 135 m. MSL and lowest is 85 m. MSL. As the proposed area is hilly, the drainage of the mine area is towards West to East. No habitations is located in the mine area. The contour map showing the topography of the mine lease area is provided at **Plate No. 2.**

REGIONAL GEOLOGY

In the north eastern part of the area covered by mapping the Archaean metamorphic rocks are traced. The rocks are predominantly charnockite and charnockite gneiss. The crystalline are overlain by Tertiary sediments and both are lateritised. Beach sand and alluvium of Quaternary period overlie the above rocks.

Since the north eastern part of the area has a thick cover of laterite and soil,the contact relationship between different rock units is not clear and their lithological boundaries are mostly inferred. The rock types met in the area are given below in a tentative geological succession.

Quaternary period	Alluvium and soil Brown sand White sand, black clay and peat
Tertiary period	Laterite Grit with some pebbles
----------unconformity----------	
Archaean	Dolerite Charnockite gneiss Charnockite
	Pyroxene granulite and garnetiferous ferruginous quartzite

(*Secondary Source :- 1. Geological Survey of India-www.gsi.gov.in

2. District Survey Report of Kottayam District, published by Mining & Geology Department, Govt. of Kerala.

LOCAL GEOLOGY

The local geology belongs to the regional geology. Main rock type in the study area is granite building stone. At places where they are exposed, the granite building stone is

medium to coarse grained with dark grey quartz. The soil & over burden thickness is varies from avg. 0.40 m. to 0.20 m. Topographically, the area is undulating.

GEOLOGICAL RESERVES:-

Summarized Reserves (in MT)	
Geological reserve (A)	**2335908**
Mineral reserve blocked in 7.5 m Buffer zone (B)	217573
Mineral reserve blocked in Benches (C)	725175
Mined out quantity (between April 2014 to August 2017) (D)	60737
Extra mineral blocked (E)	145020
Mineral reserve = A- B + C+ D+E	**1187403**

The details are provided at the Surface cum Geological plan and sections at **Plate No. 3**

Mining:

a. Whether manual or semi-mechanized or mechanized

semi-mechanized

b. If semi-mechanized or mechanized, number, type and capacity of machines to be used.

Machinery will be deployed as per requirement to meet production target. Brief details of machinery are as follows :-

SINGLE SHIFT WORKING- 8 hrs.

REQUIREMENT OF MACHINERIES :-

The calculation for requirement of different machineries to handle required production of 2,40,000 TPA of granitic building stone or 800 TPD is given below:-

DRILLING

The drilling of holes is proposed in one shift.

Drilling rate = 5 m/ hr
Utilization of time = 7 hrs/day in single shift
Depth of holes = 1.50 m
Burden = 1.50 m
Spacing = 2.50 m
Specific gravity = 2.50
Rocks broken/hole = Specific Gravity x spacing x burden x depth

= 2.50 x 2.50 x 1.50 x 1.50

= 14.0625 MT

Therefore, for 800 MT/Day

So, 800/14 = 57.14 holes required /day

Total meterage of drilling required / day = depth of hole x no. of holes
= 1.50 x 57.14 = 85.71 m/day say 86 m per day

Capacity of One drill machine = 5 x 7
= 35 m per day,

For 86 m drilling, no of machines required = 86m / 35m
= 2.45 say **3 jack hammers**.

EXCAVATORS

The loading capacity of an excavator can be calculated with the following equation

(L) = B x R x N x T x E/K

Here

L = Loading capacity/shift

B= Bucket capacity =0.9 cu.m i.e. 0.72 cu.m. @ 80%

R= Co-efficient of filling (assumed 0.80)

N= Average no. of loading cycle/hrs
(assumed 120 cycle/ hr of 30 second each)

T= No. of effective wording hrs/shift= 7 hr

E= Efficiency of utilization (assumed 0.80)

K= Swelling factor (taken 1.6)

L = 0.72 cu.m. x 0.80 x 120 cycle/hr x 7hr x 0.80/1.6

= 241.92 cu.m. / shift / excavator

Daily ROM granitic building stone =800 TPD / 2.50 x 1.60 =512 cu.m

Requirement of No. of excavators = 512 cu.m. / 241.92 cu.m.

= 2.12 or say to 3 nos and one machine shall be standby, so total machines will be 3+1=**4 Excavators**

Dumpers

Cycle time of dumper:

Spotting time = 1 min.

Loading time = 3.5 min

Travel time (loading to unloading) = 24.5 min

Unloading time = 1 min

Total time = 30 min

Utilization time = 7 hrs

No of trips/day/dumpers = 7x60/30 = 14 trips

Tonnage per day / dumper = 14 x 15 MT = 210 MT

ROM handling /day = 800 MT

No. of dumpers = 800/210 = 3.81 or say 4 dumpers

Note- 1 dumper of 10 MT capacity will be used for transportation of soil as well as for miscellaneous operations.

Total No. of dumpers = 4 + 1 = **5 dumpers**

(i) Drilling & Machines

Sr. No.	Machine Type	Required No. of Machines	Size / Capacity	Make	Source of Power
1.	Jack hammer	3	32 mm (drill hole size)	Atlas Copco	Operated through Compressor
2.	Excavator (Back Hoe)	4	0.9 m^3	Tata - Hitachi	Diesel Engine
3.	Dumper / Tipper	5	15 T	Man / Tata	Diesel Engine
4.	Rock Breaker	2	--	Furukawa	Diesel Engine
5.	Compressor	2 (1 standby)	100 CFM	LG / Atlas	Diesel Engine / Electrical Operated
6.	DG Set	1	180 kVA	Kirloskar	Diesel Engine

Miscellaneous Machinery:

S. No.	Particulars	Make/ Capacity	Number
1	Water Sprinkler	5 KL	1
2	Diesel Tanker	500 L	1
3	Ambulance	-	1
4	Jeep/ Van	Mahindra	2
5	Bull Dozer	Komatsu – 165 HP	1
6	Light Truck	Tata- 407 – 5 Tones	1
7	Mobile workshop van	Assembled	1
8	Water tanker for plantation	5 KL	1

(ii) Loading Equipment

Mechanical loading equipment such as shovel and excavators will be used for removal and loading of the mineral at face and stock yard.

(iii) Haulage and Transport Equipment

a) Haulage within mining mine hold: Loading of Stone will be done with the help of Shovel and Excavators at face and stock yard. Stone rubbles are loaded in truck by manually.

b) Transport from Mine head to destination: The truck will be used for transportation of Stone and Stone Ballast from mine site to destination.

c. Whether drilling and blasting will be made use of, if yes, state monthly quantity of explosives to be consumed.

Drilling : The excavation of mineral is proposed by excavators. The mineral is fractured and easily exploitable by rock breakers and excavators. The hard strata are proposed to excavate after drilling and blasting. The cross-sectional view of drilling operations is shown below:-

Blasting: Controlled blasting is proposed by adopting all the safety measures as per "MMR 1961" and with the permission of DGMS. In this area for fragmentation of granite, blasting will be conducted. Multiple blast holes of 1.5m depth will be drilled with the help of 32 mm drill rod, Jack Hammer and Air Compressor of 100 CFM capacity.

It is estimated about 250gms of explosives per hole is required. About 57-58 holes per blast are proposed. Therefore, the requirement of explosives will be about 14.5 kg / blast / day.

d. Benching pattern (height & width).

The height of bench will not be kept more than 5.0m at a time and the width of the bench will be always kept safe according to provisions.

e. Face lay out (attached development plan).

Production & Development Plan with Cross Sections is enclosed at **Plate No. 4**.

f. Quarry floor level (RL) at the end of the year or period of the concession

The proposed mining activity for next five year will reached up to 75 m RL and in the conceptual stage will be reached up to 75 m RL. It is expected that mining will not intersect the water table in the area. Therefore, water quality will remain unchanged. No ground water management is required.

g. Quantity of mineral to be won (Annual level of Production)

Excavation :

The proposed method of mining will be Semi mechanized open cast mining. The basic mining techniques adopted will be uses of machines. For the systematic working of open cast mines, the main development work will be the forming of systematic benching. The height of bench will not be kept more than 5m at a time and the width of the bench will be always kept safe according to provisions. The Mining will be done with the help of tools such as drills, jack-hammer, compressors, hand shovel, picks, excavators etc. The targeted annual production of Stone is about 2, 40,000 MTA.

Table : Year wise production of building stone for life of mine

Year	Bench	Production (MT)
I	130-105	2,40,000
II	105-95	2,40,000
III	95-85	2,40,000
IV	85-80	2,40,000
V	80-75	2,27,403
Total		**11,87,403**

The year wise tentative excavation plan is provided at **Plate No. 5**

Loading and Transportation: Loading of mineral will be done by excavator and will be sold outside. Trucks / Tippers of 15T will be used for transportation of mineral from mine site. It is expected that 53-54 trips will be required to transport on daily basis. For this, movement of truck per hour will be 3 - 4 per hour Thus; the impact due to movement of trucks from the mine will be marginal and well within the capacity of the roads.

h. Quantity of overburden to be removed (Show location of such disposal in development plan)

Nature and Quality of Top-Soil and overburden to be generated

Top Soil

A total quantity of 8953 cu.m. of topsoil is proposed to be removed during the mining operations.

Overburden

About 4476 cu. m. of overburden will be generated throughout the mine life.

Year	Top Soil (cu. m.)	Overburden (cu. m.)
I	2625	1409
II	2238	1119
III	2117	1035
IV	1973	913
V	-	-
Total	**8953**	**4476**

i. Whether heavy blasting to be adopted. If yes, location of nearest habitation (to be shown in the surface plan)

No heavy blasting will be adopted and only small scale blasting will be adopted**.**

Following are the parameters which is used

Depth of Hole = 1.5 m

Diameter of hole = 32 mm

Spacing = 2.5 m

Burden = 1.5 m

Sp. Gravity = 2.5

Blasting Pattern:

The blasting pattern entirely depends on the situation of the joints present in the rocks. The drilling is done as per the requirement of the rock fragmentation with desired production of mineral.

Type of Explosive to be used

Only class 2 and class 6 explosive is proposed for use as given below:-

Description	Class & division	Qty.
Nitrate mixture – Slurry and Emulsion Explosives	2, 0	100 kg
Safety fuse	6, 1	2000 mtrs.
Detonators (Ordinary/Electric)	6, 3	4000 nos.

j. Safety precautions to be adopted.

PRECAUTIONS:

- Blasting in the open cast pit will be done only during day time at designated hours.
- Only competent blasters will be appointed to handle explosives.
- Explosives will be stored in approved and licensed magazine as per Explosive Act/ Rules.
- Explosives will be brought from magazine to blasting site in licensed Explosive Van under the care of blaster.
- Sufficient warning signals will be given before blasting the holes.
- Guards will be posted on all roads and paths at least 250 m distance to stop entrance

to the danger zone during blasting hour.

- Controlled blasting will be practiced to control vibrations and flying fragments.
- Optimum charge will be used, while blasting near office complex/ infrastructure site.
- Maximum charge per delay will always be less than 14.5 kg to limit the PPV levels within the DGMS standards of 15 mm/sec.

k. Brief description on method of procurement and storage of explosives.

a. Proper and safe storage of explosives in approved and Licensed Magazine.

b. Proper, safe and careful handling and use of explosives by competent Blasters having Blaster's Certificate of Competency issued by DGMS.

c. Proper security system to prevent theft/pilferage, unauthorized entry into Magazine area and checking authorized persons to prevent carrying of match box, lights, mobile phones, cigarette or Beedi, etc.

d. The explosives of class 2 will be used in their original cartridge packing and such cartridge shall not be cut to remove explosive for making cartridge of different size.

e. Detonators will be conveyed in special containers. These will not be carried with other explosives.

f. The holes which have been charged with explosives will not be left unattended till blasting is completed.

g. Before starting charging, clear audible warning signals by Sirens will be given so that people nearby can take shelter.

h. Blasting operations will be carried out in day times only. However, in this project the mining operations are proposed to be carried out in day times.

Storage of Explosive

Considering low consumption, a 100 kg magazine is for storing the explosive. The magazines are to be constructing within the complex. The controlled blasting is proposed by adopting all the safety measures as per "MMR 1961" and with the permission of DGMS.

Blasting will be performed as per requirement on the face. The explosive by authorized blasting party himself and the blasting will be carried out by registered blasting contractor as per present practices.

Waste Disposal

a. Location (show it in the development plan)

Disposal of waste have been Shown in environment plan & surface runoff plan in **Plate No.-7 & 9.**

b. Area covered

Years	Top soil (cu.m.)	Overburden (cu.m.)	Area (ha.)
I – IV	8953 (concurrently used)	4476 (concurrently used)	0.1497 (outside, own land)

c. Environmental safeguards for such disposal

Top Soil

The topsoil excavated from the quarry will be dumped separately at pre-determined place and subsequently will be utilized in spreading over reclaimed areas for plantation. Precautions will be taken to limit the height of the topsoil dump to 5 to 6 meters in order to preserve its fertility and shelf life. It will be suitably protected from soil erosion and infertility by planting fodder grass and leguminous plants during temporary storage.

Overburden

This waste will be utilized within the pit for lying of haul roads. At the end use, OB can be reutilized as soil base for plantation.

Mine drainage

(Give details of total make of water during dry and rainy season and its method of handling)

Topography:

Sr.no.-9

Rain Fall:

The normal rainfall of the district is 3347 mm. Out of this, major rainfall contribution is from SW monsoon followed by the NE.

Method of handling

Normally, the mine will be closed during rains, in case of necessity accumulated rainy water (free from suspended solid material) from pit bottom may be pumped out & may spilled over adjoining areas, which may be used by native plants (rubber / coconut) and the same will be use for watering saplings/trees in the plantation side.

Storm water management

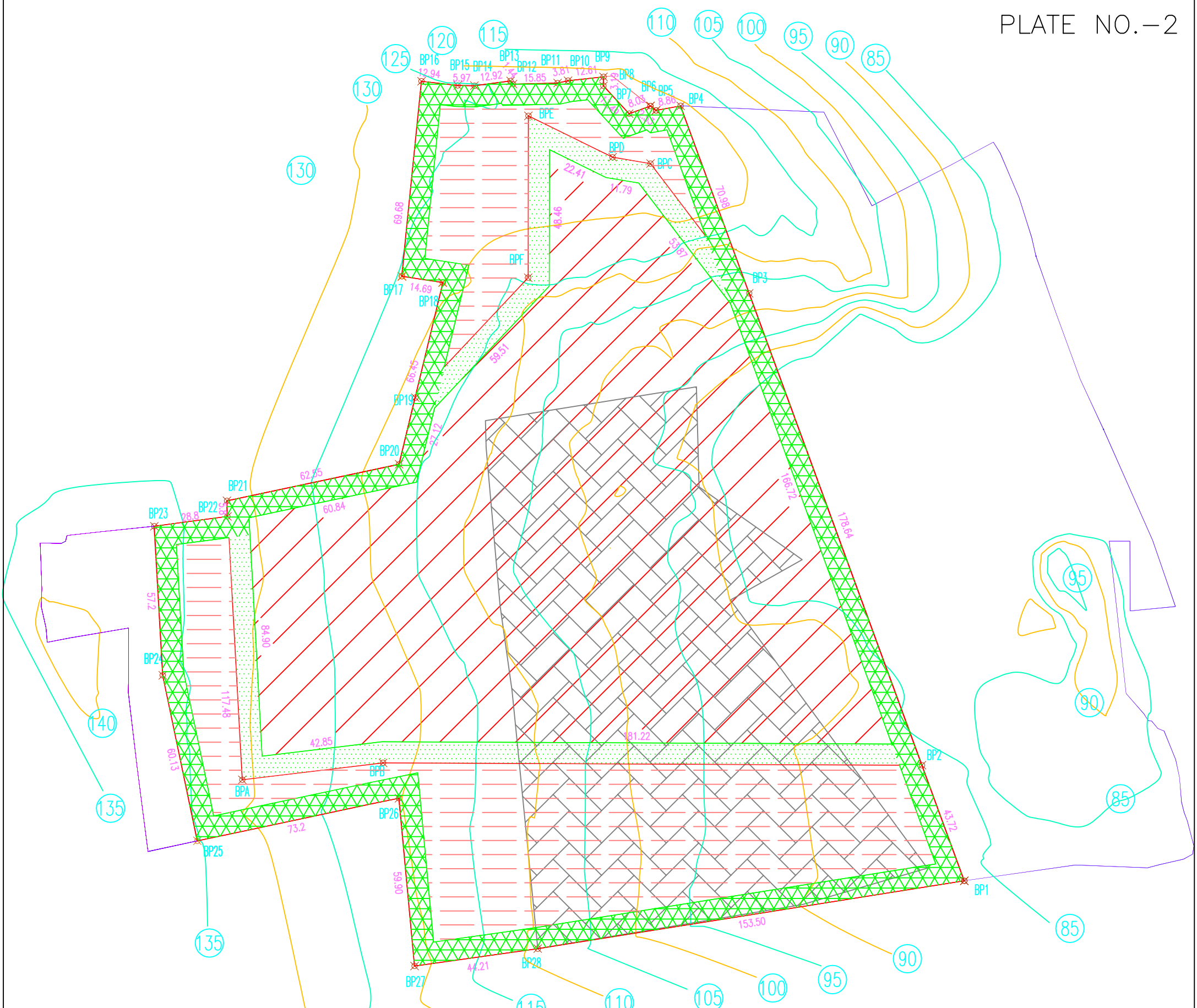
The following measures will be taken with respect to the prevailing site conditions:-

- Storm water drains with silt traps will be suitably constructed all along the periphery of the pit area to collect the run-off from the mine area and divert into the storm water pond.

- All measures will be taken not to disturb the existing drainage pattern adjacent to the other property.
- The storm water collected from the mine area will be utilized for dust suppression on haul roads, plantation within the premises, etc. The details showing the storm water drains, retaining walls are shown in **Surface Runoff Map** and same is provided at **Plate No. 9.**

TOPOGRAPHICAL CONTOUR MAP OF THE QUARRY SITE

PLATE NO.–2



SCALE 1:1500

ALL DIMENSIONS ARE IN METERS

Prepared by:

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GPS BOUNDARY PILLAR DETAILS

Point No.	Latitude (N)	Longitude (E)	Point No.	Latitude (N)	Longitude (E)
BP1	09°37'37.86"	76°42'46.13"	BP20	09°37'42.72"	76°42'39.56"
BP2	09°37'39.20"	76°42'45.64"	BP21	09°37'42.30"	76°42'37.55"
BP3	09°37'44.67"	76°42'43.65"	BP22	09°37'42.12"	76°42'37.56"
BP4	09°37'46.85"	76°42'42.87"	BP23	09°37'42.01"	76°42'36.71"
BP5	09°37'46.80"	76°42'42.58"	BP24	09°37'40.29"	76°42'36.80"
BP6	09°37'46.85"	76°42'42.51"	BP25	09°37'38.37"	76°42'37.19"
BP7	09°37'46.76"	76°42'42.27"	BP26	09°37'39.24"	76°42'39.57"
BP8	09°37'47.08"	76°42'41.97"	BP27	09°37'36.91"	76°42'39.71"
BP9	09°37'47.19"	76°42'41.97"	BP28	09°37'37.10"	76°42'41.15"
BP10	09°37'47.14"	76°42'41.55"	BP-A	09°37'39.07"	76°42'37.72"
BP11	09°37'47.12"	76°42'41.43"	BP-B	09°37'39.26"	76°42'39.36"
BP12	09°37'47.11"	76°42'40.91"	BP-C	09°37'46.18"	76°42'42.51"
BP13	09°37'47.15"	76°42'40.88"	BP-D	09°37'46.26"	76°42'42.07"
BP14	09°37'47.09"	76°42'40.46"	BP-E	09°37'46.74"	76°42'41.09"
BP15	09°37'47.10"	76°42'40.27"	BP-F	09°37'44.87"	76°42'41.08"
BP16	09°37'47.15"	76°42'39.85"			
BP17	09°37'44.89"	76°42'39.61"			
BP18	09°37'44.82"	76°42'40.08"			
BP19	09°37'43.49"	76°42'39.76"			

Project Name	:- M/s Palathra Constructions Pvt. Ltd.
Village	:- Chengalam East
Taluk	:- Kottayam
District	:- Kottayam
State	:- Kerala
Plot area	:- 5.3810 Ha.

LEGEND

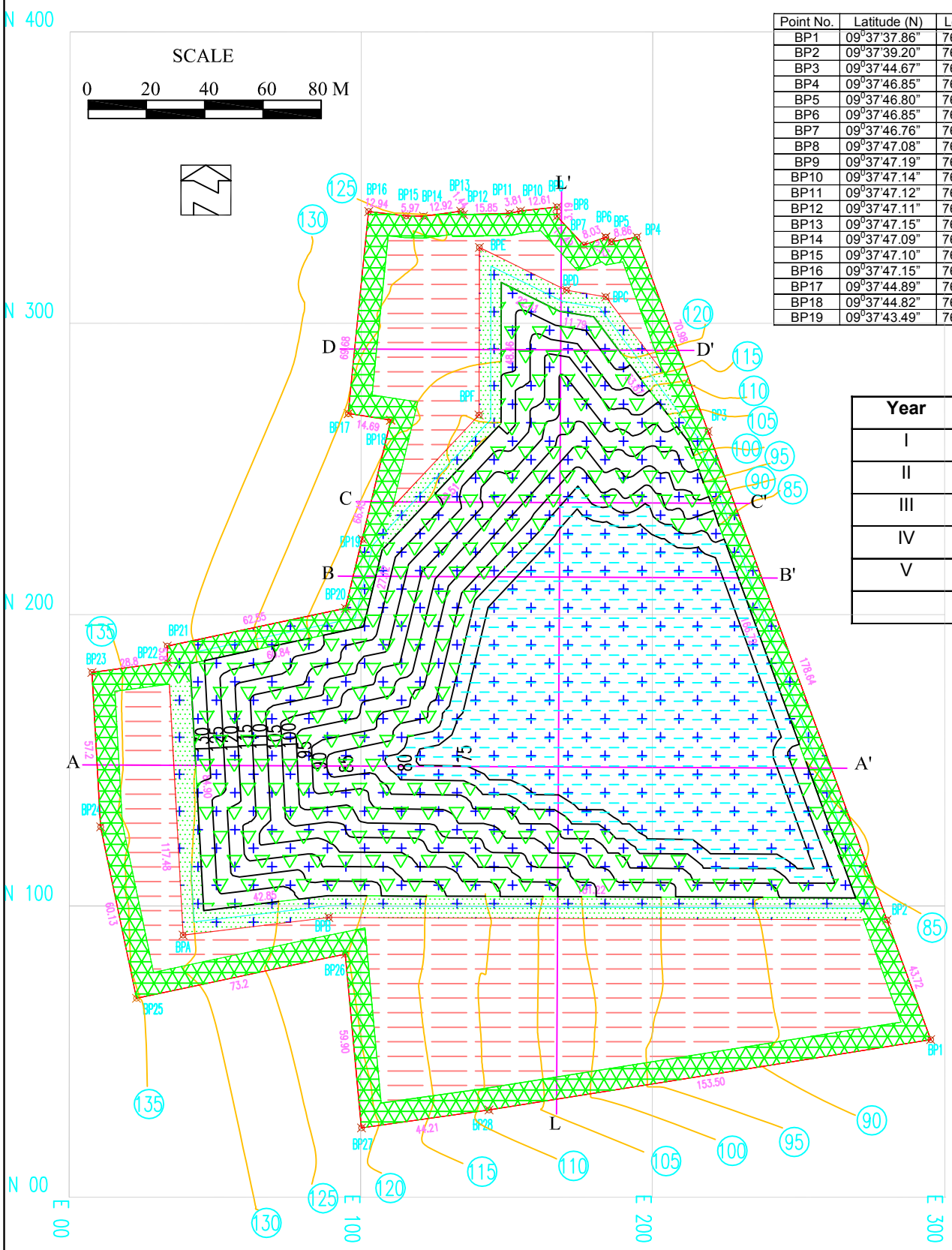
- PROPOSED MINING AREA
- NON MINEABLE AREA
- 7.5 m. SAFETY ZONE FOR APPLIED AREA & PIT AREA
- EXISTING LEASE AREA
- OVERALL PLOT BOUNDARY
- SPOT LEVELS
- CONTOUR (85)

PLATE No. 4

PROD. & DEVELOPMENT PLAN AND SECTION

SCALE

0 20 40 60 80 M



Point No.	Latitude (N)	Longitude (E)	Point No.	Latitude (N)	Longitude (E)
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BP2	09^{0}37'39.20"	76^{0}42'45.64"	BP21	09^{0}37'42.30"	76^{0}42'37.55"
BP3	09^{0}37'44.67"	76^{0}42'43.65"	BP22	09^{0}37'42.12"	76^{0}42'37.56"
BP4	09^{0}37'46.85"	76^{0}42'42.87"	BP23	09^{0}37'42.01"	76^{0}42'36.71"
BP5	09^{0}37'46.80"	76^{0}42'42.58"	BP24	09^{0}37'40.29"	76^{0}42'36.80"
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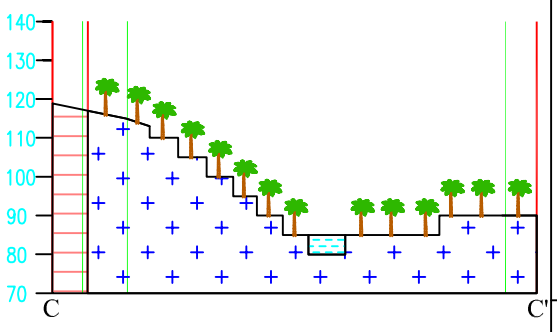
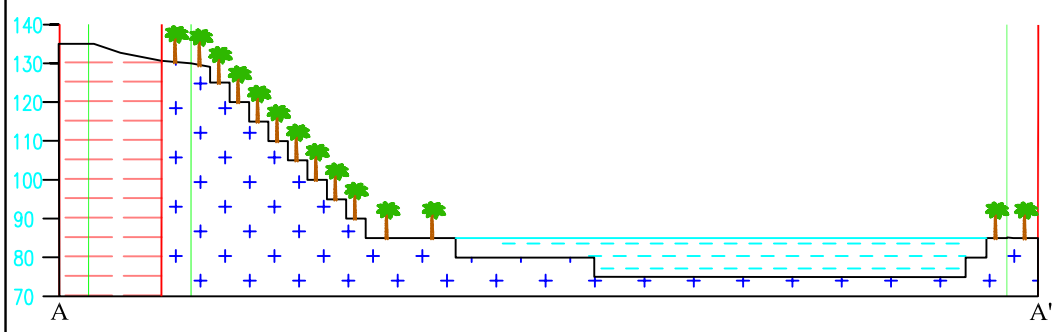
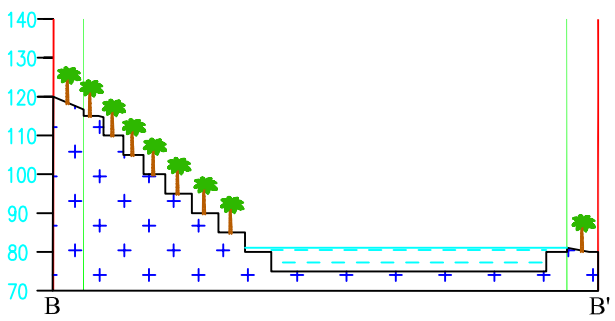
Year	Bench	Production (MT)
I	130-105	2,40,000
II	105-95	2,40,000
III	95-85	2,40,000
IV	85-80	2,40,000
V	80-75	2,27,403
	Total	**11,87,403**

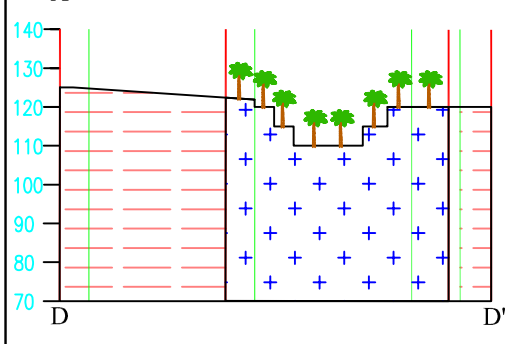
INDEX

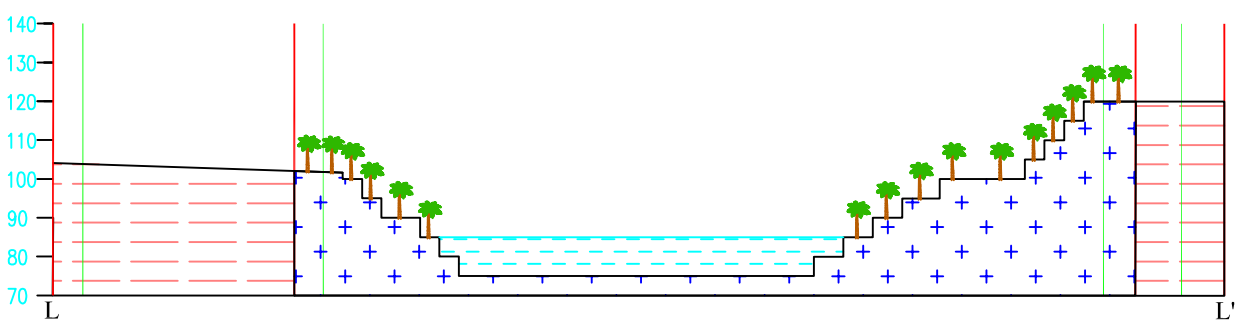
- LEASE BOUNDARY WITH FENCING
- GRANITE ROCK
- CONTOUR LINE
- SECTION LINE
- MINE SAFETY BARRIER LINE
- PLANTATION
- GREEN BELT
- RAIN WATER WAY
- YEARWISE WORKING
- RECLAIMED AREA
- NON-MINEABLE ZONE
- WATER POND
- 7.5 M. BUFFER ZONE FOR APPLIED AREA











Project Name:- M/s Palathra Constructions Pvt. Ltd.

Village :- Chengalam East

Taluk :- Kottayam

District :- Kottayam

State :- Kerala

Plot area :- 5.3810 Ha.

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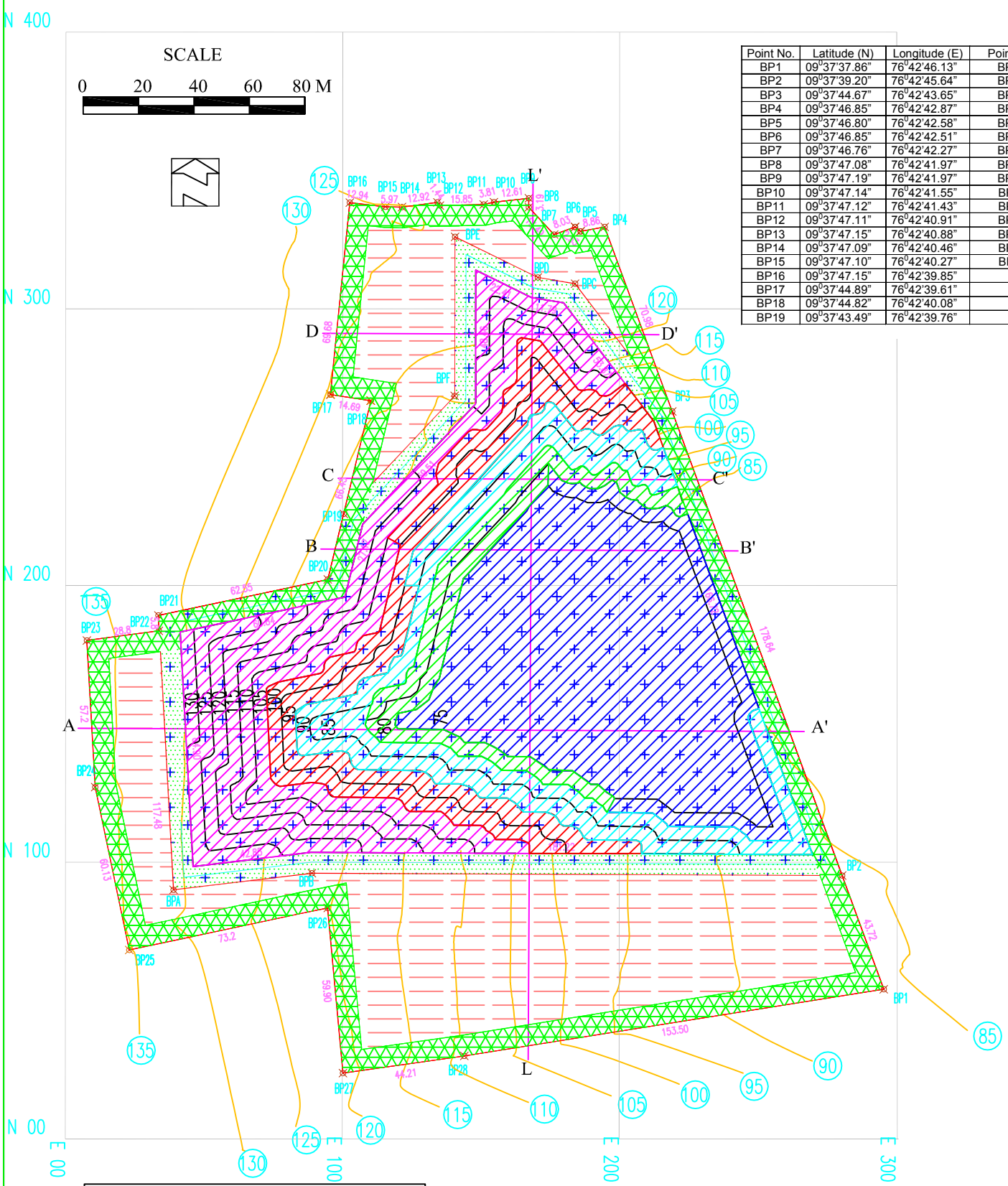

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YEAR WORKING DEV. PLAN

- I YEAR WORKING
- II YEAR WORKING
- III YEAR WORKING
- IV YEAR WORKING
- V YEAR WORKING

Year	Bench	Production (MT)
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Total		**11,87,403**

PLATE No. 5

YEARWISE TENTATIVE EXCAVATION PLAN

INDEX

- LEASE BOUNDARY WITH FENCING
- GRANITE ROCK
- CONTOUR LINE
- SECTION LINE
- MINE SAFETY BARRIER LINE
- RAIN WATER WAY
- YEARWISE WORKING
- NON-MINEABLE ZONE
- 7.5 M. BUFFER ZONE FOR APPLIED AREA

Project Name	:- M/s Palathra Constructions Pvt. Ltd.
Village	:- Chengalam East
Taluk	:- Kottayam
District	:- Kottayam
State	:- Kerala
Plot area	:- 5.3810 Ha.

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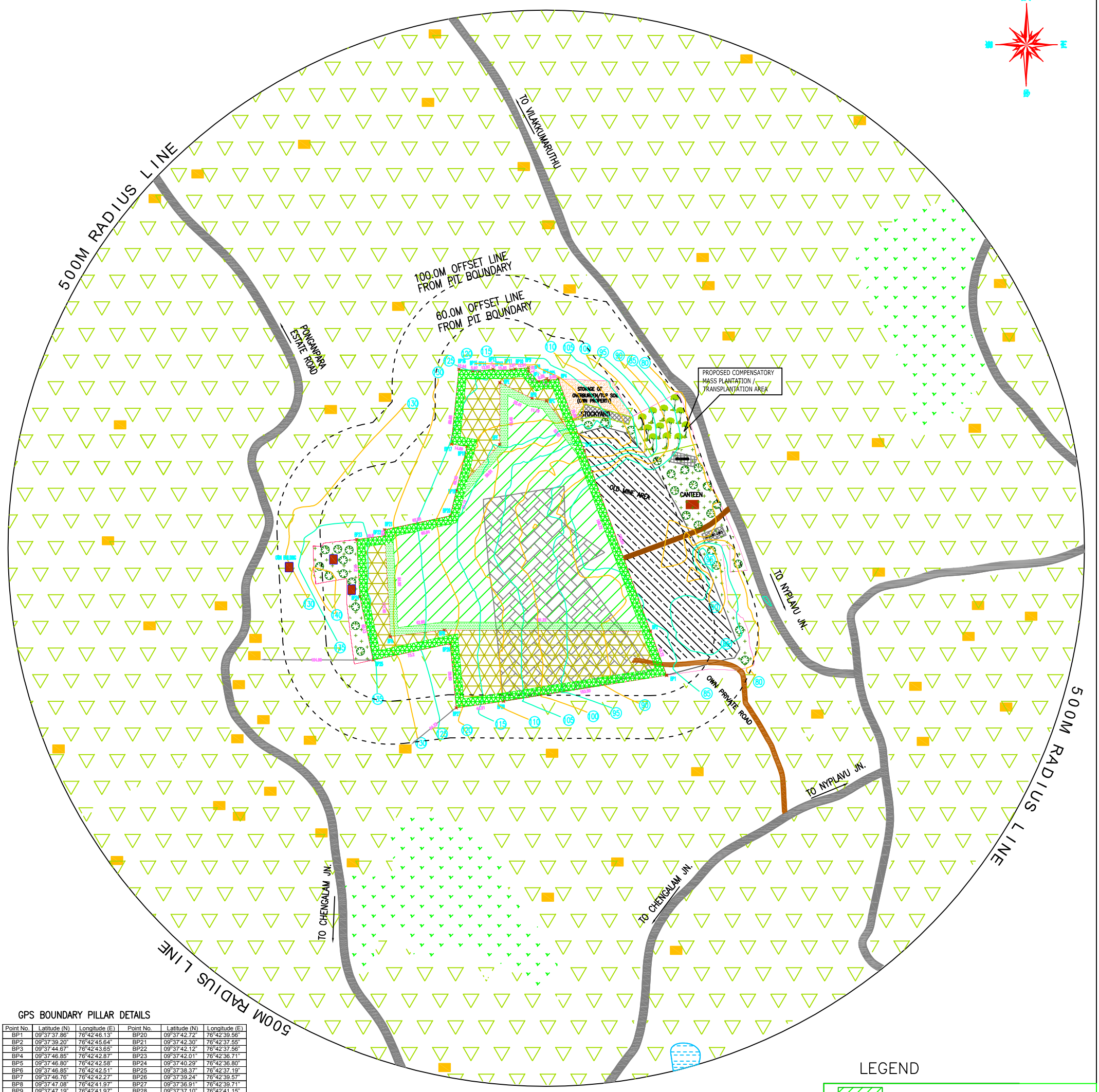
PLATE NO.–7

ENVIRONMENT PLAN OF THE QUARRY SITE



GPS BOUNDARY PILLAR DETAILS

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LEGEND

- PROPOSED MINING AREA
- 7.5 m. SAFETY ZONE FOR APPLIED AREA & PIT AREA
- NON–MINEABLE AREA
- OLD MINE AREA
- EXISTING LEASE AREA
- OVERALL PLOT BOUNDARY
- OWN HOUSES/BUILDINGS
- HOUSES/BUILDINGS (OUTSIDE)
- STORAGE OF TOP SOIL/OVERBURDEN
- PUBLIC ROAD
- PRIVATE ROAD
- GREEN AREA

Prepared by:

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NOTES :–

- PROPOSED MINING AREA =5.3810 HA.
- STATUS OF MINING AREA = EXISTING & NEW QUARRY AREA
- PLOT OWNED BY THE PROJECT PROPONENT= 8.2236 HA
- CURRENT LAND USE OF THE PROPOSED MINING AREA = ROCK AREA
- INTERNAL ROADS ARE OF 7M WIDTH (AVERAGE)

SCALE 1:4000

ALL DIMENSIONS ARE IN METERS

Project Name	:- M/s Palathra Constructions Pvt. Ltd.
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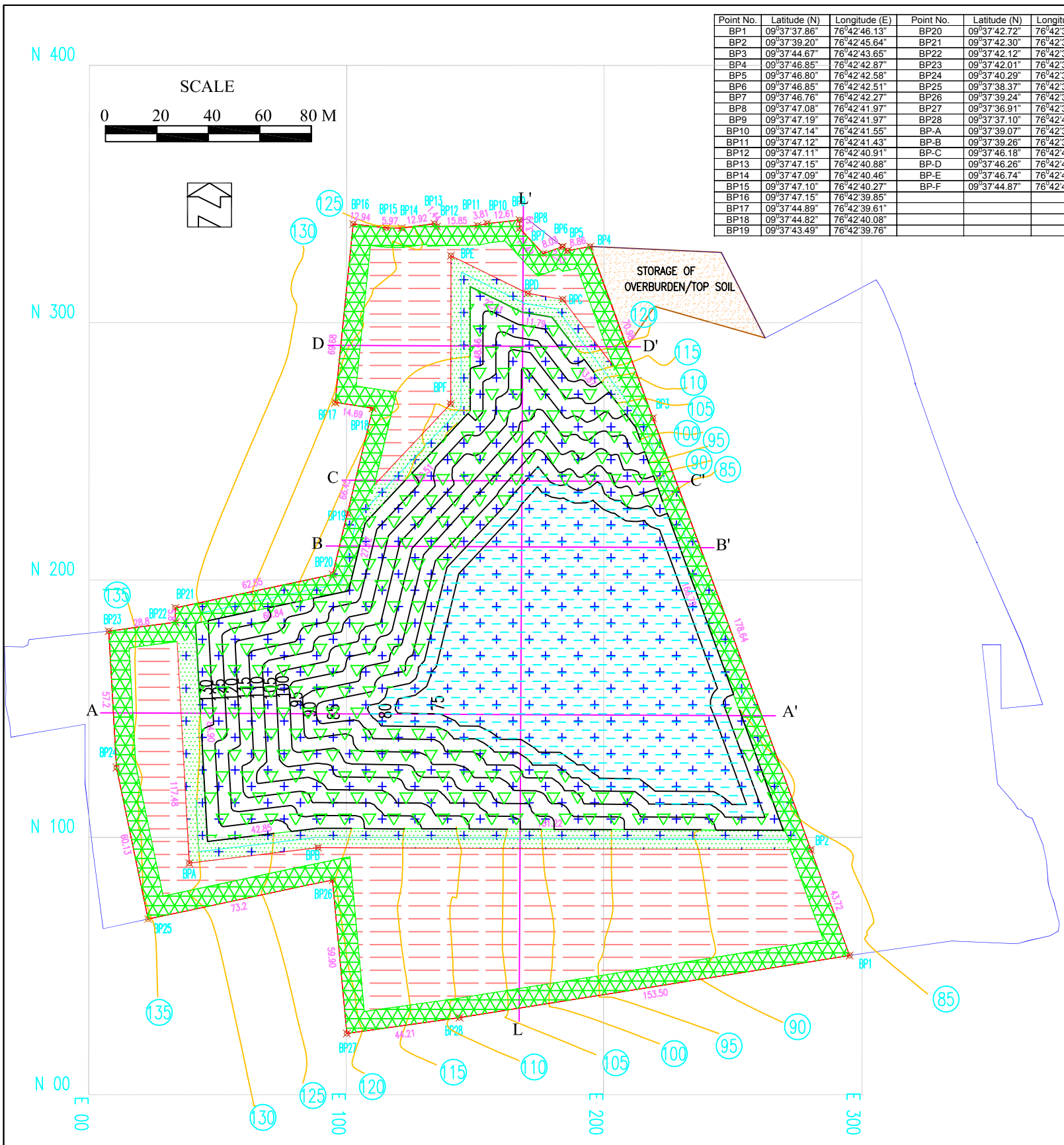

PLATE No. 9

SURFACE RUNOFF DRAINAGE PLAN

INDEX

- GREEN BELT
- LEASE BOUNDARY WITH FENCING
- GRANITE ROCK
- CONTOUR LINE
- SECTION LINE
- MINE SAFETY BARRIER LINE
- RAIN WATER WAY
- YEARWISE WORKING
- NON-MINEABLE ZONE
- OVERALL PLOT BOUNDARY
- WATER POND
- 7.5 M. BUFFER ZONE FOR APPLIED AREA

Project Name	:- M/s Palathra Constructions Pvt. Ltd.
Village	:- Chengalam East
Taluk	:- Kottayam
District	:- Kottayam
State	:- Kerala
Plot area	:- 5.3810 Ha.

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Annexure No. 2

DETAILS HAULAGE ROADS, SLOPE AT DIFFERENT SECTIONS

Haulage road :-

The gradient of the main haulage ramps must be selected to give a safe haulage profile and optimization between increased dumper cost for steeper gradient and increased construction cost for flatter gradient. Haulage ramp gradient generally used in surface mines varies from 8% to 12%.

It is generally found that there should be considerable savings in transportation cost with 8% gradient. The development of haul roads in done with a gradient of 8% to facilitate the movement of dumpers. The same gradient can be maintained in the ramps even if the excavation is carried out by benching method. As per the safety guidelines specified by the DGMS, the gradient of haul roads should not exceed 1 in 16 (6.25%) for long haul. However, it may be steepened to 1 in 10 (10%) for bench to bench ramp and short haul distance.

The plate showing the haulage roads within the mine lease area is provided at **Plate No. 10**

Slope study :-

We have prepared the contour map. The area is fully granitic rock. We also prepared, the surface cum geological map.

The section showing the slope of the mine lease area varies from 14° to 17° and which is shown in **Plate No.- 3.**

- The haul roads will be at gradient not exceeding 1:16. The benches will be joined by 5 m. wide ramps at gradient not exceeding 1:10.
- Bench height and width will be kept as 5 m , which make the total slope the pit is 45° to prevent land slide.
- The high walls will slope at 72° - 75°.
- Flatter slopes angles are adopted where occurrences of loose earth are encountered.
- No disaster like land slide, flood, the opening of the pits shall be at a level 6 m above the Highest Flood Level of River.
- Unmanageable heights are not created.
- Loose rocks are properly dressed.
- Nature and structure of the rocks are properly studied for their slips.
- The hanging wall, footwall, and mineralized zone are competent to stand safely for long time.

Conclusion:- The proposed mine site is fulfilling the open cast mining conditions. As per the KMMCR, 2015 of Mining & Geology Department, Government of Kerala and SEIAA, Kerala, if the slope angle is not more than 45°, no land slide problem is expected to be occurred.

-: GENERAL RULES :-

SLOPE STABILITY IN CASE OF OPEN CAST MINE:

1. As per the Metalliferous Mines Regulations1961, for open cast working, the following precautions shall be taken namely:-
   a) In alluvial soil, morum gravel, clay debris or other similar ground-
      i. The sides shall be sloped at angle of safety not exceeding 45 degrees from the horizontal.
      ii. The sides shall be kept benched and the height of the bench shall not exceed 1.5 m and breadth thereof shall not less than the height.
2. Where the ore body consists of comparatively hard and compact rock, the regional inspector may, by an order in writing an subject to such conditions as he may specify therein, permit the height of the bench to be increased up to 7.5 m while its width not less than 6 m.
3. In an excavation in any hard and compact ground or in prospecting trenches or pits, the side shall be adequately benched, sloped or secured so as to prevent danger from fall of sides.

In morum gravel, clay debris or other similar ground the slope angle of 45 degrees is safe. Further, the mine working has been proposed by open cast semi-mechanized method by forming systematic benches of 5 m height and 5 m width. The ultimate slope angle thus by formation of benches will be 45 degrees. In comparison to the morum gravel, clay debris or other similar ground granite rock is very hard and compact and can withstand a slope angle more than 45 degrees. It is also considered safe by Directorate General of Mines Safety (DGMS). As mentioned above in case of hard and compact rock the bench height can be increased up to 7.5 m while the breadth will be 6 m, overall slope angle by formation benches of the said dimension will be 51 degrees. Therefore the slope angle in granite mine can be increased up to 51 degrees.

Granite rock is very hard and compact and on Mohs scale of hardness it ranges between 6 to7 hardness values which are on the higher side. Considering the hardness and compactness of granite the individual bench slope will be maintained at 75°-80°, and overall slope angle will be 45°. So landslide/slope failure is not anticipated at the given slope angle.

However, other parameters may affect the rock strength like rainfall which results in physical and chemical weathering of the rock. To prevent such a situation the garland drain will be constructed to channelize the water flow.

Preventive measures already given in mining plan for slope stabilization:-

- **Drainage**: - In 7.5 m Barrier zone storm water drainage is given.
  It will help in channelization of storm water.
  To prevent water flow over the slopes which may results in opening of cracks and cause slope failure.
  To collect seasonal rainfall in the area.

- **Benches**: - Development of mine will be in the form of benches of 5 m height and 5 m breadth, overall slope angle will be 45° and individual bench slope will be 72°-80 °.

As per DGMS 45° slope angle is considered as safe.

The hill slope will be 45°, hence there will be no landslide occurrence in the area.

- **Plantation**:- Plantation proposed in the lease area will prevent soil erosion.

It also helps in controlling of water flow.

It will helps in percolation of groundwater.

Prevent rolling of stones if any.

- **Fencing**:- Fencing will be done in the lease area to prevent and control of rolling stones over slope.

At the sites of possible rock fall rock netting will be done to prevent rock fall and if needed shortcrete will also be done.

Jute geo matting will be done over the top soil / OB dump.

****

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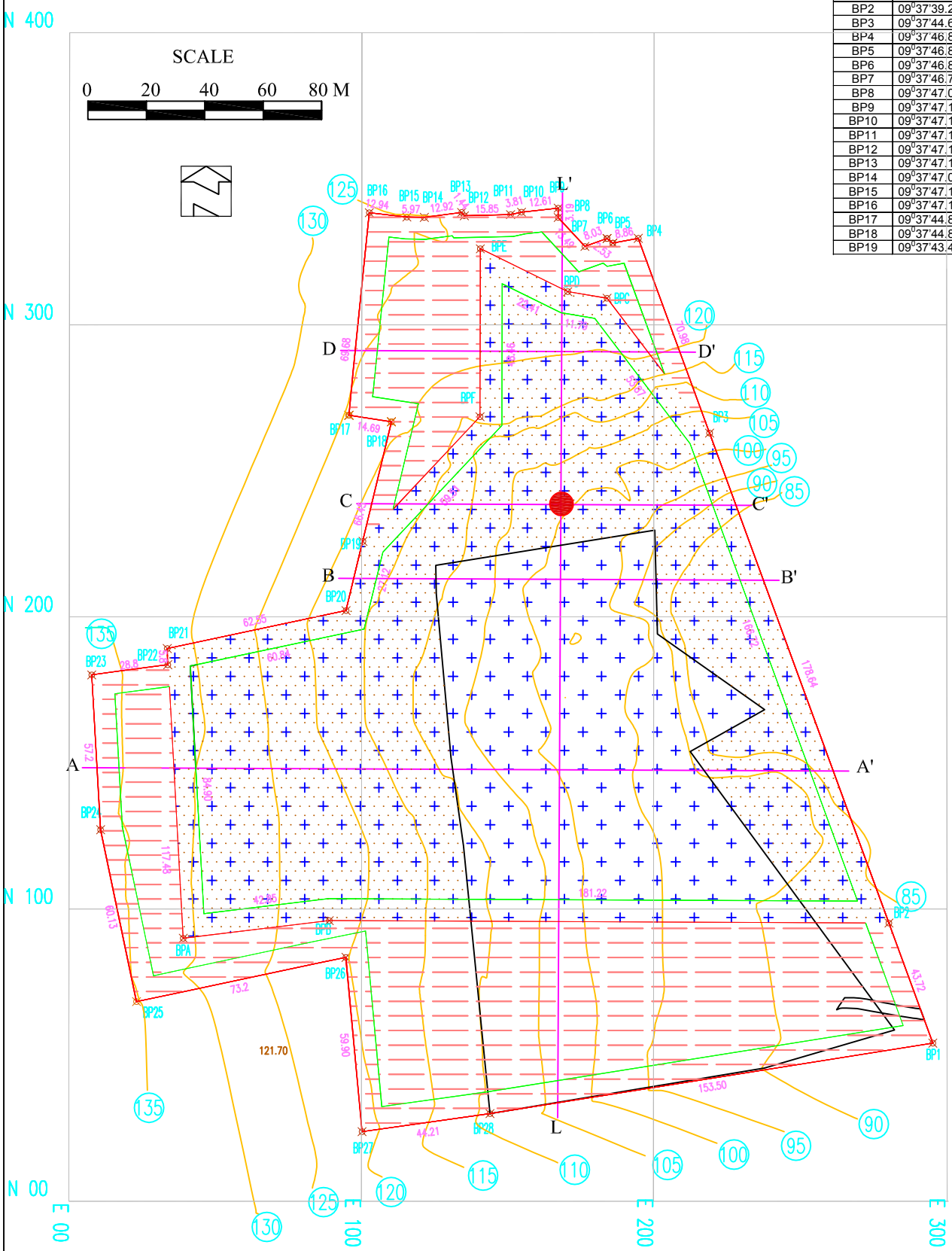
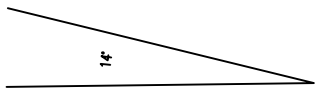
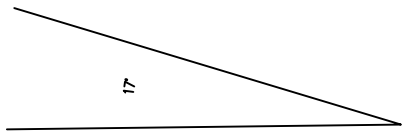
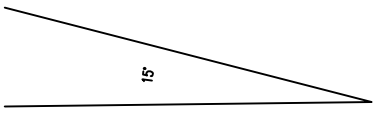




SLOPE ANGLE ALONG THE SECTION A-A'



SLOPE ANGLE ALONG THE SECTION B-B'



SLOPE ANGLE ALONG THE SECTION C-C'

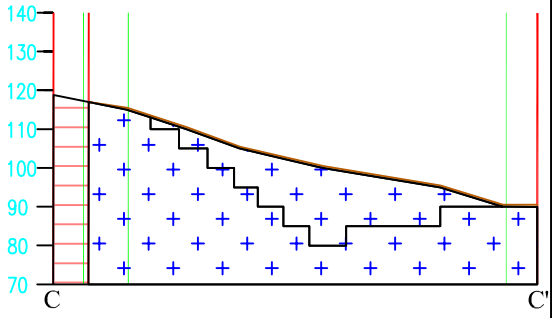
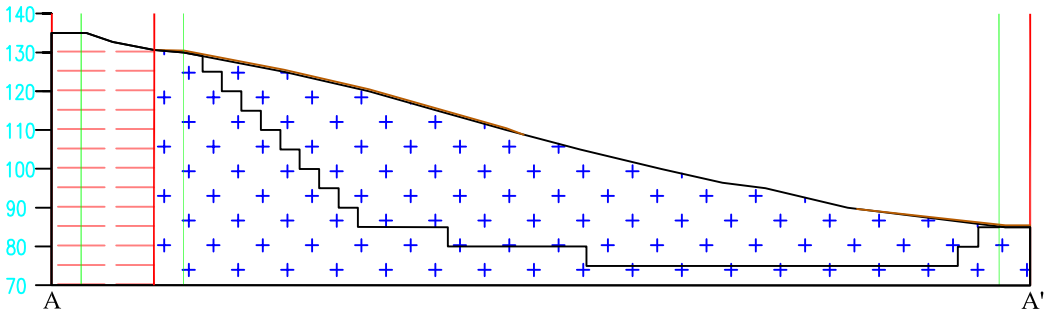


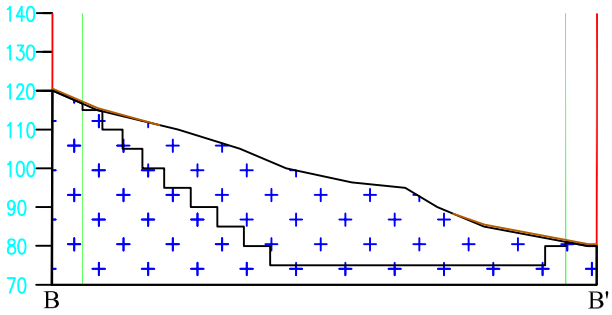
PLATE No. 3

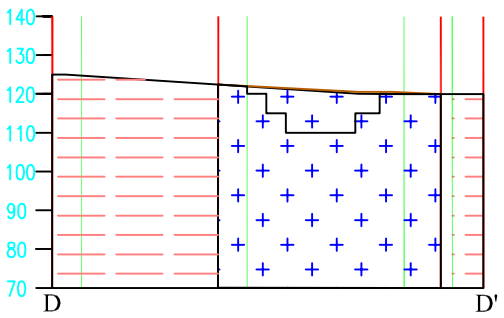
SURFACE CUM GEOLOGICAL PLAN & SECTION

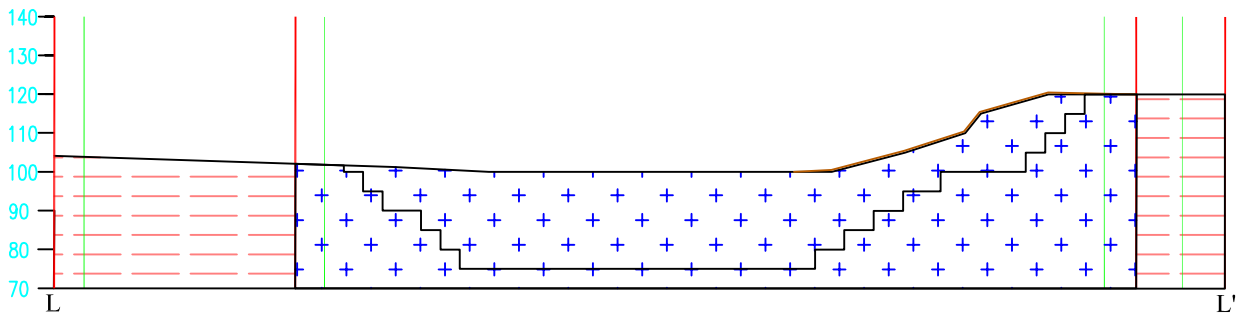
INDEX

- LEASE BOUNDARY WITH FENCING
- SOIL
- GRANITE ROCK
- CONTOUR LINE
- SECTION LINE
- MINE SAFETY BARRIER LINE
- PIT
- ROAD
- PITTING
- NON-MINEABLE ZONE









Project Name :- M/s Palathra Constructions Pvt. Ltd.

Village :- Chengalam East

Taluk :- Kottayam

District :- Kottayam

State :- Kerala

Plot area :- 5.3810 Ha.

MUKESH SUROLIYA,
M.Sc. Geology,
Recognition as Qualified Person (RQP),
(RQP No. -RQP/AJM/321/2010/A)
Indian Bureau of Mines &
Accredited Functional Area Expert (FAE),
Hydrology & Ground Water (HG) and
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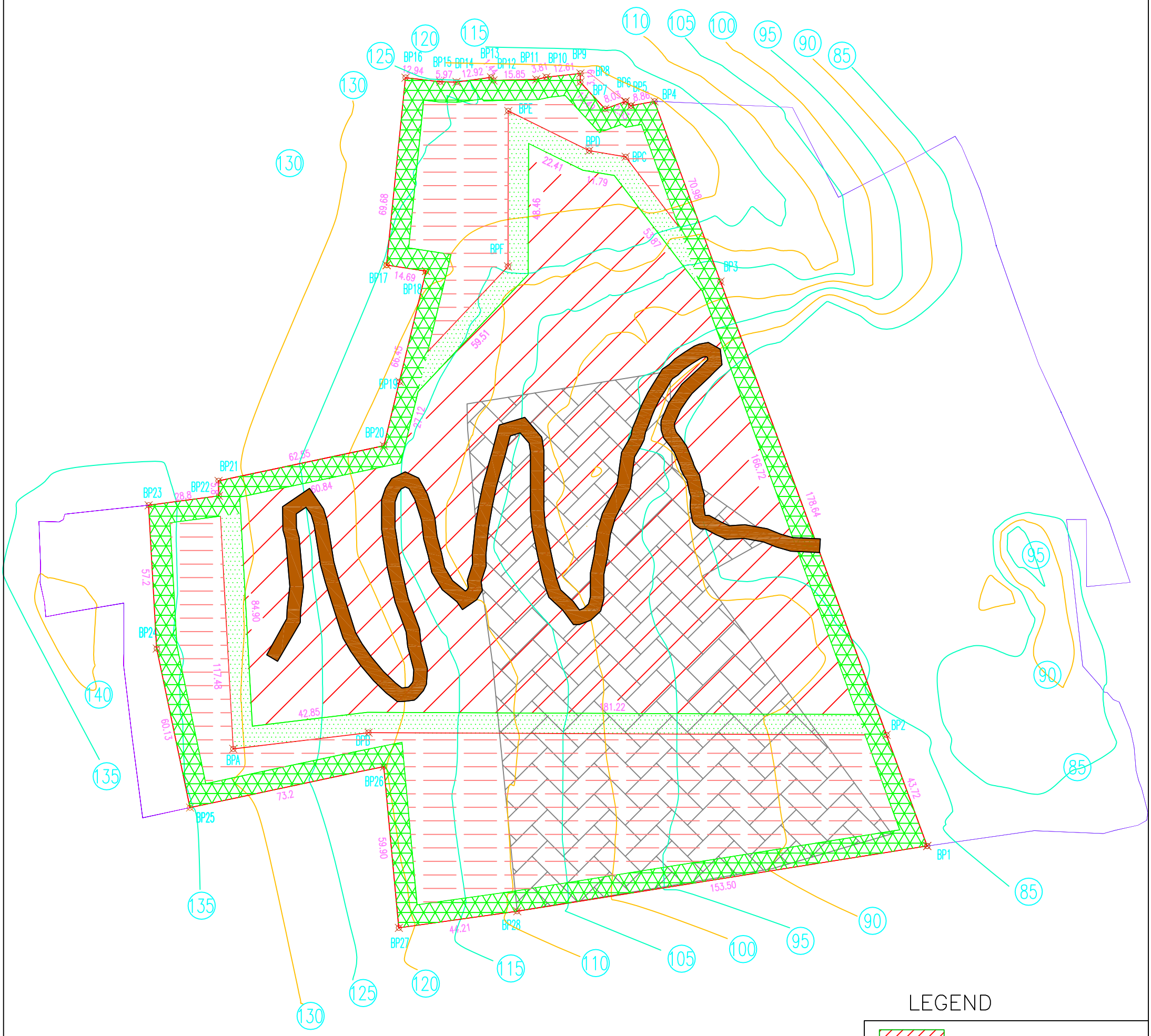
Quality Council of India (QCI)

PLATE No. 10

HAULAGE ROAD MAP OF THE QUARRY SITE



SCALE 1:1500

ALL DIMENSIONS ARE IN METERS

GPS BOUNDARY PILLAR DETAILS

Point No.	Latitude (N)	Longitude (E)	Point No.	Latitude (N)	Longitude (E)
BP1	09°37'37.86"	76°42'46.13"	BP20	09°37'42.72"	76°42'39.56"
BP2	09°37'39.20"	76°42'45.64"	BP21	09°37'42.30"	76°42'37.55"
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BP13	09°37'47.15"	76°42'40.88"	BP-D	09°37'46.26"	76°42'42.07"
BP14	09°37'47.09"	76°42'40.46"	BP-E	09°37'46.74"	76°42'41.09"
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Prepared by:

Locus Survey Specialists

CADDPLUS,VI 281,Sree Krishna Vilas,
Near Temple, Perumbavoor.
TEL: 0484-2524361,3293322
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G-147, Near GCDA Shopping Complex,
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TEL: 0484-3223755,2322755
email : mail@locusurvey.com
Mobile : +9194470 67055.

Project Name :- M/s Palathra Constructions Pvt. Ltd.

Village :- Chengalam East

Taluk :- Kottayam

District :- Kottayam

State :- Kerala

Plot area :- 5.3810 Ha.

LEGEND

- PROPOSED MINING AREA
- NON MINEABLE AREA
- 7.5 m. SAFETY ZONE FOR APPLIED AREA & PIT AREA
- EXISTING LEASE AREA
- OVERALL PLOT BOUNDARY
- SPOT LEVELS
- CONTOUR (85)

Annexure No. 3

DETAILS OF OCCUPATIONAL HEALTH ALONG WITH BUDGETARY PROVISIONS

INTRODUCTION

The following risks to human health from building stone mining activity are due to inhalation of airborne pollutants (dust and fumes) from mining activity, transportation and air borne wind erosion. The pollutants may trigger asthma, silicosis or other respiratory problems depending on the exposure time and exposed concentration. Free silica or crystalline silica is suspected to be a carcinogen and exposure limits prescribed by DGMS are 3 mg/m^3 for respirable dust and 5% of respirable dust for Free Silica.

The mining operations especially drilling, blasting, loading and unloading and transportation result in high noise levels causing deafness and tinnitus. The usage of drilling equipment and other hand held equipment operations may lead to excessive vibration resulting in hand arm vibration syndrome and circulatory problems. The work area ergonomics like awkward body postures or repetitive movements result in upper-limb disorders, repetitive-strain injury and other musculoskeletal conditions.

OCCUPATIONAL HEALTH

Quarrying operations should have some form of occupational health programme in place. Occupational health is about protecting the physical and mental health of workers and ensuring their continual welfare in their working environment. In addition to preventing ill health, other important aspects of occupational health include:

- ensuring fitness and physical capability to perform a job safely
- health education and promotion
- providing medical services including health surveillance
- rehabilitation after illness or injury.

Recruitment of employees shall be based on the skill set requirement of specific trade in the mining activity ranging from supervision to manual work. All employees undergo health monitoring during recruitment and periodically during employment depending on the age of employee. All employees are provided

with personal protective equipment depending on the trade, ranging from helmets, safety shoes, dust masks, safety goggles, gloves, ear plugs and ear muffs. The employees are made aware of the hazards related all mining activities and transportation of aggregate and the occupational safety practices to be adopted to ensure safe work environment. The frequency of health monitoring and type of evaluation is presented in the following table;

FREQUENCY OF HEALTH MONITORING

Occupation	Type of evaluation	Frequency
All employees in the mine	Chest X-ray, spirometry and vision testing, Far & Near Vision; Colour Vision; and Hearing tests	I . At the time of recruitment, II. Every 5 years to age <30; every 4 years to age 31 – 40; and every 2 years to age 41-50; Once a year above 50 years.
Noise prone areas - drilling, blasting, loading and unloading	Audiometry	Annual

The cost estimate (Budgetary provisions) for health monitoring is presented in the following table;

COST ESTIMATE

S. No.	Particular	Capital Cost (in Rs.)	Recurring Cost (in Rs.)
1	Initial medical check-up for all workers for lung function, audiometric test, tuberculosis and pulmonary disease	40,000	2000/Person
2	Provision for free medicines for all workers	-	7500/year
3	Provision for personal protection equipment like ear plug, dust mask, shoes, goggles and etc.	50,000	15% of capex
4	Provision for First Aid facilities	20,000/-	20% of capex

****

GOOGLE MAP – QUARRY SITE OF M/s PALATHRA CONSTRUCTIONS PVT. LTD.

Annexure No. 4

Point No.	Latitude (N)	Longitude (E)	Point No.	Latitude (N)	Longitude (E)
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Project Name	:- M/s Palathra Constructions Pvt. Ltd.
Village	:- Chengalam East
Taluk	:- Kottayam
District	:- Kottayam
State	:- Kerala
Plot area	:- 5.3810 Ha.

CERTIFICATE FROM RFO – PROJECT SITE IS NOT A FOREST LAND

K.K.Babu
Range Forest Officer
Erumeli

Range Forest Office Erumeli
(Emblem) E-mail (O):ro-erumeli.for@kerala.gov.in
Mob: No. 8547601211

E1-1156/18 Date : 10-05-2018.

Divisional Forest Officer
Kottayam.

Sir,

Sub: Report in respect of the Granite Quarry situated in the Patta Land

Ref: 1) Application field by the Palathra Constructions Pvt. Ltd, Thuruthy P.O Changanacherry.
2) Enquiry Report of the Placherry Deputy Range Forest Officer dated 10-05-2018.

I draw your attention to the above subject. Detailed site inspection through Placherry Range Forest Officer has been conducted on the basis of the application of Palathra constructions Pvt. Ltd. An extent of 7.214 Hectares of property comprised in Survey Nos.401/5-2, 403/1, 403/1-1, 403/2, 403/2-2-1, 403/2-3, 403/2-2, 404/1, 404/2, 404/2-6, 405/1, and 406/5 of Chengalam East Village, Kottayam Taluk, Kottayam District is the property described in the application and as per the Survey Map Prepared by the Chengalam East Village Officer, and Tahsildar Kottayam and as per the tax receipt of Chengalam East Village Officer dated 9-05-2018. Akalakunnam Grama Panchayat grantedl permission to the above institution to blast Granites as per the D & O Licence No.01/2018-19 dated 03-04-2018. It is convinced in the Site Inspection that property is not forest land and no National Park and Wild life sanctuary is situated within 10 K.Ms. Periyar Tiger Reserve Wild Life Sanctuary is situated at a road distance of 45 KMs and Air distance of 40 K.Ms.The G.P.S reading of the property in which granite quarry is situated is N 09 37'42.214" E 076 42'43.09". On the basis of the site inspection of the Placherry Deputy Range Forest Officer and Village and Panchayat documents it is convinced that granite quarry is not a forest land and all these are reported for your information and knowledge. That I hereby submit the copy of the D & O License issued by the Akalakunnam Grama Panchayat. Tax Receipt, and the Survey Map prepared by the Chengalam East Village Officer signed by the Kottayam Tahsildar.

Yours faithfully
Sd/-
Range Forest Officer,
Erumeli.

NOTARY
ANTONY VARGHESE
Date: 21/01/2021

This is the true English Translation of the Report of the Range Forest officer dated 10-05-2018

ANTONY VARGHESE
ADVOCATE & NOTARY
CHANGANACHERRY
PH: 2420444

Annexure No. 6

GREEN BELT DEVELOPMENT PLAN

- The year wise program of eco-restoration for the life of mine, about 4,300 trees will be planted in an area of 2.1528 ha. (@ 2,000 trees / ha.)
- Green belt development (Biological reclamation / ecological restoration) for the mined area by plantation of the species as per the time schedule suggested below: -
- First Six months -- Herbs & grass
- Next Six months -- Shrubs
- Next Six months onwards -- Trees
- The following species of native plants will be planted in the area earmarked for green zone and also during mine closure.

Sl No.	Trees	Shrubs
1	*Artocarpus heterophyllus*	*Dendrocalamus strictus*
2	*Artocarpus hirsutus*	*Bambusa bambos*
3	*Schleichera oleosa*	*Helicteres isora*
4	*Terminalia bellirica*	*Glycosmis pentaphylla*
5	*Syzygium cumini*	*Cycas circinalis*
6	*Wrightia tinctoria*	*Justicia adhatoda*
7	*Terminalia paniculata*	*Mussaenda frondosa*
8	*Tabernaemontana alternifolia*	*Ochlandra sp.*
9	*Tectona grandis*	*Bambusa vulgaris*
10	*Garcinia gummi-gutta*	*Ixora coccinea*
11	*Mangifera indica*	*Ixora brachiata*
12	*Dalbergia latifolia*	*Clerodendrum infortunatum*
13	*Grewia tiliifolia*	*Punica granatum*
14	*Xylia xylocarpa*	*Nerium oleander*
15	*Hopea parviflora*	*Strobilanthes ciliatus*

The green belt development plan for the mine lease area is provided at **Plate No. 6 & 8**

****

PLATE No. 6

RECLAIMATION PLAN & SECTIONS

Point No.	Latitude (N)	Longitude (E)	Point No.	Latitude (N)	Longitude (E)
BP1	09°37'37.86"	76°42'46.13"	BP20	09°37'42.72"	76°42'39.56"
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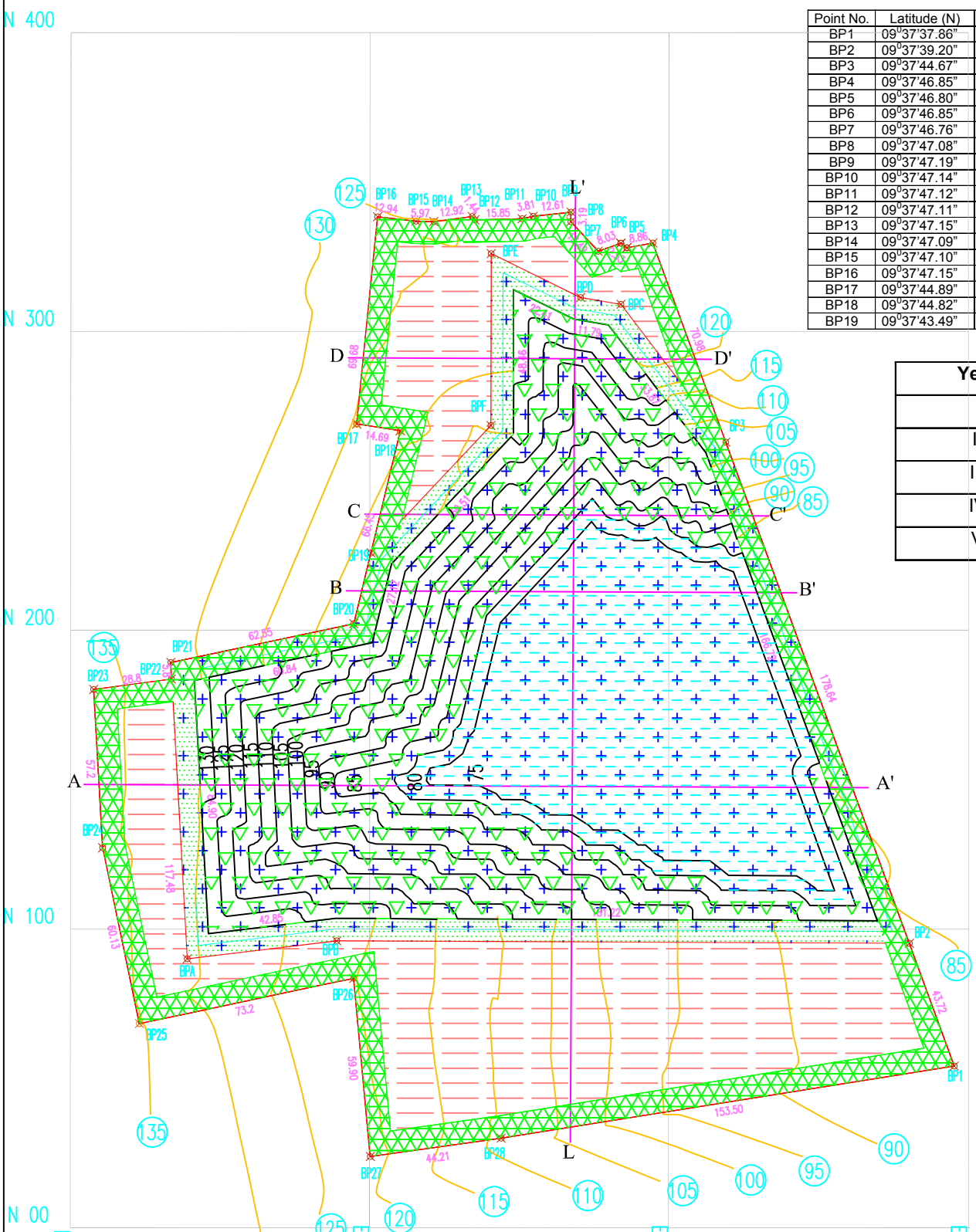
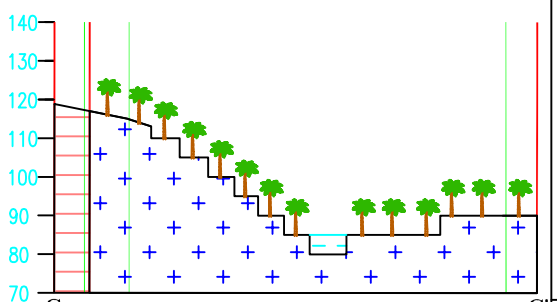
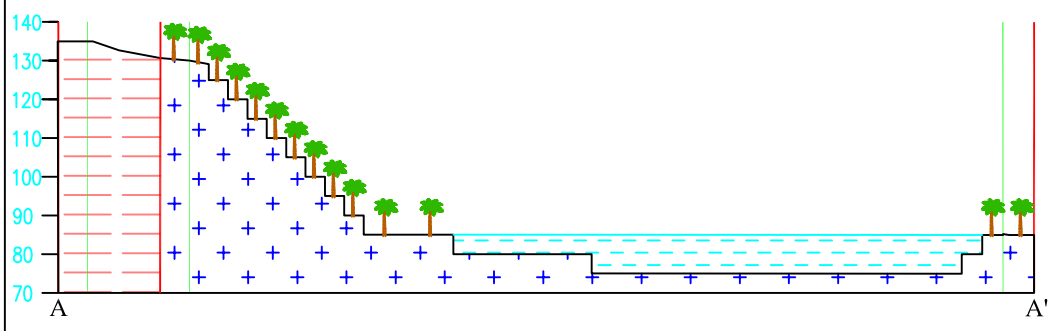
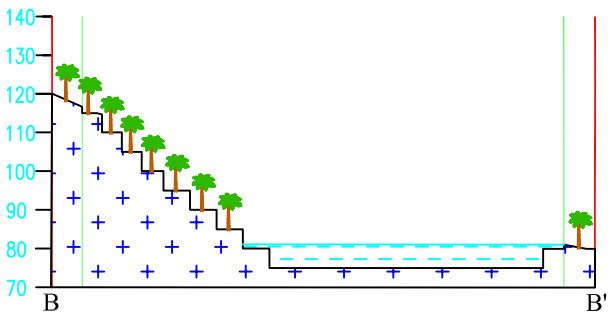
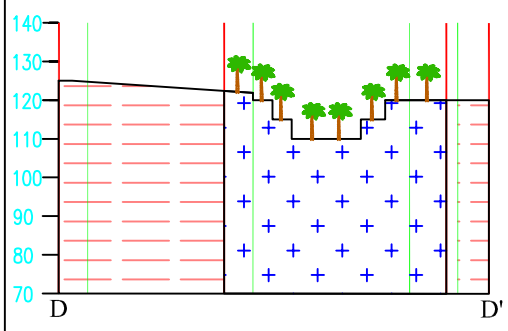
Year	Bench
I	**7.5 m barrier zone**
II	130-110
III	105-100
IV	95-90
V	85

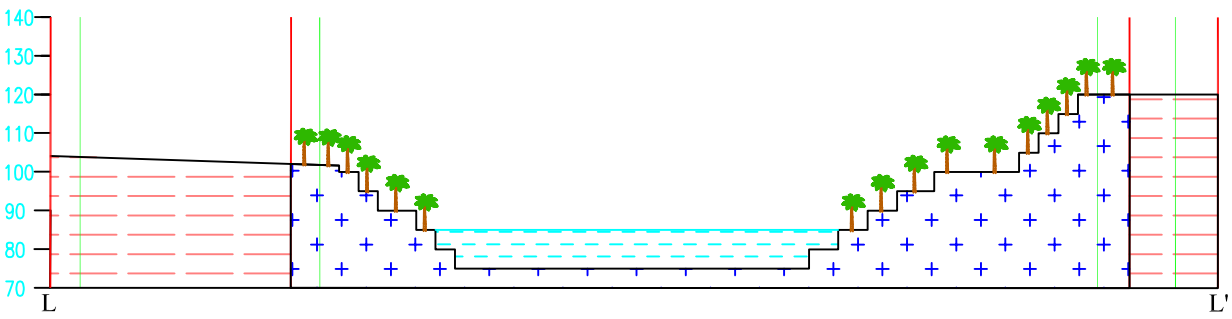












INDEX

- LEASE BOUNDARY WITH FENCING
- GRANITE ROCK
- CONTOUR LINE
- SECTION LINE
- MINE SAFETY BARRIER LINE
- PLANTATION
- GREEN BELT
- RAIN WATER WAY
- YEARWISE WORKING
- RECLAIMED AREA
- NON-MINEABLE ZONE
- WATER POND
- 7.5 M. BUFFER ZONE FOR APPLIED AREA

Project Name:- M/s Palathra Constructions Pvt. Ltd.

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PLATE No. 8

CONCEPTUAL PLAN (POST MINE CLOSURE PLAN) & SECTIONS

Point No.	Latitude (N)	Longitude (E)	Point No.	Latitude (N)	Longitude (E)
BP1	09°37'37.86"	76°42'46.13"	BP20	09°37'42.72"	76°42'39.56"
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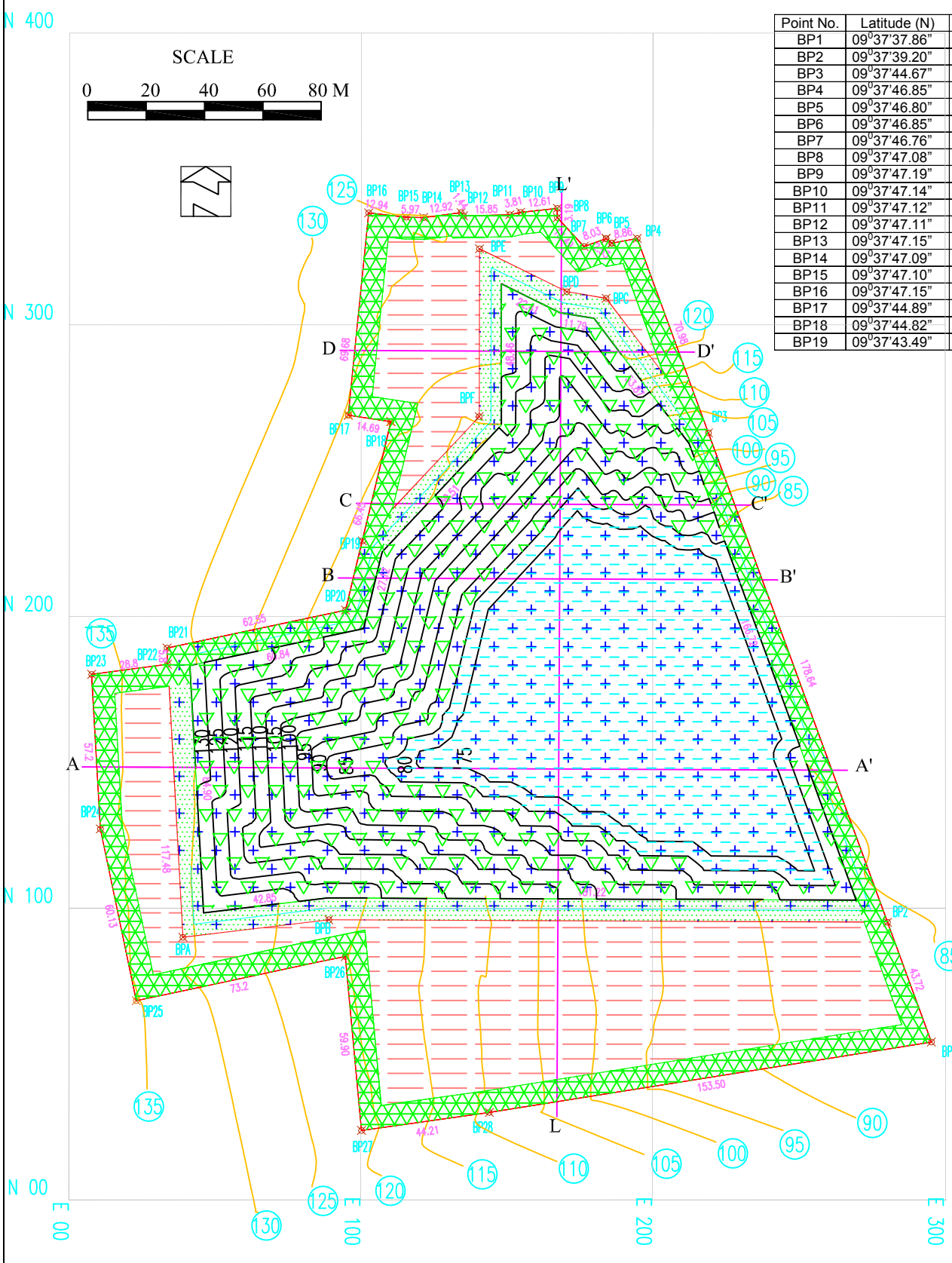
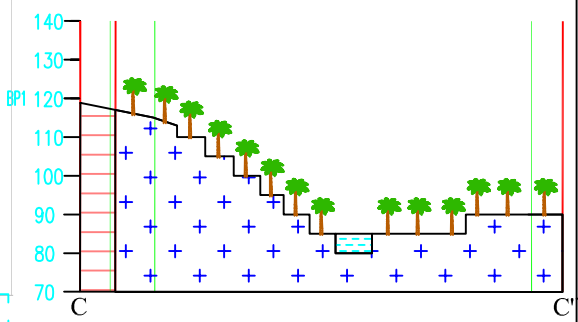
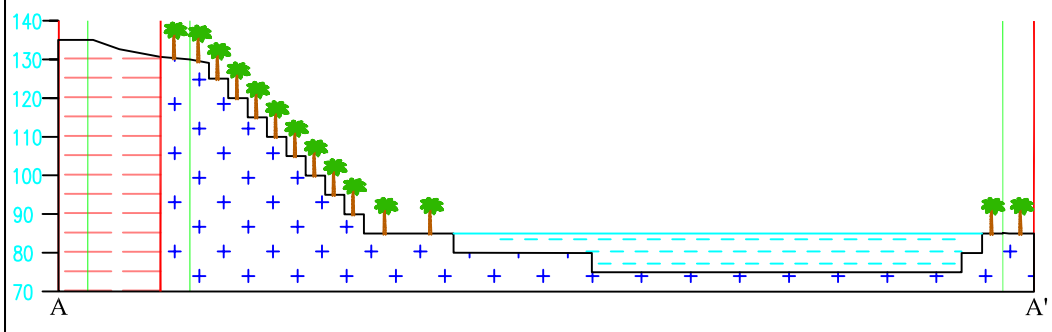
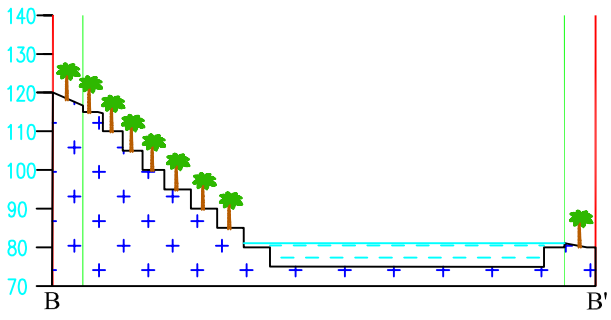
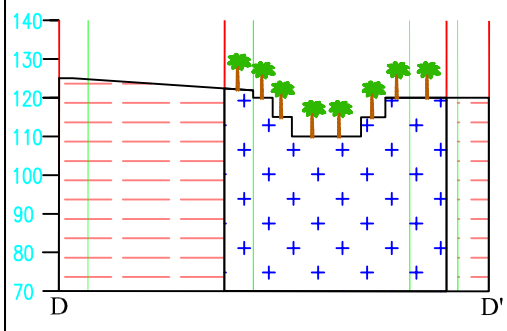
BP19	09°37'43.49"	76°42'39.76"			

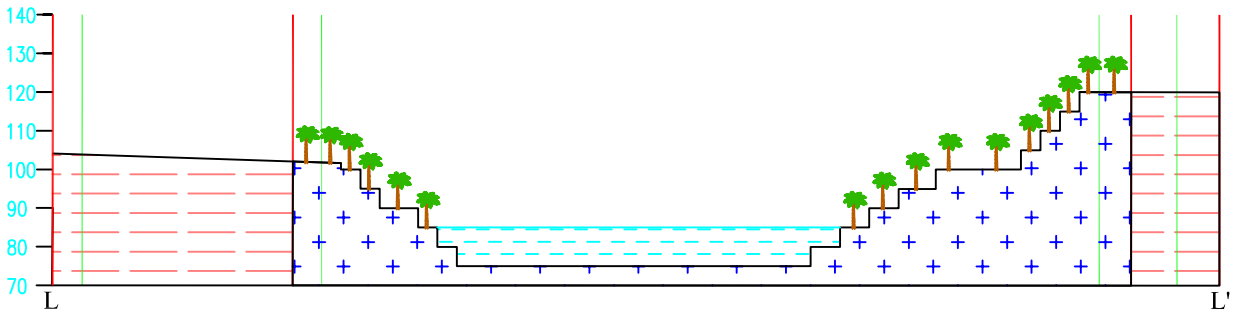












INDEX

- LEASE BOUNDARY WITH FENCING
- GRANITE ROCK
- CONTOUR LINE (85)
- SECTION LINE
- MINE SAFETY BARRIER LINE
- PLANTATION
- GREEN BELT
- RAIN WATER WAY
- YEARWISE WORKING
- RECLAIMED AREA
- NON-MINEABLE ZONE
- WATER POND
- 7.5 M. BUFFER ZONE FOR APPLIED AREA

Project Name:- M/s Palathra Constructions Pvt. Ltd.

Village	:- Chengalam East
Taluk	:- Kottayam
District	:- Kottayam
State	:- Kerala
Plot area	:- 5.3810 Ha.

MUKESH SUROLIYA,
M.Sc. Geology,
Recognition as Qualified Person (RQP),
(RQP No. -RQP/AJM/321/2010/A)
Indian Bureau of Mines &
Accredited Functional Area Expert (FAE),
Hydrology & Ground Water (HG) and
Geology (GEO) from National Accreditation Board for Education and Training (NABET),
Quality Council of India (QCI)

TEST REPORT OF FREE SILICA CONCENTRATION

TEAM
Labs and Consultants

B-115, 116, 117 & 509, Annapurna Block,
Aditya Enclave, Ameerpet,
Hyderabad - 500 038.
Ph: (O) 040-23748555, 23748616
29700244, 29700221
Fax : 040-23748666,
E-mail: teamlabs@gmail.com
www.teamlabs.in

TEST REPORT

AMBIENT AIR QUALITY DATA

Issued to:
M/s Palathra Constructions Pvt. Ltd
Sy. No. 401/5-2, 403/1, 403/1-1, 403/2, 403/2-2-1,
403/2-3, 403/2-2, 404/1, 404/2, 404/2-6, 405/1, 406/5,
Village Chengalam East, Taluk Kottayam, District Kottayam, Kerala

Average Flow rate (m^3/min) (PM_{10}): 1.14

DATA OF ANALYSIS

S.No	Parameter	Result	Unit
1	Particulate Matter <10 (PM_{10}), µg	49.8	µg/ m^3
2	Free Silica	1.32	µg/ m^3

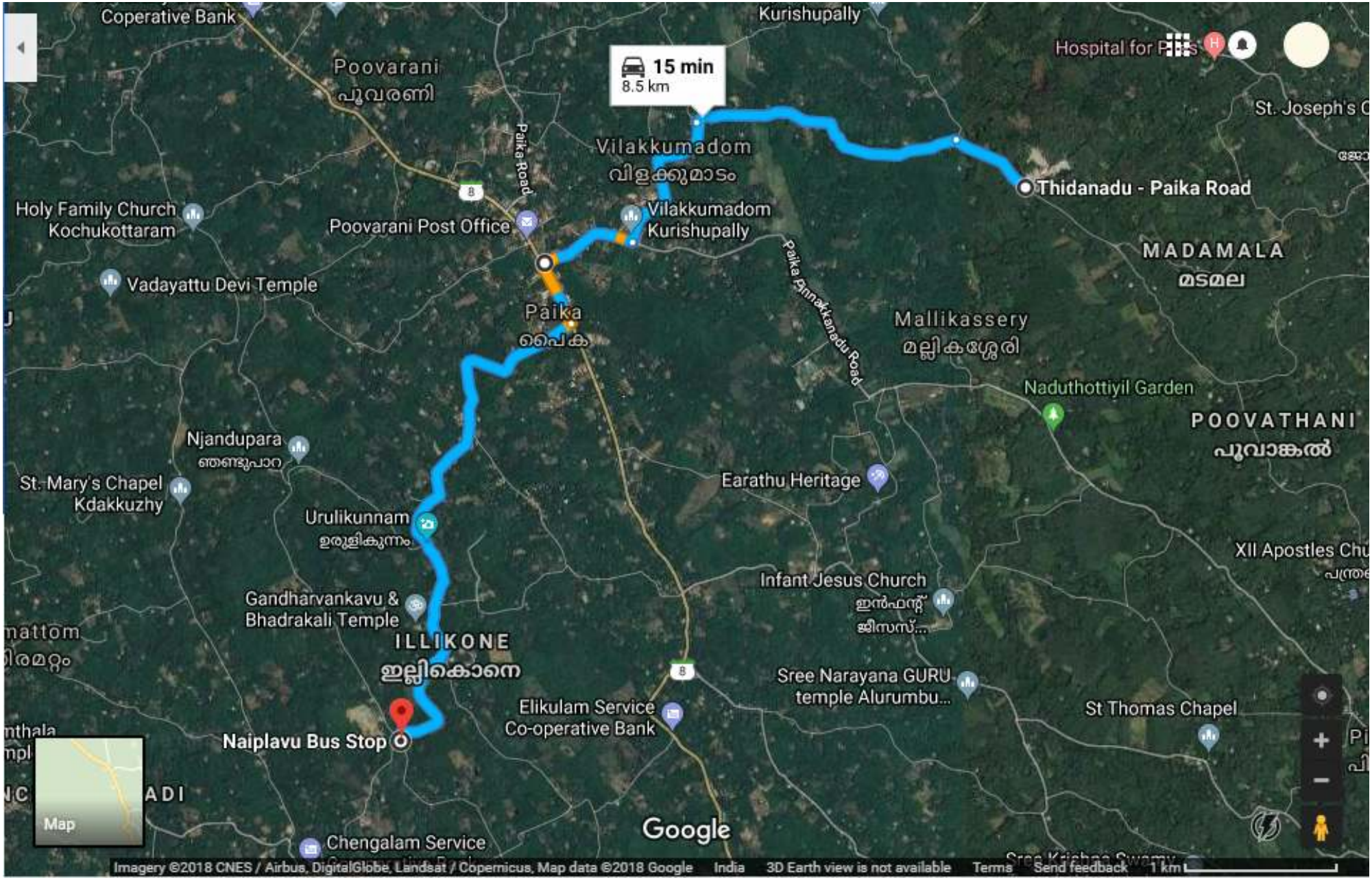
Equipment Used: Respirable Enviro Dust samplers, Model: RDS 9000.

*** End of the report***

Verified by
M. Sandhya
Environmental Chemist

Authorized by
A.Ravi Pavan
Technical Manager

GOOGLE MAP SHOWING THE ROUTE MAP FROM THE PROPOSED QUARRY TO CRUSHER UNIT



Annexure No. 8

SPECIFIC PROPOSAL ON CER ACTIVITIES

INTRODUCTION

The capital investment of the project is 4.50 Crores. In compliance to O.M. No. F.No. 22-65/2017-IA.III dated 01-05-2018, an amount equivalent to more than 2% of the project cost i.e. Rs. 9.0 Lakhs (non recurring expenses) and Rs. 0.80 Lakhs (recurring expenses) (though the project is a brown field project and the requirement is only 1% of the project cost) is earmarked for delivery the Corporate Environment Responsibility (CER).

CORPORATE ENVIRONMENT RESPONSIBILITY ACTIVITIES

To identify the needs of the nearby community to the project site, a community need assessment study was carried out in Akalakkunnam Gram Panchayat. The main purpose of the study was to assist the project proponent in delivering their Corporate Environment Responsibility (CER) activities.

Approach adopted

To conduct the study, primary and secondary data were used. Primary Data: Stake holder interviews, unstructured interview, field observation, and telephonic survey. Secondary data: Yearly project document and Development Charter of the Panchayat.

A. INFRASTRUCTURE DEVELOPMENT – CLEANING OF STORM WATER DRAIN

A thodu (storm water drain) is flowing near the project site. As part of its conservation, the project can support the Gram Panchayat to clean and preserve the stream.

Particulars	Amount (in Rs.)	Total (in Rs.)	Type of Expense
Protection wall	Lump sum	5,00,000	Non recurring
Cleaning and maintenance	Lump sum	50,000	recurring

B. RAIN WATER HARVESTING

To enhance the ground water table, the project can introduce well recharge (ground water recharging by rain water harvesting) program in the region of water scarcity. The same will be done in consultation & association with Gram Panchayat.

Particulars	Basis of Calculation	Total (in Rs.)	Type of Expense
Well recharge	Rs. 10,000 x 20 wells	2,00,000	Non recurring
Maintenance	Lump sum	20,000	Recurring

C. ENERGY CONSERVATION

A. The project proponent can support the Gram Panchayat to install solar street lights in the community.

Particulars	Amount (in Rs.)	Total (in Rs.)	Type of Expense
Solar street lights	Rs. 20,000 x 10 lights	2,00,000	Non recurring
Maintenance	Lump sum	10,000	Recurring
Total		**2,10,000**	

THE SUMMARY OF THE ABOVE ACTIVITIES

Sl. No	Areas of Intervention	Recurring Expenses (in Rs.)	Non Recurring Expenses (in Rs.)
1	Infrastructure Development (Cleaning of storm water drain)	50,000	5,00,000
2	Rain water harvesting	20,000	2,00,000
3	Energy Conservation (Solar power)	10,000	2,00,000
	Total	**80,000**	**9,00,000**

****

ANNEXURE NO. 9

CERTIFIED COPY OF THE COMPLIANCE OF EARLIER EC CONDITIONS FROM THE CERTIFICATE ISSUED FROM

RO OF THE MOEF &CC

SPEED POST

भारतसरकार
GOVERNMENT OF INDIA
पर्यावरण ,वनएवंजलवायुपरिवर्तनमंत्रालय
MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE
Regional Office (Southern Zone),
Kendriya Sadan, IVth Floor, E& F Wings, 17th Main Road,
IInd Block, Koramangala, Bangalore – 560 034,
Tel.No.080-25635901, E.Mail: rosz.bng-mef@nic.in

सत्यमेव जयते

File No: EP/12.1/2015-16/15/SEIAA/KER 222 Dated: 10th May 2018.

To

Mrs. Charles Mathew,
C/O Palathara Constructions,
Palathara House, Thuruthy P.O.,
Changanasherry,
Kottayam Dt – 686001
Kerala

Sub : Request for Certified Compliance Report on Environmental Clearance No: **835/IEC4/2713/2015/SEIAA dt. 07-05-2016:** issued to your project **SEIAA-Environmental clearance for the building stone quarry project in Sy. No. *402/1,403/1,403/2* at Chengalam East Village, Kottayam Taluk, Kottayam District, Kerala by Sri. Charles Mathew**

Ref : Your letter dated 26th 04 2018

Sir,

This is in response to your letter referred above requesting to provide a certified compliance report. In this regard, I am directed to state that this office has visited your project site on 1st May 2018 and noted the status of compliance to the stipulations in the environmental clearance issued to your project by SEIAA KERALA The monitoring report is enclosed herewith for necessary action at your end.

Yours faithfully,

(Shri. E. Thirunavukkarasu)
Scientist D

Encl. : Monitoring Report.

Note: The inspection was carried out prior to the receipt of Office Memorandum No: J-13012/23/2010-IA.II(T) dated 27.04.2018

Ministry of Environment & Forests
Southern Regional Office
BENGALURU
Monitoring Report

PART-I DATA SHEET

1	Name of the projects	M/S Palathra Constructions Pvt.Ltd Palathra Building Thuruthy P O Changanacherry
2	Clearance letter No.& date	835/EC1/2713/2015 dtd.7.5.2016
3	Location: District & State / UT	Chengalam East ,Kottayam ,Kerala
4	Address for correspondence:	M/S Palathra Constructions Pvt.Ltd Palathra Building Thuruthy P O Changanacherry
5	Contact No. of Office with name of responsible official	Charles Mathew - Mob.9645920166,9447000164
6	Mobile no. of concerned officials associated with monitoring	Charles Mathew -Mob.9645920166, 9447000164
7	a). Project cost as originally planned and subsequent revised estimates and the years of price reference	2.62 Core
	b). Allocations made for environmental management plans, with item wise and year wise breakup	Air Pollution Control – Water Sprinkling Dust suppression- 2 lakhs. Water Pollution Control De-Siltation Chamber)-1 Lakhs Environmental Monitoring and Management -5 lakhs Green area Development & Eco-Restoration 1 lakhs(Total -9 lakhs)
8	a). Actual expenditure incurred on the project so far	3.5 Core
	b). Actual expenditure incurred on the environmental management plans so far	14 lakhs
9	Date of commencement (actual and/or planned)	12.08.2016
10	Date of completion (actual and/or planned)	12.08.2026 (as per Mining plan)

11	Validity of CFO.	31/12/2018
12	Reasons for the delay if the project is yet to start.	N/A
13	Present status of the project:	Quarry Operation Under Progress
14	E-mail ID of the contact person to whom communications to be sent	palathraconstructionspvtltd@gmail.com
15	FAX Number	Nil

Subject:

Environmental Clearance No: **835/IEC4/2713/2015/SEIAA dt. 03-02-2016:** issued to your project **SEIAA- Environmental clearance for the building stone quarry project in Sy. No. *402/1,403/1,40312* at Chengalam East Village, Kottayam Taluk, Kottayam District, Kerala by Sri. Charles Mathew**

Ref. : **No. SEIAA: 835/IEC4/2713/2015/SEIAA dt. 03-02-2016:**

Project monitored by : John Thomas, Research Officer, Regional Office, Bengaluru

Brief report:

The above mentioned project was monitored on 1st May 2018 by this Regional Office. In presence of the following persons

1. Shibu Mathew (Director) - 9048490000
2. Charles Mathew (Director) - 9447000164
3. Johnson C.J (Quarry manager) - 9539700651
4. Rejikumar M.D (Asst. Manager) - 9539700794
5. Jomon M.C - 9447769899

The Project was granted Environmental Clearance by the Karnataka State Environmental Impact Assessment Authority vide EC letter no. referred above. The proposed project site falls in Latitude 09°37'36.81" to 09°37'43.32" N and Longitude 76°42'40.75" to 76°42'46.67" E. The land use classification as per revenue records is private own land.

In 2012, Mr. Charles Mathew purchased a working quarry at Chengalam East Village, Kottayam Taluk, Kottayam District, Kerala. for mining of minor minerals. The quarry was working till 2016 year with valid permit issued by Mining and Geology. In July 2015, the project proponent submitted its application for Environmental Clearance at State Environmental Impact Assessment Authority, Kerala. The project has accorded Environmental Clearance on February 2016 for an area of 2.0776 hectares. The Environmental Clearance was in the name of Charles Mathews later in 2016 the name of the project changed as Palathara Constructions Pvt. Ltd.

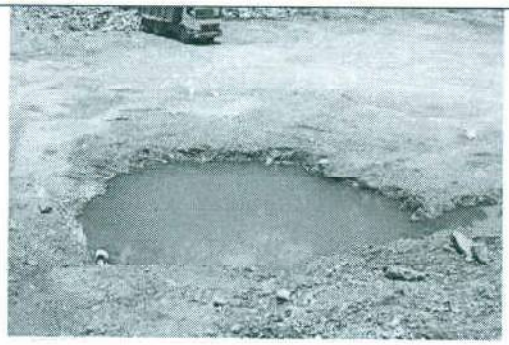
The main work of the Palathara group is construction of various roads, drainages, check dams etc,. The raw materials for the construction works are coming from the instant quarry project. At present the project proponent has 7.2148 ha. of land and currently mining is progressing on 2.0776 ha. of land. The project has been providing job opportunities to 15 people including Mines Manager, foreman, machine operators and labours. The project is intending to expand the area of quarrying activities by taking fresh Environmental Clearance.

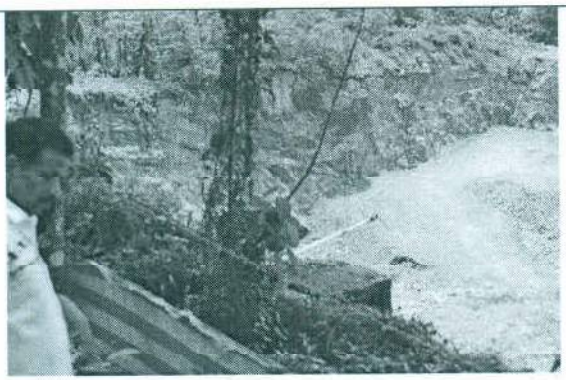
Fig. 1. **GoogleEarth map of the project area.**

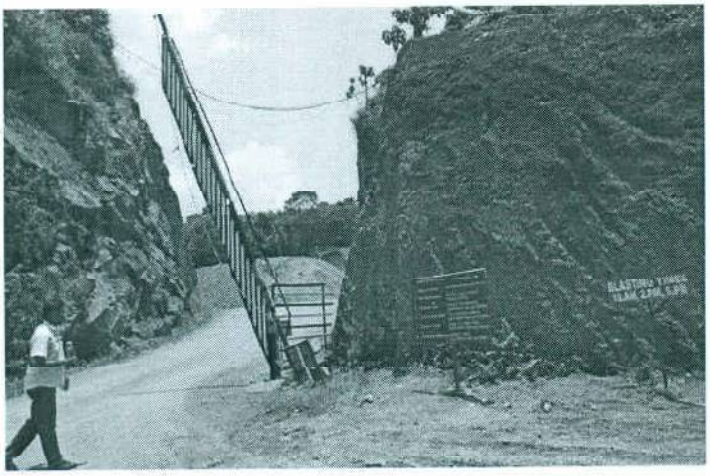
* * * * *

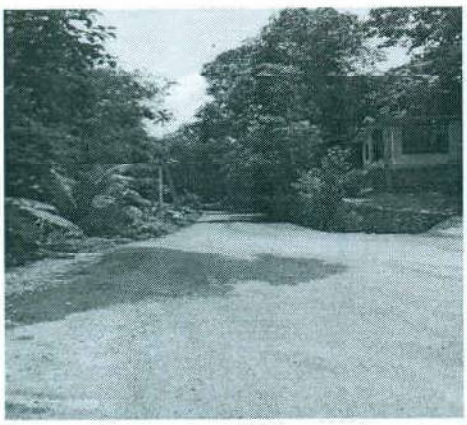
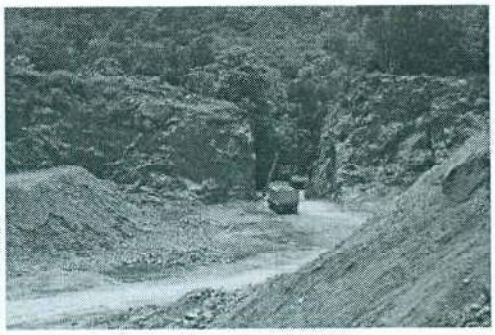
Part A- **SPECIFIC CONDITIONS**

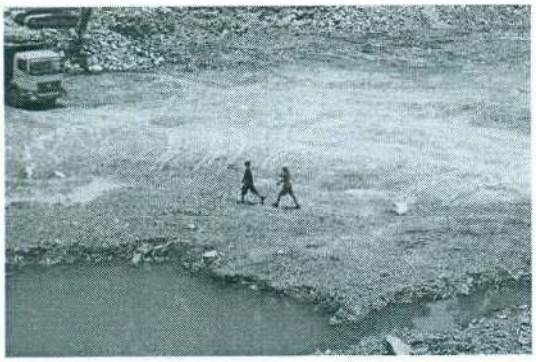
1	Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified. ***Two specific areas earmarked for rainwater harvesting has been observed. The project authorities have been instructed to construct limiting wall to the pond and channelize the run of flow into the ponds. The project authorities have agreed to do the same at the earliest***

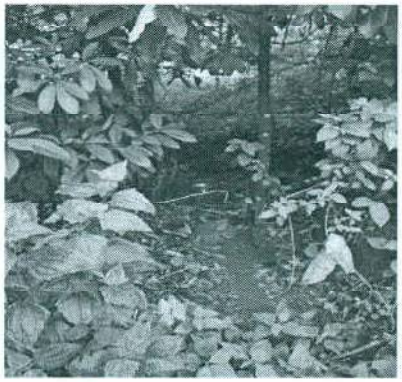
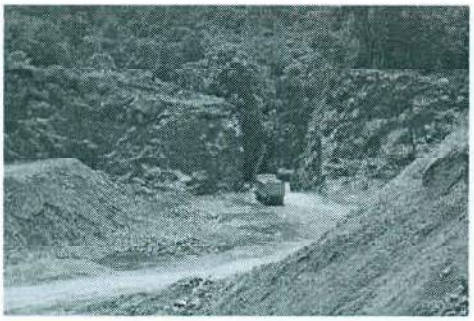
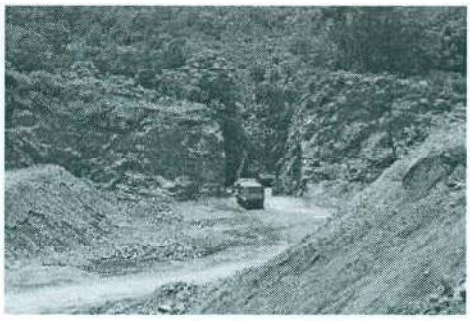
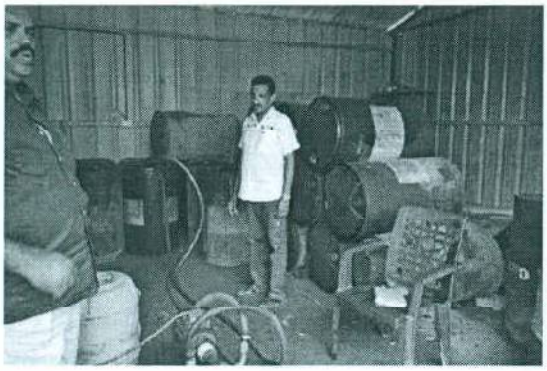
	
2	Environment Monitoring cell as agreed under the affidavit filed by the proponent should be formed and made functional. ***An environment management cell has been constituted with representatives from the environmental consultancy agency, project staff and governing bodies. A register of activities have been observed with reporting of events***
3	Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, including of approach road and internal roads. ***The project has a rich envelope of rubber plantations that circle the project area. The have also planted a wide variety of saplings in the project area. Avenue trees planting has to be augumented and the project authorities have agreed to comply to the same***
4	Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project. ***The project proponents have agreed to install solar energy installations for security lighting and staff quarters at the earliest***
5	Sprinklers shall be installed and used in the project site to contain dust emissions. ***The sprinkler system was found installed around the project area. A special tanker for sprinkling water in the thoroughfares of the project was also found operational***

	
6	Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent. At last 10 percent out of the total excavated pit area should be retained as water storage areas and the Remaining area should be reclaimed with stacked dumping and overburden and planted with indigenous Plant species that are eco-friendly. ***The project authorities have informed about the well laid out mine closure plan which shall also be re-written after the proposed expansion programme. Excavated soil has been carefully stored for future use***
7	At least 10 percent of the total area excavated pit should be retained as water storage areas and the remaining area should be reclaimed with stacked dumbing and overburden and planted with indigenous plant species that are eco friendly ***The project authority have been observed to have complied to the condition***
8	Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented ***The project authority has been receiving a number of requests for donations and social causes and the company has been found to undertake the same. A separate register of donations given out has also been maintained***
9	The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mine. ***The Mine area has been fenced as required and the geo-specific information printed on strategic posts***

10	Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department. ***The project authorities have installed a warning alarm and the operations of the same was examined. The blasting timings have also been exhibited at the gate for the benefit of the general public*** 
11	Control measures on noise and vibration prescribed by KSPCB should be implemented. ***Sand bags and other control measures for blasting has been employed by the proponents***
12	Quarrying activities should be limited to day time as per KSPCB guidelines. ***Quarrying activities are strictly limited to the day time and the mine is closed down securely with CCTV camera systems for security***
13	Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency. ***The project proponents have described all control measures undertaken by them in accordance with the regulations of the Explosives department***
14	A licensed person should supervise/ control the blasting operations.

	The project proponent has Explosive licence upto 31.03.2019 and a qualified blast men Shri. M Ezhilarasan is in the payrolls of the company supervising the operations. Copy of certificate attached as Annexure A
15	Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials. ***The access roads have been tarred at the expense of the project authorities and it was found to be well maintained.*** 
16	Overburden materials should be managed within the site and the old quarries, if any, should be reclaimed and restored. ***The overburden has ben separately stacked and well maintained*** 
17	Height of benches should-not exceed 5 m and width should not be less than 5 m. ***The bench formations were not up to the mark owing to the small size of the quarry. However the project proponent have consented to undertake bench formations as per the requirement in the expansion plan now proposed***

18	Mats to reduce fly rock blast to a maximum of 10 PPV should be provided. ***Proponents have agreed to comply***
19	Maximum depth of mining form general ground level at site shall not exceed 10m ***The limit as specified has been clearly complied***
20	No mining operations should be carried out at places having a slope greater than 45° ***The operations are being done according to mining plan leaving aside areas with slopes greater than the specified limit.***
21	Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given CPCB/KSPCB. ***The project has no crusher component in the project area.***
22	The workers on tile site should be provided with the required protective equipment such as ear muffs, helmet, etc ***Safety gears have been provided to the workforce and it was found to be used by them in the mine activities*** 
23	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.

	Garland drains were constructed and the surface run off has been guided around the periphery of the project. The project proponent has been instructed the strengthen the channel bunds. 
24	The transportation of minerals should be done in covered trucks to contain dust emissions. ***The specification to cover transport vehicles have been complied***  
25	The proponent should plant trees at least-5 times of the loss that has been occurred while clearing the land for the project. ***The green cover restoration has been undertaken by the project authorities***
26	Disposal of spent oil form diesel engines should be as specified under relevant Rules! Regulations. ***The spent oil has been stored in proper storage spaces and are protected by lock and key arrangement*** 

27	Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department. ***The explosives have been carefully stored in safe custody***
28	A minimum buffer distance of 100m from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided ***The space demarcation as specified with respect to dwelling structures have been strictly complied. All adjoining and existing structures are in the custody of the project proponents and are not used for dwelling purposes***
29	100 m buffer distance should be maintained from forest boundaries. ***There are no forest areas within the five km radius of the project.***
30	Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity. ***Copy of the valid consent to operate from the Kerala State Pollution Control board has been exhibited and a copy of the same is attached as Annexure B***
31	All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives. ***Statutory clearance from the Panchayath (Annexure C) Quarrying lease (Annexure D) were exhibited and copies of the same are attached. A copy of the permission granted by the Directorate of Mines safety is attached as (Annexure E)***
33	In the case of any change(s) in the scope of the project the project would require a fresh appraisal by this Authority. ***The project authorities are applying for expansion of the project and have dully applied to the competent authority for the same***
34	The Authority reserves the right to add additional safeguard if found necessary, and to take action including revoking of the environment clearance under the

	provisions of the Environment(Protection) Act, 1989 to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner. ***The project authorities have agreed to abide by the same***
35	The stipulation by statutory Authorities under different Acts and Notification should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974 , the Air (Prevention and control of Pollution) at 1981, the Environment (Protection) Act, 1986, the Public Liability (Insure acne) Act, 1991 and EIA Notification, 2006. ***The project authorities have agreed to abide by the same***
36	The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Department of Environmental and Climate Change, Govt. of Kerala and may also be seen on the website of the Authority at www.seiaakerala.org.in the advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all Pages should be forwarded to the office of the Authority as confirmation . ***The project authorities have complied with the condition***
37	A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayat / District Panchayat/Municipality/Corporation/Urban Local Body and also to the Local NGO, if any from whom suggestion / representations, if any were received while processing the proposal. The Environmental Clearance shall also be put on the website of the company by the proponent. **The copy of the clearance letter was submitted to the local body in obtaining a permit.**
38	The Proponent shall submit half yearly reports on the status of compliance of the stipulated EC conations including results of monitoring data (both in hard copies as well as be e-mail) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective Regional Office of MoEF, Govt. of India and also the Directorate of Environmental and Climate Change, Govt. of Kerala.. ***Regional office of MOEF&CC are in receipt of two copies of the Half Yearly Compliance reports***
39	The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft. x3 ft with green background and yellow letters of Times New Roman font of size of not less than 40.Signboard with extent

	of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public A sign Board describing all permits and clearance have been prominently exhibited at the entrance of the project
40	The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed. ***The project authorities have complied with the condition***
41	The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in an)' other permit, license on consent given by any other authority for the same project ***Proponents have agreed to comply***

The compliance of the environmental conditions are satisfactory except for the following minor aspects and the project authorities have been instructed to carry out the same at the earliest.

1. Clear formation of rainwater harvesting units in place of the designated water storage spaces
2. Strengthening of existing garland drains to prevent any run off into the project area.
3. Augmentation of solar powered installations in the effort to conserve energy.
4. Clear cut bench formations to be maintained in the specified height in all future. Mining operations.
5. More avenue trees and green cover in the project area to be planted and nurtured

The Monitoring report is submitted please

(John Thomas)
Research Officer (E)

ANNEXURE - A

GOVERNMENT OF INDIA
MINISTRY OF LABOUR
DIRECTORATE GENERAL OF MINES SAFETY, DHANBAD
***

No. Exam/Exempt/FM/UR/771 [illegible] Date : 29.12.93

To
Sri M. Ezhilarasan
Door No. 56 'L' Block
Championreef, KGF, Oorgaum

MEMORANDUM

Ref. : His application dated 21.9.93

By virtue of Government Notification No. 712(E) dated 13.12.74 Shri M. Ezhilarasan S/O Muthuraj. M. of Village L Block Bangarpet Thana Bangarpet District Kolar State Karnataka Born on 14th May 1962 possessing a Diploma in Mining Engineering and Mine Surveying approved under Regulations 18 of MMR 1961, and on completion of prescribed experience has become eligible to work in a capacity requiring possession of Foreman's Certificate under Metalliferous Mines Regulations 1961. This Certificate is effective from 31.5.93 till the above notification remains in force.

Secretary,
Board of Mining Examinations &
Director of Mines Safety (Exam)

Medically examined on 07/02/2009

Director of Mines Safety Chennai-Region.

Encl. :
1. Matric Cert.
2. Diploma Cert.
3. F.A.C.
4. S.T. Cert
5. Medical Cert.
6. Character Cert.

तारीख 07/01/19 तक मान्य/Valid upto 07/01/2019
[illegible] (Bengaluru Region)

A 0000990

GOVERNMENT OF KARNATAKA

DEPARTMENT OF TECHNICAL EDUCATION

BOARD OF TECHNICAL EXAMINATION

Reg. No. 0745683

DIPLOMA

This is to Certify that

EZHILARASAN M

having undergone the prescribed course of studies for a period of three years in

MINING AND MINES SURVEYING

has been declared to have passed in SECOND *class in the Final Examination held in the month of* APRIL - MAY *in the year* 1989

. In testimony whereof this Diploma in

MINING AND MINES SURVEYING

is awarded with the privilege to use the title D MNG E

P K Bhandary

Chairman,
Board of Technical Examinations and
Director of Technical Education

Secretary,
Board of Technical Examinations,
Bangalore.

BOARD OF TECHNICAL EXAMINATIONS GOVERNMENT OF KARNATAKA

Date of Eligibility
9 SEP 1991

0213095

St. John Ambulance Association

CERTIFICATE NO

SFA1436179

President
THE PRESIDENT OF INDIA.

Chairman Executive Committee
MINISTER OF HEALTH & FAMILY WELFARE

Secretary General
DR. S. P. AGARWAL

This is to certify that M E ZHILARASAN son/daughter of Shri M MUTHURAJ has been awarded this certificate

EXAMINATION	SENIOR	CENTRE	MAGADI
SUBJECT	FIRST AID	DATE	30.10.10

THIS CERTIFICATE WILL BE INCOMPLETE UNLESS THE HOLDER HAS AFFIXED HIS/HER SIGNATURE (OR THUMB IMPRESSION) BELOW AND WILL BECOME INVALID UNLESS HE/SHE IS RE-EXAMINED WITHIN THREE YEARS OF THE DATE OF HIS/HER EXAMINATION.

Signature or thumb impression of the holder

Dr. Navin

Surgeon Examiner

Secretary General

Computer Systems & Management Consultants Pvt. Ltd. New Delhi

NOTARY
SIBY MATHEW
THAKADIYEL
KOTTAYAM
KERALA
REG. NO. 143
FIFTY RUPEES
GOVT OF INDIA

Certified that I have perused the original this document and that this is the true copy of the original

28/12/2012

SIBY MATHEW THAKADIYEL
ADVOCATE & NOTARY
PALA KERALA

Commission expires 10-06-2017

RANGAMADAIAH
SECRETARY
St. John Ambulance
Thirumale, Magadi Taluck Centre
RAMANAGAR DISTRICT
CONTACT: 9880629041

24 MAR 2011

Certified that I have perused the original of this document and that this is the true and correct copy of the original

28/12/2012

SIBY MATHEW THAKADIYEL
ADVOCATE & NOTARY
PALA, KERALA
ROLL No K120/1991
MOBILE No. 9447231017

NOTARY
SIBY MATHEW THAKADIYEL
KOTTAYAM
KERALA
REG. No: 4143
GOVT. OF INDIA

My Commission expires
on 10-06-2017

BY REGISTERED POST

भारत सरकार/ Govt. of India
श्रम एवं रोजगार मंत्रालय/ Ministry of Labour & Employment
खान सुरक्षा महानिदेशालय/ Directorate General of Mines Safety
बेंगलुरु क्षेत्र, द.अं,/Bangalore Region ,SZ.

F-Mail : dir.blr@dgms.gov.in
No.5, 17th Main, 100 ft Road, 4th Block
Koramangala, Bangalore- 560034(Karnataka)
Tel. , 080-25535971-74 FAX: 080-25535972

स./SZ/BGR/ L/KOT/58/Auth-34(6)/P-215/2017-18/ 175 बैंगलुरु, दिनांक, 29.01.2018.

प्रेषक,
खान सुरक्षा निदेशक,
बेंगलुरु क्षेत्र, द.अं.।

सेवा में,
Shri Charles Mathew,
Nominated owner: Changalam Quarry,
M/s Palathra Constructions pvt.ltd.,"Palathara House"
Post: Thurutny Chengalnacherry,District: Kottayam (Keral)-686 103.

विषय:- Authorization under Regulation 34(6) of the Metalliferous Mines Regulations, 1961 in favour of Shri M.Ezhilarasan, holder of Foreman Certificate (Un-Restricted), to work as Manager of Changalam Quarry in Village: Chengalam East District: Kottayam in Kerala.

महोदय,

Please refer to your letters No. Nil dated 14.12.2016 on the above Subject.

In view of what has been stated in your application, I, in exercise of the powers conferred on the Chief Inspector of Mines (also designated as Director General of Mines Safety) under the Provisions of Regulation 34(6) of the Metalliferous Mines Regulations, 1961 and by virtue of the authorization granted to me by the Chief Inspector of Mines under Section 6(1) of the Mines Act, 1952, do hereby authorize Shri M.Ezhilarasan, holder of Foreman Certificate (Un-Restricted) Certificate No. Exam/Exempt/FM/UR/771/173 dated 29.12.1993 to act as Manager of Changalam Quarry in Village: Chengalam East, District: Kottayam in Kerala, up to **07.01.2019** subject to the following conditions:

1. . Manager shall not take up any appointment in any capacity whatsoever in another mine.
2. No deep hole drilling & blasting shall be conducted.
3. Not more than two excavators with total horse power not exceeding 200 and the aggregate horse power of all the machinery used in the mine including the excavators shall not exceed 500.
4. The average daily employment of persons at the mine shall not exceed 75 in all, total amount explosive used per day shall not exceed 100 kgs and underground workings shall not be made.
5. The provisions of Regulation 164(1-A)(c) and 164(1-B)(a) shall be strictly complied with.
6. Where by reason of absence or for any other reason, the manager is unable to exercise daily personal supervision, a person holding a valid Foreman's or Mate's Certificate shall be authorized

to act as Manager of the mine in compliance with Regulation 34(7) (a) (1) and if no such qualified person is available, the mine workings should be kept suspended during such absence of the Manager. Attention is drawn to Regulation 34(7)(a) and (b) in respect of the period of authorization permitted, intimation of authorization to Director General of Mines Safety, Dhanbad and the undersigned etc.

7. The above authorization shall stand cancelled as soon as the person to whom it is being granted leaves the service at the mine under reference.

8. Intimation about the termination of manager as a result of his Transfer/Termination or Service/ Resignation shall also be submitted in Form I of the First Schedule immediately.

9. No Ore dressing /handling/processing plant is attached with the mine.

10. Notwithstanding anything contained above, the authorisation may be withdrawn at any time as provided in the aforesaid Regulation.

11. If at any time any one of the conditions, subject to which this authorization has been granted, is violated or not complied with, this authorization shall be deemed to have revoked with immediate effect.

12. In the event of any change in the circumstances connected with this authorisation, intimation thereof shall be sent to this Directorate.

13. This authorisation is being granted without prejudice to any other statutory provisions, which may be or may become applicable at any time.

14. This authorisation may be amended, modified or withdrawn at any time, if considered necessary in the interest of safety.

आपका विश्वसनीय,

खान सुरक्षा निदेशक,
बेंगलुरु क्षेत्र, द.अ.।

ANNEXURE - B

KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/KTM/QR/179/2010
Date of issue :17/05/2016

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : PCB/KTM/ICO/R4/3395/2016 Valid upto:31.12.2018

Ref : 1.Consent No: PCB/KTM/ICO/R2/1790/2014 dated: 07.02.2014
2.Consent variation order dated: 07.01.2015

The ' Integrated Consent to Operate' issued as per reference above to M/s Sri. Charles Mathew (Director),Palathra Constructions (P)Ltd,Thuruthy P.O, Changanacherry is hereby renewed up to 31/12/2018 and issued to M/s Sri. Charles Mathew (Director), Palathra Constructions (P)Ltd,Palathra Building, Thuruthy P.O, Changanacherry The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

I. GENERAL

S.No.	Items	Description
1	Validity	31.12.2018
2	Capital Investment	80 Lakhs
3	Annual fee	Rs.15000/-
4	Fee remitted	Rs.48750/-
5	Extent of Land	2.07.66 Hectare
6	Products	Building Stone-150 MT/day

II. Stack Details

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

KERALA STATE POLLUTION CONTROL BOARD KOTTAYAM

III. CONDITIONS

1. This consent is granted on the basis of the affidavit submitted by the applicant and any violation noncompliance will lead to withdrawal of the consent and stringent action.
2. This consent is granted based on the Circular No.PCB/HO/TAC/GoM/953/2014 dated 13.10.2015 of the Chairman, Pollution Control Board and subject to the power of the Board to review and make variations in

all or any of the conditions as per the section 21(6) of the Act.

3. For renewal of the consent in case of continuance of discharge/operation of the industry, application in the prescribed form shall be submitted through the web portal of the Board for Online Consent Management & Monitoring system on or before 30.09.2018. Late application will be accepted with a fine or late fee as applicable.

4. The PM10 in ambient air at the boundary shall not exceed 100µg/m3.

5. The PM2.5 in ambient air at the boundary shall not exceed 60µg/m3.

6. The sound level (Leq) at 1m outside the boundary of the site should not exceed the ambient noise standard applicable to the adjoining area.

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

DATE :17/05/2016

KERALA STATE POLLUTION CONTROL BOARD KOTTAYAM

SIGNATURE & SEAL OF ISSUING AUTHORITY

K. G. SAJEEV
Environmental Engineer
Kerala State Pollution Control Board
District Office, Kottayam

OFFICE SE

To
M/s.Palathra Constructions (P)Ltd,
Palathra Building,
Thuruthy P.O,
Changanacherry.

Attested

DEPARTMENT OF MINING & GEOLOGY GOVT. OF KERALA DISTRICT OFFICE KOTTAYAM

M .M. VAHAB
Geologist
Dept:of Mining & Geology
District Office, Kottayam

अनुज्ञप्ति प्ररुप एल. ई.-3 | LICENCE FORM LE-3

(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (ग) देखिए।)
(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

(ग) उपयोग के लिए एक समय पर वर्ग 1,2,3,4,5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक रखने
Licence to possess : (c) for use,explosives of class 1, 2,3,4,5,6 or 7 in a magazine

अनुज्ञप्ति सं. (Licence No.) : E/SC/KL/22/1015(E47574)
वार्षिक फीस रुपए (Annual Fee Rs): 2400/-

1. Licence is hereby granted to

M/s.Palathra Constructions Pvt Ltd (अधिभोगी / Occupier : Mr. Charles Mathew), Palathra House, Thuruthy, Vazhappally P.O., Chenganacherry, Kottayam, Town/Village - Vazhappally, District-KOTTAYAM, State-Kerala, Pincode - 686103

को अनुज्ञप्ति अनुदत्त की जाती है।

2. अनुज्ञप्तिधारी की प्रास्थिति | Status of licensee : Company

3. अनुज्ञप्ति निम्नलिखित प्रयोजनों के लिए विधिमान्य है। : possess for use of Nitrate mixture - Slurry and Emulsion Explosives, Safety Fuse, Electric and/or Ordinary Detonators, - के उपयोग के लिए
Licence is valid only for the following purpose.

4. अनुज्ञप्ति विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है।
Licence is valid for the following kinds and quantity of explosives: – (क) (a)

क्र Sr. No.	नाम और विवरण Name and Description	वर्ग और प्रभाग Class & Division	उप-प्रभाग Sub-division	मात्रा किसी एक समय में Quantity at any one time
1.	Nitrate mixture - Slurry and Emulsion Explosives	2 ,0	0	100 Kg.
2.	Safety Fuse	6 ,1	0	2000 Mtrs
3.	Electric and/or Ordinary Detonators	6 ,3	0	4000 Nos.

(ख) किसी एक कलैंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञप्ति के लिए] : 20 times as above.
(b) Quantity of explosives to be purchased in a calendar month[applicable for licence under article 3(b) and (c)] :

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञप्त परिसर की पुष्टि होती है। रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/1015(E47574)
The licensed premises shall conform to the following drawing(s): . दिनांक (Dated) 22/06/2017

6. अनुज्ञप्ति परिसर निम्नलिखित पते पर स्थित हैं। The licensed premises are situated at following address:
Survey No(s). 403/1, 403/2-2 , ग्राम (Town/Village) : Chengalam East
जिला (District) KOTTAYAM राज्य (State) – Kerala पुलिस थाना (Police Station) : Pallikkat
दूरभाष (Phone) ई. मेल (E-Mail) पिनकोड (Pincode)
फैक्स (Fax)

7. अनुज्ञप्ति परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं। : A set of portable magazines of D and E type (manufactured by m/s. Thekkans Engg and Fat
The licensed premises consist of following facilities.

8. अनुज्ञप्ति समय – समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबन्धों के अधीन रहते हुए अनुदत्त की जाती है।
The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.

1. उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, संनिर्माण संबंधी और अन्य विवरण दर्शित करते हुए)।
Drawings (showing site, constructional and other details) as stated in serial No. 5 above.
2. अनुज्ञप्ति प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञप्ति की शर्तें और अतिरिक्त शर्तें।
Conditions and Additional Conditions of this licence signed by the licensing authority.
3. दूरी प्ररूप DE-2 | Distance Form DE-2.

9. यह अनुज्ञप्ति तारीख 31 मार्च 2012 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2012.

यह अनुज्ञप्ति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपवर्णित इस अनुज्ञप्ति की शर्तों का अधिक्रमण करने य यदि अनुज्ञप्त परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहृत की जा सकती है, जहां वह लागू हो।
This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto.

तारीख | The Date - 16/10/2009

संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosiv
South Circle, Chenn

Amendments :
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 25/05/2015
- Amendment in Drawings/Facilities/Premises dated : 20/06/2016
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 22/06/2017

Transfers :
- Change in Licensee Name/Address/Status dated : 26/05/2014
- Change in Licensee Name/Address/Status dated : 21/09/2016

नवीनीकरण के पृष्ठांकन के लिए स्थान
Space for Endorsement of Renewal

नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature of licensing authority and stamp
26/05/2014	31/03/2019	Sd/- Jt. Chief Controller of Explosives, South Circle, Chennai

कानूनी चेतावनी : विस्फोटकों को गलत ढंग से चलाने या उनका दुरूपयोग विधि के अधीन गंभीर दांडिक अपराध होगा।
Statutory Warning : Mishandling and misuse of explosives shall constitute serious criminal offence under the law.

भारत सरकार | Government of India
वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry
पट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो) | Petroleum & Explosives Safety Organisation (PESO)
पूर्व नाम- विस्फोटक विभाग | Formerly- Department of Explosives
A और D - विंग, ब्लॉक 1-ई, दूसरा तल, शास्त्री भवन | A & D - Wing, Block 1-E, IInd Floor, Shastri Bhawan
26 हड्डोउस रोड, नुंगम्बक्कम चेन्नै | 26 Haddous Road, Nungambakkam Chennai 600006
फोन (Phone):- 2828 1023 | फैक्स (Fax):- 2828 6845

संख्या (No.): E/SC/KL/22/1015(E47574)

दिनांक (Dated): 22

सेवा में | To,

M/s.Palathra Constructions Pvt Ltd,
Palathra House, Thuruthy, Vazhappally P.O., Chenganacherry, Kottayam, Town/Village - Vazhappally
District-KOTTAYAM, State-Kerala, Pincode- 686103

विषय : Survey No(s).403/1, 403/2-2, ग्राम Chengalam East, जिला KOTTAYAM, राज्य Kerala में मेसर्स M/s.Palathra Constructions Pvt Ltd द्वारा विस्फोटक के भंडारण में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SC/KL/22/1015(E47574) के संशोधन संबंधी मामले
(विस्फोटक की मात्रा / मासिक खरीद सीमा में परिवर्तन)

Subject: Possession for Use of of Explosives from magazine situated at Survey No(s).:403/1, 403/2-2, Chengalam East, Dist. KOTTAYAM, Kerala-Licence No.: E/SC/KL/22/1015(E47574) granted in Form LE-3 of Explosives Rules, 2008 -
(Amendment of Quantity of Explosives/Monthly Purchase Limit).

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या NIL दिनांक 07/06/2017 का संदर्भ ग्रहण करें।
Please refer to your letter no. NIL dated 07/06/2017.

अनुज्ञप्ति संख्या E/SC/KL/22/1015(E47574) विस्फोटक की मात्रा / मासिक खरीद सीमा में परिवर्तन के संदर्भ में यथा संशोधित कर भेजी जा रही है।
The Licence No.: E/SC/KL/22/1015(E47574) is forwarded herewith duly amended in respect of followings ;

Quantity of Explosives/Monthly Purchase Limit

किसी भी एक समय में लाइसेंस क्षमता निम्नलिखित वर्ग तथा मात्रा से अधिक नहीं होगी।
The licence capacity at any one time shall not exceed the kinds and quantities mentioned below ;

संख्या No	विस्फोटक Explosive(s)	वर्ग Class	प्रभाग Div	उप-प्रभाग Sub Div	क्षमता Capacity	इकाई Unit
1	Nitrate mixture - Slurry and Emulsion Explosives	2	0	8	250	Kg.
2	Safety Fuse	6	1	6	2000	Mtrs
3	Electric and/or Ordinary Detonators	6	3	0	4000	Nos.

किसी एक कलैंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा (अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञप्ति के लिए लागू : 20 गुना
Quantity of explosives to be purchased in a calendar month[applicable for licence under article 3(b) and (c)] : 20 times as above.

यह अनुज्ञप्ति दिनांक 31 मार्च 2019 तक प्रवृत्त रहेगी।
This Licence shall remain valid till 31st day of March 2019.

आपके खाते में रुपए 4300/- की राशि शेष है जो इस संदर्भ को उद्धृत करते हुए भविष्य के लेनदेनों में उपयोगित की जा सकती है ।
An amount of Rs. 4300/- balance is in your credit, which may be utilized for future transaction by quoting this reference.

अनुज्ञप्ति के आगामी नवीकरण हेतु कृपया विस्फोटक नियम, 2008 के नियम 112 के अंतर्गत प्रक्रिया का पालन करें। कृपया पावती दें।
For further revalidation(if required), please follow the procedure under Rule 112 of Explosives Rules, 2008. Receipt of this letter may please be acknowledged.

भवदीय | Your's faithfully

(डा. अशोक कुमार यादव | Dr. Ashok Kumar Yadav)
संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives
दक्षिणमंडल, चेन्नै | South Circle, Chennai

प्रतिलिपि प्रेषित | Copy Forwarded to:

1. उप मुख्य विस्फोटक नियंत्रक कोच्ची
   The Dy. Chief Controller of Explosives, Kochi
2. District Magistrate, KOTTAYAM, Kerala with reference to his Noc No: DCKTM/2416/2016/H4 Dated: 09/09/2016
3. Superintendent of Police, KOTTAYAM, Kerala

संयुक्त मुख्य विस्फोटक नियंत्रक (Joint Chief Controller of Explosives)
दक्षिणमंडल, चेन्नै (South Circle, Chennai)

Form DE-2
(See rule 113 of the Explosives Rules, 2008)
(Distance Form to be attached to the licence)

Safety distances required to be kept clear around magazine for high explosives or fire works or factory licence number E/SC/KL/22/1015(E47574) in form LE-3 granted to M/s.Palathra Constructions Pvt Ltd, Palalthra House, Thuruthy, Vazhappally P.O Chenganacherry, Kottayam, Kerala-.

	Type of Structure(s)	Safety distances meters	
	Inside Safety Distances(ISD)	M	UM
1	Room or Workshop used in Connection with the Magazine	11	17
2	Any other Explosives Magazine or store House or Factory of the Applicant		
3	Magazine Office		
	Middle Safety Distances(MSD)		
4	Magazine Keeper's or Chowkidar's Dwelling house		
5	Railway including Minerals and Private Railways		
6	Canal (in active use) or other navigable water		
7	Dock or Pier or Jetty		
8	Public Highway or Public Road		33
9	Private Road which is PRINCIPAL means of access to a Temple, Mosque, Church, Gurudwara or other places of worships, Hospital, College, School or Factory		
10	River Embankment or Sea Embankment or Public Well		
11	Reservoir or Bounded tank/rope way		
12	Windmillor or Solar panel for Power Generation		
	Outside Safety Distances(OSD)		
13	Dwelling House		
14	Govt. and Public Building		
15	Temple, Mosque, Church or Gurudwara or other Places of Worships		
16	Shops, Market place, Public recreation and Sports Ground, College, School, Hospital, Theater, Cinema or other Building where the public are accustomed to assemble		
17	Factory		
18	Buildings or Works used for the Storage in Bulk of Petroleum, Sprit, gas, or other inflammable or hazardous substances		45
19	Building or Works used for Storage and Manufacture of Explosives or of articles which contain Explosives		
20	Aerodrome		
21	Furnace, Kiln or Chimney		
22	Quarry or mine pit head		
23	Power House or Electric Substation		
24	Wireless Station		
25	Warehouse or other Storage Building		
26	Any other Protected works		
	Overhead Electric lines		
27	Electric Power over head Transmission Lines above 440V		45
28	Electric Power over head Transmission Lines upto 440V		15

The Date : 16/10/2009

For Joint Chief Controller of Explo
South Circle, Ch

Amendments :

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 25/05/2015
- Amendment in Drawings/Facilities/Premises dated : 20/06/2016
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 22/06/2017

Transfers :

- Change in Licensee Name/Address/Status dated : 26/05/2014
- Change in Licensee Name/Address/Status dated : 21/09/2016

ANNEXURE C

Panchayat

ലൈസൻസ് നമ്പർ 01/2018-19 തീയതി 03/04/2018

അകലക്കുന്നം ഗ്രാമ പഞ്ചായത്തിൽ നിന്നും

1994 ലെ കേരളാ പഞ്ചായത്ത് രാജ് ആക്ട് (1994 ലെ 13) 232, 233, 234, 254 എന്നീ വകുപ്പുകളും അതേ തുടർന്നുള്ള ചട്ടങ്ങളും അനുസരിച്ചു നൽകുന്ന

ഡി & ഒ ലൈസൻസ്

ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	M/s. പ്രഭാത് കൺസ്ട്രക്ഷൻസ് റെപ്രസന്റ് പ്രീതൽ പ്രഭാത് ബിൽഡിംഗ്, നന്ദനം പി.ഒ കാഞ്ഞിരപ്പള്ളി.
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും	പ്രഭാത് കൺസ്ട്രക്ഷൻസ് റെപ്രസന്റ് പ്രീതൽ പ്രഭാത് പാറമട
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	പാറ പൊട്ടിച്ച് വിൽപന നടത്തുന്നതിന്
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡു നമ്പരും	സർവ്വേ നമ്പർ. H03/01, H03/02
ലൈസൻസ് കാലയളവ്	03.04.2018 മുതൽ 04.07.2018 വരെ
ഈടാക്കിയ ലൈസൻസ് ഫീസ്	5000/- രൂപ — രസീത് നമ്പർ 1170H0105 H3, 4A 27/03/2018
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരാക്ഷേപ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാരസ്ഥാനം)	1. മൈനിംഗ് & ജിയോളജി വകുപ്പിൽ നിന്നുള്ള ധ.ഗാര0/KH/1021/2017-18 pt/1602/മൈനിംഗ്/2017 dtd 29.06.17 നമ്പർ ക്ലിയറൻസ് പ്രൊസീഡ് (കാലാവധി: 04.07.2018) 2) 2221/2018-17/KH3/KM/2018 dtd. 24.06.2018 നമ്പർ കത്തിടപാട് വഴക്കം ചെയ്തുനൽകിയ ഉത്തരവ്. 3. രണ്ടാമിൽ പഞ്ചായത്തിൽ നിന്നുള്ള 52/ഉഗ/KL/KOT/58/RUIN-DH(1)D-215/2017-18 dtd. 29.01.2018 നമ്പർ മോണിത്ത് സർട്ടിഫിക്കറ്റ് 4. പരിസ്ഥിതി നിയന്ത്രണ വകുപ്പിൽ നിന്നുള്ള 635/EC4/2015/SEIAA dtd. 03.09.2016 നമ്പർ ക്ലിയറൻസ് സർട്ടിഫിക്കറ്റ് 5. കൺസന്റ് ടു എസ്റ്റാബ്ലിഷ് നമ്പർ. PCB/KL/EC/147514 dtd. 29.06.16 6. ഫയർ സേഫ്റ്റി നിയന്ത്രണ സ്റ്റേഷനിൽ നിന്നുള്ള അനുമതിപത്രം PCB/KTM/FC01R4/93951/2016 dtd 17.09.16

സെക്രട്ടറി

സുസി ജോസഫ്

അകലക്കുന്നം ഗ്രാമപഞ്ചായത്ത്

അകലക്കുന്നം ഗ്രാമപഞ്ചായത്ത് ഓഫീസ് കോട്ടയം ജില്ല കേരള

PH:0481-2551141,9496044688

ലൈസൻസി താഴെ പറയുന്ന വ്യവസ്ഥകൾ അനുസരിക്കേണ്ടതാകുന്നു

1. കേരളാ പഞ്ചായത്ത് രാജ് ആക്ടും അതേ തുടർന്നുള്ള ചട്ടങ്ങളും ബൈലകളും അനുസരിച്ചു പ്രവർത്തിക്കേണ്ടതാകുന്നു.
2. തൊഴിൽ സ്ഥലവും അതിലുള്ള സാധനസാമഗ്രികളും പഞ്ചായത്തധികാരികൾക്കോ / ബന്ധപ്പെട്ട അധികാരപ്പെടുത്തുന്ന മറ്റ് ഉദ്യോഗസ്ഥർക്കോ പരിശോധിക്കുന്നതിന് ലൈസൻസി വേണ്ട സൗകര്യം നൽകേണ്ടതും അവർ ആവശ്യപ്പെട്ടാൽ ഈ ലൈസൻസ് കാണിക്കേണ്ടതുമാകുന്നു.
3. ഏത് സ്ഥലത്തിന്റെ കാര്യത്തിൽ ലൈസൻസ് നൽകിയിരിക്കുന്നുവോ ആ സ്ഥലത്ത് എല്ലാവരും കാണത്തക്ക വിധത്തിലുള്ള ഒരു ഭാഗത്ത് ലൈസൻസി തന്റെ പേരും, ലൈസൻസിന്റെ നമ്പരും ഉദ്ദേശവും കാണിക്കുന്ന ഒരു അടയാളപ്പലക വച്ചിരിക്കേണ്ടതാണ്.
4. പഞ്ചായത്തിൽ നിന്നും അനുവാദം ലഭിച്ചശേഷമല്ലാതെ തൊഴിൽ സ്ഥലം മാറ്റാൻ പാടില്ലാത്തതും തൊഴിൽ നിർത്തുന്ന പക്ഷം വിവരം മുൻകൂട്ടി പഞ്ചായത്തിൽ അറിയിക്കേണ്ടതുമാകുന്നു.
5. തൊഴിൽ സ്ഥലവും പരിസരങ്ങളും വൃത്തിയായും സാംക്രമികരോഗാണുക്കൾ ഉണ്ടാകാത്ത വിധത്തിലും പൊതുജനോപദ്രവമാകാത്ത വിധത്തിലും വ്യാപാരത്തിനു വച്ചിട്ടുള്ള ഭക്ഷണപദാർത്ഥങ്ങൾ ഈച്ച, അണുക്കൾ, പൊടി മുതലായവയുടെ ശല്യം ഉണ്ടാകാത്ത വിധത്തിലും സൂക്ഷിക്കേണ്ടതാണ്.
6. ഓരോ പ്രവർത്തി ദിവസത്തിന്റെയും ഒടുവിൽ സ്ഥലം വൃത്തിയാക്കേണ്ടതാണ്.
7. ആ സ്ഥലത്തിന്റെയോ പരിസരത്തിന്റെയോ, ഏതെങ്കിലും ഭാഗത്ത് വീഴുകയോ നിക്ഷേപിക്കപ്പെടുകയോ ചെയ്യുന്ന ചപ്പുചവറോ, മൃഗങ്ങളുടെ അവശിഷ്ടങ്ങളോ മറ്റ് പദാർത്ഥമോ ശ്രദ്ധിച്ച്, സെക്രട്ടറിക്ക് തൃപ്തികരമായ രീതിയിൽ നീക്കം ചെയ്യിക്കേണ്ടതാണ്.
8. ലൈസൻസി ഏതൊരു കെട്ടിടത്തിന്റെയും പുറപ്പുകളുടെ ആകവശത്തിന്റെ ഏതൊരു ഭാഗവും മേൽപറഞ്ഞ പരിസരത്തിലുള്ള തറയും നടപ്പാതയും അവിടെ തെറിച്ചുവീഴാനിടയുള്ള ഏതെങ്കിലും ദ്രാവകമോ, മാലിന്യമോ, ചപ്പുചവറോ,അസഹ്യവും, ഉപദ്രവകരവുമായ ഏതെങ്കിലും പദാർത്ഥമോ അവിടെ ലയിക്കുന്നത് തടയത്തക്കവിധം എപ്പോഴും നന്നായി കേടുപാട് തീർത്ത് നിലനിർത്തേണ്ടതാണ്.
9. ലൈസൻസി മേൽപറഞ്ഞ സ്ഥലത്തോ, പരിസരത്തോ അതോടു ചേർന്നോ ഉള്ള ഏതൊരു ഓവുചാലും, അഴുക്കുജലം കളയുന്നതിനുള്ള ഉപകരണവും എപ്പോഴും നന്നായി കേടുപാടുതീർത്ത് വയ്പിക്കേണ്ടതാണ്.
10. അയിത്തം ആചരിക്കുന്ന കടകളുടെ ലൈസൻസ് റദ്ദുചെയ്യുന്നതാണ്.
11. എതെങ്കിലും തരത്തിലുള്ള തക്ക് രോഗമോ കുഷ്ഠ രോഗമോ വ്രണമോ പകർച്ച വ്യാധികളോ ഉള്ള യാതൊരാളും കച്ചവടം നടത്തുന്നതിന് ഉപയോഗിക്കുന്ന സ്ഥലത്തും പരിസരത്തും പ്രവർത്തിക്കുവാൻ പാടില്ലാത്തതാകുന്നു.
12. 40 മൈക്രോണിൽ കൂറവുള്ള പ്ലാസ്റ്റിക്കുകളും മറ്റ് നിരോധിത പ്ലാസ്റ്റിക്ക് ഇനങ്ങളും ഉൽപ്പാദിപ്പിക്കുകയോ ശേഖരിക്കുകയോ വിൽക്കുകയോ കൈകാര്യം ചെയ്യുകയോ ചെയ്യാൻ പാടില്ല.
13. സ്ഥാപനത്തിന്റെ ബോർഡിൽ സ്ഥലനാമം മലയാളത്തിലും ഇംഗ്ലീഷിലും രേഖപ്പെടുത്തേണ്ടതാണ്.
14. 20 സീറ്റിൽ കൂടുതലുള്ള എല്ലാ ഹോട്ടലുകൾക്കും റെസ്റ്റോറന്റുകൾക്കും ടോയ്ലെറ്റ് സൗകര്യം ഏർപ്പെടുത്തേണ്ടതാണ്.
15. നിരോധിത ഉൽപന്നങ്ങളായ പാൻമസാല, ഗുഡ്ഖ തുടങ്ങിയവ സംഭരിച്ചുവയ്ക്കുവാനോ വിൽക്കുവാനോ പാടില്ല.
16. കോഴിമുട്ട ഉൽപ്പാദനം അനുവദിക്കാൻ പാടില്ല.
17. മുകളിൽ കാണിച്ചിരിക്കുന്ന വ്യവസ്ഥകളുടെ ലംഘനം ഈ ലൈസൻസ് റദ്ദ് ചെയ്യപ്പെടുന്നതിന് കാരണമാകാവുന്നതാണ്.
18. [illegible]
19. [illegible]

സെക്രട്ടറി
സുസി ജോൺസൺ
സെക്രട്ടറി
മണലൂർ പി.ഒ
PH:0487-2551141,9496044685

N.B :- ഈ ലൈസൻസ് അവസാനിക്കുന്ന തീയതിയ്ക്ക് 30 ദിവസം മുമ്പ് ലൈസൻസ് പുതുക്കുന്നതിനുള്ള അപേക്ഷ സമർപ്പിക്കേണ്ടതാണ്.

ANNEXURE D

DOC 452/I/2016

भारतीय गैर न्यायिक

भारत INDIA

रु. 500 FIVE HUNDRED RUPEES

पाँच सौ रुपये Rs. 500

INDIA NON JUDICIAL

കേരളം केरल KERALA F 0838

FORM H

(See Rule 43)

QUARRYING LEASE

Executant

Sri. CHARLES MATHEW

This deed of lease made on this the 29 IV day of June 2016 between the Governor of Kerala (hereinafter referred to as the "State Government" which

Sri. CHARLES MATHEW

Charles Mathew Pulattra Thiruthy P.O

M.M. VAHAB
Geologist
Dept:of Mining & Geology
District Office, Kottayam

ANTONY VARGHESE
Garachery Tax
Reg No. 2/2
Expiry Date: 21/01/2021

GOVT. OF KERALA

DEPARTMENT OF MINING & GEOLOGY

OF KERALA

C.M. SHAJAHAN
STAMP VENDOR

1/8/2016

DOC. 452/I/2016

presented in the office of the sub Registrar Kozhavand on the 1st day of July 2016 at 12.30 p.m with photograph and Thumb impression of the presentant affixed as per 32A and paid a fee of Rs. Twenty Five Thousand Four hundred and Fifty six by

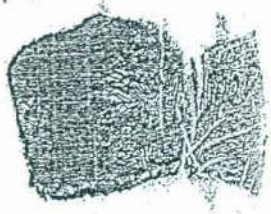
Charles Mathew

residing at Palathra house

1st July 2016 Sub Registrar Krishna Kumar V

Execution admitted by

On behalf of Palathra Constructions Pvt Ltd, director



Charles Mathew

residing at Palathra house,

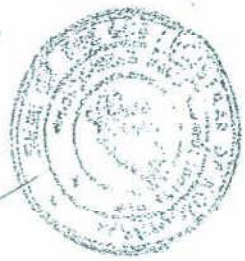
S/o P.P. Mathew, business, Thuratta

I am satisfied my self that as to the execution of this instrument by M.M. Vahab, Geologist, department of mining and Geology, district office, Kottayam whois exempted from personal appearance as per 88(1) Indian Registration Act.

Identified by

Shyaman e.m. Ship S/o Mohamad Document writer Chelt Corp House Kumaram P.O Kottayam

Registered as doc. 452 in book I of 2016. 10 sheets 1st sheet



expression shall, where the context so admits be deemed to include his successors and assigns) of the one part and **Sri. CHARLES MATHEW, director M/S Palathra Constructions pvt Ltd, Palathra building,ThuruthyP.O., Changanacherry, Kottayam, 686535 (Pancard No. AAGCP9659K) aged 45 years, bussiness, S/o P.P.Mathew, Residing at Palathra House in the Thuruthy Kara, Thuruthy P.O, Vazhappally east Village, Changanacherry Thaluk, Kottayam District. (Pancard No. AJPPM8303A)** (hereinafter called the "lessee" which expression shall where the context so admits, include his/heirs, executors, administrators, representatives and permitted assigns) of the other part.

Witnesseth that in consideration of the rents and royalties and lessee's covenants, hereinafter reserved and contained the State Government hereby give on lease to the lessee the land measuring 1.885¼ hectares described in the schedule hereunder and delineated on the plan hereto annexed and therein coloured red (hereinafter called the "said lands") to hold the same for a period of TEN (10) years commencing from the 29th day of June 2016 and ending on the 28th day of June 2026 the purposes of extracting minor mineral and subject to the terms and conditions contained in the Kerala Minor Mineral Concession Rules, 2015 (hereinafter referred to as "the Rules") and to the terms and conditions hereinafter appearing

1. The lessee shall have the right in and upon the said lands to extract Granite Building Stone (here in after called the said mineral/minerals) and to do all acts necessary for the extraction of the said mineral/minerals including the erection on the said lands, buildings and plant required for the purposes and also to take lead and carry away over the said lands and to dispose of the said minerals extracted as aforesaid.

2. The lessee shall during the subsistence of this lease have the liberty to work the said mineral/minerals and remove the same from the leasehold on permits issued by the State Government/competent authority or any other officer authorized by him in this regard. The permits shall be issued only on the basis of pre-paid royalty at the rates specified in Schedule I to these Rules. The royalty rates shall be subject to revision from time to time as the State Government may order.

Sri. CHARLES MATHEW

NOTARY
ANTONY VARGHESE
Changanacherry Taluk
Reg.No. 2/2006/KTM
Expiry Date: 21/01/2021
GOVT OF KERALA

M .M. VAHAB
Geologist
Dept:of Mining & Geology
District Office Kottayam

office staff, Meilakavumkal House
Chennakunnu. P.O, Chirackadavu.
1st July 2016 Sub Registrar Krishnakumar V.

Registered as document No. 452 in
book I of 2016 on pages from
137 to 145 in vol. 443 with two de

Including plans 10 sheets 2nd sheet
1st July 2016 Sub Registrar Krishnakumar V

Return to Agent C.M. Shyamsu
dt. 2.7.2016

This Document Contains
Sheets Sheet

District Registrar

THE DISTRICT REGISTRAR (AUD)
KOTTAYAM

3. The lessee shall pay to the State Government a yearly surface rent equal to the land revenue if any, assessable under the rules for the time being in force, or if the land be the property of Government or in reserve forest then equal to the land revenue plus cess, if any, per hectare of the land the surface whereof shall be occupied or used by the lessee for any of the purposes of this deed and so in proportion for any area less than one hectare. The said surface rent shall be paid by yearly payments; the first of such payments to be made on or before the last day of the first year of occupation provided always that no such rent shall be paid or demanded in respect of any roads or ways now in existence.

4. The lessee shall at all times during the currency of this lease keep correct and intelligible books of account showing accurately the quantity of the said minerals extracted and the weight and value of the said mineral sold or exported together with the names of the purchasers or consignees. The lessee shall also maintain a register of employees showing therein separately men, women employed daily and shall at reasonable times allow the competent authority appointed under the rules (hereinafter referred to as "competent authority") or the officer authorised by him to examine the said books of account and the register of employees and to take copies and extracts there from. The lessee shall submit reports in Forms F and G on the specified dates.

5. All sums found due under or by virtue of this deed from the lessee may be recovered from him jointly and severally from them and his properties movable and immovable under the provisions of the Revenue Recovery Act for the time being in force as though such sums are arrears of land revenue or in any other manner as the State Government may deem fit.

6. The lessee shall at the lessee's/lessees' own expense erect and at all times maintain and keep in repair boundary marks and pillars along the boundaries of the said lands according to the demarcation shown in the plan here to annexed.

Sri. CHARLES MATHEW

M .M. VAHAB
Geologist
Dept:of Mining & Geology
District Office, Kottayam

True photo copy
Attested
7/8/2010

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book I of 2016. 10 sheets 3rd sheet

SEAL OF THE SUB REGISTRAR

7. In cases where explosives are not used for quarrying the lessee shall not carry on or allowed to be carried on any quarrying operations at or to any points within a distance of 75 metres from any railway line except with the previous written permission of the Railway Administration concerned; and any bridge on National Highway or 50 metres from any reservoir, tanks, canals, rivers, bridges, public roads, other public works, residential buildings, the boundary walls of places of worship, burial grounds, burning ghats or any Government protected monuments or forest lands which do not conform to the category of wildlife forests except with the previous permission of the authorities concerned or State Government or competent authority or any other officer authorised by the State Government in this behalf.

In cases where explosives are used for quarrying, the lessee shall not carry on or allowed to be carried on any quarrying operations at or to any points within a distance of 100 metres from any railway line, bridge, reservoir, tanks, residential buildings, Government protected monuments, canals, rivers, public roads having vehicular traffic, other public works or the boundary walls of places of worship or 50 metres from any burial grounds or burning ghats or village roads or forest lands which do not conform to the category of wildlife forests.

The above said distances shall be measured in the case of a railway, reservoir or canal horizontally from outer edge of the cutting or outer edge of the bank, as the case may be and in the case of a building horizontally from the plinth thereof.

For the purposes of this clause the expression 'railway' and 'railway administration' shall have the same meaning as defined in sub-sections (4) and (6) of section 3 of Indian Railway Act, 1890 (IX of 1890).

8 The sides of open workings shall be sloped, stepped or secured by the lessee in such a manner as to prevent slope failure, when an open working is worked in steps, steps shall be of sufficient breadth in relation to their height to secure safety. In open workings trees liable to fall and all loose ground and material shall be removed by the lessee sufficiently far from the edge or otherwise made source in order to prevent danger to persons employed in the quarry.

Sri. CHARLES MATHEW

DEPARTMENT OF MINING & GEOLOGY GOVT. OF KERALA DISTRICT OFFICE KOTTAYAM

M .M. VAHAB
Geologist
Dept:of Mining & Geology
District Office, Kottayam

True photo Copy
Attested
11/9/2016

Registered as document in
book I of 2016-10 stands 4th sheet

9 If a working place is found to be unsafe all persons shall be withdrawn by the lessee immediately from the dangerous area and all access to such working place except for the purpose of removing the danger of saving life shall be prevented by securely fencing the full width of all entrances to the place.

10 The lessee shall at all reasonable times allow any officer authorised by the Central Government or by the State Government in that behalf to inspect the said lands and the buildings and plants erected thereon and the lessee shall assist such persons in conducting the inspection and afford them all information they may reasonably require, and shall conform to and observe all orders which the Central and State Governments as the result of such inspection or otherwise, may from time to time pass.

11 The lessee shall be responsible for implementing the provisions of the various labour laws applicable, from time to time, to the quarry.

12 The lessee shall not assign or underlet the said lands or any part thereof or the rights or privileges, therein hereby granted or any of them without the previous permission in writing of the State Government/competent authority.

13 Where the lease or any right, title or interest therein has been assigned, sublet or transferred as provided in rule 45 read with condition 12, then the person in whose favour such assignment, sublease or transfer has been made shall be responsible for implementing the provisions of the various labour laws applicable, from time to time, to the quarry.

14 The lease may be surrendered by the lessee at any time after 3 months notice in writing to the State Government/competent authority provided the lessee has paid all sums due on account of the lease: Provided that if the lessee elects to determine this lease before the expiry of the term of the lease, shall pay in addition to other dues a sum equal to the dead rent payable for the remaining part of the term of the lease deed.

Sri. CHARLES MATHEW

M .M. VAHAB
Geologist
Dept.of Mining & Geology
District Office, Kottayam

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book I of 2016. 10 sheets 5th sheet

15 If the lessee shall be desirous of taking a further lease of the said lands for a further term of 10 years he shall give three months' previous notice in writing of such desire to the State Government/competent authority and if the lessee have duly observed all the conditions of this lease, the State Government/competent authority may agree to renew the lease for such further term and on such terms and conditions as the State Government/ competent authority may determine which shall be in accordance with the provisions of these rules with a new registered deed.

16 If the lessee shall at any time during the said term use the said lands or any part thereof in any manner other than as authorised by this lease or fail to carry on quarrying operations continuously without sufficient cause of which the State Government/competent authority shall be the judge or shall commit a breach of any of the conditions of this lease it shall be lawful for the State Government/competent authority to cancel this lease and take possession of the said lands or the alternative to receive from the lessee such penalty not exceeding 25,000 for the breach as the State Government/competent authority may fix.

17 If at the expiration of three calendar months after the expiry of the lease or its sooner determination, there shall remain in or the said lands, any engines, machinery, plant buildings, structures and other works erections and conveniences the said minerals or other property which the lessee is entitled to remove from the said lands, the same shall, if not removed by the lessee within one calendar month after notice in writing requiring their removal be given to the lessee by the State Government/competent authority be deemed to become the property of the State Government in such manner as they may deem fit without liability to pay any compensation or to account to the lessee in respect thereof.

18 This lease subject to all rules and regulations which may from time to time be issued by the State Government regulating the working of the quarries and other matters affecting safety, health and convenience of the lessee's employees or of the public, whether under the Indian Mines Act or otherwise.

Sri. CHARLES MATHEW

M .M. VAHAB
Geologist
Dept:of Mining & Geology
District Office, Kottayam

19 The lessee shall without delay send to the District Collector and the competent authority or the officer authorised by him in this regard report of any accident causing loss of life or serious bodily injuries or seriously affecting or endangering life or property which may at any time occur at or in the said lands in the course of operations under this lease.

20 The lessee shall furnish such reports and returns relating to output, labourers employed and other matters as the State Government may prescribe.

21 The lessee shall make and pay such reasonable compensation as may be assessed by lawful authority in accordance with the law in force on the subject for all damage, injury or disturbance which may be done by him in exercise of the powers granted by this lease and shall indemnify and shall keep indemnified fully and completely the State Government against all claims which may be made by any person or persons in respect of any such damage, injury or disturbance and all costs and expenses in connection therewith.

22 Any condition prescribed in the Kerala Minor Mineral Concession Rules, 2015 but left out in this lease which may be found applicable to the lessee shall be treated as binding on the lessee.

23 In this case anticipated royalty for the mineral at rate of Rs. 24/- (Rupees Twenty Four Only) per tone for a period of one year is Rs.12,00,000 (Rupees Twelve Lakhs only)

24 Dead rent realized at the rate of Ist year-NIL IInd year-Rs. 300/-(Rupees Three Hundred Only) and IIIrd year onwards-Rs.1,200/-Rupees One Thousand and Two Hundred Only) per hectare subject to revision from time to time. Surface rent at the rate of Rs 200/- (Rupees Two Hundred only) per hectare for One year is Rs 377/- (Rupees Three Hundred and Seventy Seven only) security deposit is Rs 18,851/- Rupees Eighteen Thousand Eight Hundred and Fifty One only)

25. This Lease agreement is prepared and registered in original with two duplicate thereof.

Sri. CHARLES MATHEW

GOVT OF KERALA

M .M. VAHAB
Geologist
Dept:of Mining & Geology
District Office, Kottayam

The Schedule above referred to Description of Land

District	:	Kottayam
Sub District	:	kozhuvanal
Taluk	:	kottayam
Village/Amsom	:	Chengalam East
Panchayath	:	Akalakkunnam
Re Survey Block No.	:	48
Re SurveyNo. of the Area	:	403/1 403/2
Area in Hectares	:	1.88.51 hecteres
old SurveyNo	:	778/1B/5

Bounded by Survey No:

On the North by	:	Sy. Nos. 405/1
On the East by	:	Sy Nos.403/1-1,403/2-2,403/2-3
On the South by	:	Sy. Nos. 403/2pt
On the West by	:	Sy Nos. 404

Sri. CHARLES MATHEW

M .M. VAHAB
Geologist
Dept:of Mining & Geology
District Office, Kottayam

ANTONY VARGHESE
Changanacherry Taluk
Reg No 2/2005/KTM
Expiry Date: 21/01/2021
GOVT. OF K

In witness whereof the parties hereto have set their hands here unto o the day and year first above written.

Signed by **M.M.VAHAB**
GEOLOGIST
DEPT.OF MINING AND GEOLOGY
DISTRICT OFFICE KOTTAYAM

for and on behalf of the Governor of Kerala.

DEPARTMENT OF MINING & GEOLOGY GOVT. OF KERALA DISTRICT OFFICE KOTTAYAM

M .M. VAHAB
Geologist
Dept:of Mining & Geo
District Office, Kotta

In the presence of

(1) SHAMEER-S
clerk.
District office mining and Geology
Kottayam.

(2) P. Satheesh Chandran
Mineral Revenue Inspector
Mining & Geology Dist office
Kottayam

Signed by **Sri. CHARLES MATHEW**
Palathra House,
Thuruthy P.O ,
Changanacherry
Kottayam

For and on behalf of the Lessee

Witness

1) M.D. REJIKUMAR
S/o K.S. DEVARAJAN
MAILARAVUMKAL
CHENNAKUNNU.P.O
KOTTAYAM.

M .M. VAHAB
Geologist
Dept:of Mining & Geology
District Office, Kottayam

(2) Shayahan. C M
S/o Muhammad
Chettiss Cottu House
Kummanam P.O Kottayam

Prepared by C.A.Muhammed L.No. K.D.A.82.

Due photo C.
Attested
1/8/20

This Deed is computer printed.Corrections **Nil.**

Sri. CHARLES MATHEW

NOTARY
ANTONY VARGHESE
Changanacherry Taluk
Regn. No. 2 ...
Expiry Date: 21/01/2021
GOVT. OF KERALA

Original and Duplicate. Corrections if.

Compared by } Reader : Jaimy Mol P Mathews
Examiner : Jasmin VM LDC Jasmin

1st July 2016 Kozhuvanal Sub Registrar

Krishnakumar. V.

NOTARY
ANTONY VARGHESE
Changanacherry Taluk
Reg.No. 2120/2016
Expiry Date: 21/01/2021

Registered as doc. 451 of
book I of 2016. 10 sheets typed sheet

SPECIAL ADHESIVE

ANNEXURE - E Geology Moving permit

FORM R

(See rule 49)

The Kerala Minor Mineral Concession Rules, 2015

GOVERNMENT OF KERALA DEPARTMENT
OF MINING AND GEOLOGY DISTRICT
OFFICE, KOTTAYAM

MOVEMENT PERMIT

No.GBS/QL/02/2017-18/PC/1606/DOY/ML/2017	Date: 29.06.2017

"M/s. PALATHRA CONSTRUCTIONS Pvt. (Ltd.), PALATHRA BUILDING, THURUTHY.P.O., CHANGANACHERRY, KOTTAYAM who is holding Quarrying Lease No. 222/2016-17/1843/M3/2016 dated 24.06.2016 under the Kerala Minor Mineral Concession Rules, 2015 is hereby permitted to transport **Granite Building Stone** from quarry situated at Nayiplavu in **Survey No. 403/1, 403/2** of **Chengalam East** Village of **Kottayam** Taluk of **Kottayam** District for the period from **4.07.2017 to 4.07.2018. Every consignment of mineral permitted to be moved under this movement permit shall be moved only with valid minerals transit pass issued under the Kerala Minerals (Prevention of illegal mining, storage and transportation) Rules 2015.**

1. Other particulars are as detailed below: Particulars of mineral concession (concession number/date/ allowed quantity/validity etc.):	222/2016-17/1843/M3/2016 dated 24.06.2016
2. Particulars of pervious movement permits which stands cancelled:	Issued 2nd time
3. Balance quantity of mineral brought forward from previous movement permit:	50000 MT
4. Quantity of mineral permitted to be moved under this movement permit	: QL

5. *Registration number with date allotted to the value addition unit (if applicable):
6. *Location name, survey number, village, taluk, district of the value addition unit to which the mineral is intended to be moved (if applicable): N.A.
7. Special conditions to be imposed (if any):
8. Particulars of remittance of rent/royalty/taxes as applicable:

Subject the renewal of D & O license

(Office Seal)

GEOLOGIST

P.N. BIJUMON
Asst Geologist
Dept. of Mining & Geology
Dist Office, Kottayam - 2

DEPARTMENT OF MINING & GEOLOGY * GOVT. OF KERALA * DISTRICT OFFICE KOTTAYAM

ANNEXURE - E Geology Moving permit

FORM R

(See rule 49)

The Kerala Minor Mineral Concession Rules, 2015

GOVERNMENT OF KERALA DEPARTMENT
OF MINING AND GEOLOGY DISTRICT
OFFICE, KOTTAYAM

MOVEMENT PERMIT

No.GBS/QL/02/2017-18/PC/1606/DOY/ML/2017	Date: 29.06.2017

"M/s. PALATHRA CONSTRUCTIONS Pvt. (Ltd.), PALATHRA BUILDING, THURUTHY.P.O., CHANGANACHERRY, KOTTAYAM who is holding Quarrying Lease No. 222/2016-17/1843/M3/2016 dated 24.06.2016 under the Kerala Minor Mineral Concession Rules, 2015 is hereby permitted to transport **Granite Building Stone** fromquarry situated at Nayiplavu in **Survey No. 403/1, 403/2 of Chengalam East** Village of **Kottayam** Taluk of **Kottayam** District for the period from **4.07.2017 to 4.07.2018.** **Every consignment of mineral permitted to be moved under this movement permit shall be moved only with valid minerals transit pass issued under the Kerala Minerals (Prevention of illegal mining, storage and transportation) Rules 2015.**

1. Other particulars are as detailed below:
   Particulars of mineral concession (concession number/date/ allowed quantity/validity etc.): 222/2016-17/1843/M3/2016 dated 24.06.2016

2. Particulars of pervious movement permits which stands cancelled: Issued 2nd time

3. Balance quantity of mineral brought forward from previous movement permit: 50000 MT

4. Quantity of mineral permitted to be moved under this movement permit : QL

5. *Registration number with date allotted to the value addition unit (if applicable):

6. *Location name, survey number, village, taluk, district of the value addition unit to which the mineral is intended to be moved (if applicable): N.A.

7. Special conditions to be imposed (if any):

8. Particulars of remittance of rent/royalty/taxes as applicable:

Subject the renewal of D & O license

(Office Seal)

DEPARTMENT OF MINING & GEOLOGY * DISTRICT OFFICE KOTTAYAM * GOVT. OF KERALA

GEOLOGIST

P.N. BIJUMON
Asst Geologist
Dept. of Mining & Geology
Dist Office, Kottayam - 2

DEPARTMENT OF MINING & GEOLOGY * DISTRICT OFFICE KOTTAYAM * GOVT. OF KERALA

No. 1483/M3/2016

Directorate of Mining & Geology
Kesavadasapuram, Pattom P.O.
Thiruvananthapuram-4
Tel: 0471-2447429
Fax: 0471-2447429
E.mail: director.dir.dmg @ kerala.gov.in
Web: www.dmg.kerala.gov.in
Dated : 24.06.2016

From

The Director of Mining & Geology

To

M/s.Palathra Constructions (Pvt) Limited, Palathra Building,
Thuruthy P.O, Changanacherry, Kottayam- 686 535

Sir,

Sub : Mines and Minerals - Minor Minerals- Granite (Building Stone) - Preparation and execution of quarrying lease deed – reg –

Ref : 1. Pro.Order No. 222/2016-17/1843/M3/2016 dtd. 24.6.2016
2. KMMC Rules 2015
3.Pro.No. 835/EC4/2713/2015/SEIAA dtd 3.2.2016 of the Member Secretary, SEIAA & Additional Chief Secretary, Environment & Forest Department, Government of Kerala

Please refer to the Proceedings Order cited above wherein a quarrying lease for Granite (Building Stone) was granted to M/s.Palathra Constructions (Pvt) Limited, Palathra Building, Thuruthy P.O, Changanacherry, Kottayam- 686 535. I request you to prepare three copies of the quarrying lease deed original on plain paper and two copies of the same in stamped paper worth Rs. 200/- and produce the same before the Geologist, District Office, Kottayam for scrutiny and execution . The date of execution will be entered up by the Geologist at the time of execution. After scrutiny of the quarrying lease deed, the Geologist will inform you the date of execution convenient to him. After execution as per the request of the Geologist stamp duty will be fixed by the District Registrar, Kottayam and he will receive the stamp duty and a certificate of remittance of stamp duty will be entered in the lease deed / chalan for Rs.18,851/- (Rupees eighteen thousand eight hundred and fifty one only) bein the security deposit is enclosed herewith duly countersigned. Please affix your signature at th appropriate places before remittance of money in the treasury. The original treasury receipt chalan may also be produced along with the typed copies of the lease deed and the draft for 'H' which is enclosed herewith, before the Geologist, District Office, Kottayamat the time execution.

True copy attested

18/5/17
ANU. M.R.
Assistant Engineer
P.W.D. Road Section
Erattupetta

True copy

Assistant Engineer
P.W.D. Roads Section
Vazhoor
29/06/16

PROCEEDINGS OF THE DIRECTOR OF MINING & GEOLOGY

Sub : Mines & Minerals - Minor Minerals – Granite(Building Stone) – Quarrying lease to **M/s.Palathra Constructions (Pvt) Limited, Palathra Building, Thuruthy P.O, Changanacherry, Kottayam- 686 535** sanction – orders issued

Ref : 1. Application dated 1.2.2016 from **M/s.Palathra Constructions (Pvt) Limited, Palathra Building, Thuruthy P.O, Changanacherry, Kottayam- 686 535**
2. Letter No.**2608/DOY/ML/2015 dt.22.2.16,28.3.16,13.4.16,2.6.16 &22.6.16** from the Geologist, District Office, **Kottayam**
3. Kerala Minor Mineral Concession Rules,2015
4. Pro.Order No. 835/EC4/2713/2015/SEIAA dtd 3.2.2016 of the Member Secretary, SEIAA & Additional Chief Secretary, Environment & Forest Department, Government of Kerala

No.222/2016-17/1843/M3/2016 Dtd., Thiruvananthapuram, 24.06.2016

ORDER

A quarrying lease is granted to **M/s.Palathra Constructions (Pvt) Limited, Palathra Building, Thuruthy P.O, Changanacherry, Kottayam- 686 535** to quarry Granite (Building Stone) over an area of **1.8851** hectares of **private** land comprised in Survey Nos **403/1,403/2** of **Chengalam East** Village,**Kottayam** Taluk, **Kottayam** District for **10(ten)** years from the date of execution of the quarrying lease deed under the Kerala Minor Mineral Concession Rules, 2015 and as per the survey map issued by the Tahsildar, **Kottayam** and the approved Mining Plan and environmental clearance submitted by the applicant subject to the under mentioned condition.

1. Royalty is payable to Government as per Rule 32 of the Kerala Mineral Concession Rules, 2015 in respect of minor mineral quarried and moved out of the quarry subject to revision from time to time on the basis of amendments to the schedule I of the said Rules.
2. Dead rent is realizable under of the said rules subject to revision from time to time on the basis of amendments to the schedule II of the said rules.
3. Surface rent realizable under of the said rules will be equal to the land revenue assessed by the Revenue Department subject to revision from time to time on the basis of the land revenue.
4. The lessee shall execute a quarrying lease deed within a period of six months from the date of this order in form 'H' as per Rule 43 of the Kerala Minor Mineral Concession Rules, 2015.
5. The lessee shall also deposit an amount of Rs. 10,000/- (Rupees Ten Thousand only) as security deposit for the observance of the terms and conditions of the lease before the deed is executed as per rule 42 of the said rules. The lessee shall commence quarrying operation only after the deed is executed and registered.
6. The quarrying area shall be demarcated and boundary stones fixed at the lessee s expenses before execution of the quarrying lease deed.
7. The lessee shall not win and dispose of any type of dimension and decorative stones from the area over which the quarrying lease has been sanctioned on the strength of this order
8. The production of Granite (Building Stone) from the area covered under this grant shall be subject to the quantity specified in the Mining Plan submitted by the lessee (50,000 metric tonnes per year)

True copy attested
ANU M S
Assistant Engineer
P.W.D. Road Section
Erattupetta

OFFICE OF THE ASSISTANT ENGINEER ERATTUPETTA

9 (i) The lessee shall erect a notice board in Malayalam at a prominent place with a minimum size of 1 metre X 1.5 metres in a metallic board near to the entrance of the quarry to the effect that it shall contain the name and address of the permit holder, mineral concession number and date, the mineral to extracted, permit number and date and its date of expiry, quantity of extraction permitted (if applicable), area of extraction permitted, explosives used (if any), etc.

(ii) The lessee shall erect a warning board with danger sign regarding operation of the quarry, 100 metres away by the side of the road leading to it.

10. The lessee should provide retention wall/barricade/fencing compound wall surrounding the quarry before the commencement of the quarrying operation for preventing accidents by falling of human being animals, vehicles and material into the quarry. The lessee should take effective preventive measures for the safety of labourers as well as the general public.

11. The lessee should leave a distance of 7.5m from the adjacent boundary lands including government puramboke land while carrying out quarrying operations.

12. The lessee should not assign, sublet or transfer his lease or any right or interest therein to any person without previous permission of the Director of Mining & Geology.

13. The lessee shall pay tax related to Revenue Department, if any, as directed by them and the details should be furnished to the Geologist periodically.

14. The lessee shall operate the quarry in accordance with the condition stipulated in the environmental clearance and mining plan submitted by them.

15. The lessee shall obtain all other statutory licences/clearances/No Objection Certificates from other authorities concerned including Explosive licence, consent from Pollution Control Board and D & O licence from the Local Self Government Department concerned.

16. The lessee shall produce Progressive quarry Closure Plan before completion of five years of operation of the quarry.

17. The lessee shall produce a financial guarantee of Rs. **1,00,000/- (One lakh only)** as stipulated in rule 62 of the KMMC Rules, 2015 before execution of lease deed.

18. The lessee shall pay ten percent of the amount of royalty/consolidated royalty, as the case may be paid by him, being the quarry safety fund in addition to the royalty/consolidated royalty, as per rule 63 of the KMMC Rules, 2015.

19. The lessee shall carryout mining operations as per the approved mining plan.

20. **The lessee shall renew Environmental Clearance on or before 02.02.2021 for the operation of the quarry of the remaining period.**

The terms and conditions stated in this order will be subjected to such further modifications as may be made by the State Government from time to time.

Sd/-
T.K Ramakrishnan
DIRECTOR OF MINING & GEOLOGY(i/c)

To: **M/s.Palathra Constructions (Pvt) Limited, Palathra Building, Thuruthy P.O, Changanacherry, Kottayam- 686 535**

Copy to :

1. The Deputy Director General, Directorate General of Mines Safety, Southern Zone, Bangaluru- 560029
2. The District Collector, Kottayam
3. The Geologist, District Office Kottayam
4. The Tahsildar, Kottayam
5. Stock File (2) File Copy

(By Order)

24/10/2016

SENIOR SUPERINTENDENT

Ls/24 6

True copy attested

18/5/17

ANU. M.R.
Assistant Engineer

OFFICE OF THE ASSISTANT ENGINEER
Date.....

DEPARTMENT OF MINING & GEOLOGY

ANNEXURE NO.10

COPY OF "*CONSENT TO ESTABLISH*"

FILE NO. :7787721
Date of issue :30/05/2018

KERALA STATE POLLUTION CONTROL BOARD

CONSENT TO ESTABLISH

ISSUED UNDER

Section 25 of Water (Prevention & Control of Pollution) Act, 1974
Section 21 of the Air (Prevention & Control of Pollution) Act, 1981

and

Environment (Protection) Act, 1986

As per Application No. :7787721
Dated:12-05-2018

TO

M/s PALATHRA CONSTRUCTIONS (P)LTD
Palathra Constructions (P)Ltd
Palathra Building
Thuruthy P.O
Changanacherry

Consent No. :R16KOT2863652

Valid Upto :11/05/2023

1. GENERAL

1.1. This integrated consent is granted subject to the power of the Board to withdraw consent, review and make variation in or revoke all or any of the conditions as the Board deems fit.

1	**VALIDITY**	11/05/2023
2	Name and Address of the establishment	PALATHRA CONSTRUCTIONS (P)LTD PALATHRA BUILDING THURUTHY P.O CHANGANACHERRY 686585
3	Communication	Telephone :0-0 Fax :0-9447000164 E-mail:palathraconstructionspvtltd@gmail.com
4	Occupier Details	Charles Mathew (Director) Palathra Constructions (P)Ltd Palathra Building Thuruthy P.O Changanacherry
5	Local Body	Akalakunnam
6	Survey Number	401/5-2,403/1,403/1-1,403/2, 403/2-2-1,403/2-3, 403/2-2,404/1,404/2, 404/2-6,405/1,406/5
7	Village	Chengalam East
8	Taluk	KOTTAYAM
9	District	Kottayam
10	Capital Investment(Rs in Lakhs)	Rs. 150 lakh
11	Scale	Small
12	Category	RED
13	Annual fee(Rs) Total Fee remitted(Rs)	RS. 27500/- Rs. 137500/-
14	RAW MATERIAL	PRODUCTS
	Granite Aggregates @250 Metric Tonnes	Granite Rubbles @250 Metric Tonnes
15	Total Power Required (HP)	

2. CONDITIONS AS PER
The Water(Prevention and Control of Pollution)Act, 1974

2.1 In case of generation of trade effluent from the industry, effluent treatment system consisting of treatment units having adequate capacity established as per the proposal submitted along with the application shall be made functional before commissioning. Additional facilities required, if any, to achieve the standards laid down by the Board u/s 17(1) (g) of the Water Act shall also be made along with.

2.2 Water Consumption : 500 litre/day

2.3 Effluent Generation :

2.4 The characteristics of effluent after treatment shall confirm to the following tolerance limits:

SI.NO.	Characteristics	Unit	Tolerance Limit	
			Sewage	Trade Effluent

2.5 Mode of disposal of treated effluent :

3. CONDITIONS AS PER
The Air(Prevention and Control of Pollution)Act, 1981

3.1 Adequate air pollution control measures shall be provided before commissioning of the industry. Additional facilities required, if any, to achieve the standards laid down by the Board shall also be made along with.

Stack No.	Sources of Emission	Emission Rate(Nm3/Hr)	Stack Height above		Control Equipment
			Ground Level	Roof Level	

3.2 Emission characteristics shall not exceed the following:

SI.No.	Parameter	Limiting Standards (mg/Nm3)

4. CONDITIONS AS PER
The Environment (Protection) Act, 1986.

4.1 The construction activities shall be carried out strictly in compliance with the provisions of the Noise Pollution (Regulation and Control)Rules 2000.

4.2 Used lead acid batteries shall be disposed of as per the Batteries (Management and Handling) Rules, 2001

4.3 Hazardous waste generated, if any, shall be handled as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

4.4 e-waste shall be disposed off safely as per the E-Waste (Management) Rules, 2016.

5. SPECIFIC CONDITIONS

5.1. This consent is granted subject to the power of the Board to review and make variation in all or any of the conditions and based on the affidavits submitted by the occupier in Rs. 100/- stamp paper dated 17.03.2018.

5.2. This consent is granted subject to the power of the Board to review and make variation in all or any of the conditions.

5.3. This consent, unless withdrawn earlier and subject to condition No.5.1. shall be valid for three years from the date of issue. At the end of the validity period if the quarrying activity is yet to be started, the applicant shall apply afresh for consent to establish.

5.4. This consent, unless withdrawn earlier is valid up to 11.05.2023. Also this consent will be valid only for a period during the period when all other statutory or necessary clearances from other concerned authorities are valid. The consent issued from the Board is only with respect to powers vested under the Water Act1974, Air Act 1981 and Rules there under. The operation of the quarry shall be commenced only after obtaining clearances from all concerned authorities. In case the operation of the quarry is to be continued thereafter application for the renewal of the Consent is to be made in the prescribed form three months before the date of expiry of the Consent.

5.5. The consent issued is subject to conditions specified in the clearances issued by the Mining & Geology Department and Explosive Department as per the provisions of the relevant statutes.

5.6. The applicant shall comply with the instructions that the Board may issue from time to time regarding prevention and control of air & noise pollution.

5.7. The following control measures shall be provided and maintained properly while the quarry is in operation.

a) There shall be a minimum distance of 100m from the quarrying point to the nearest residence.

b) Blasting with electric detonators shall be limited to a maximum of 5 nos at a time.

c) Blasting and quarrying shall be done without causing any nuisance or damage to occupants of adjoining or neighbouring land or building or causing damage to health, life or properly.

d) Proper fencing of the quarry area shall be done to avoid hazards and accidents.

5.8. The sound level (Leg) measured 1 m outside the boundary of the premises shall not exceed the standard applicable to the adjoining area.

5.9. Suspended particulate matter (dust) level at boundary shall be 200g/m3 max and respirable particulate matter shall be 100g/m3, max.

5.10. The date of commissioning shall be intimated, at least one month in advance, to the District Office of the Board.

5.11. Water sprinklers shall be provided to suppress spreading of dust outside the premises. Suspended particulate matter at the boundary of the premises shall not exceed 200 microgram per cubic metre.

5.12. Products shall be transported with proper cover or after wetting to prevent spreading of dust during transportation.

5.13. There shall be no fugitive emission from the premises.

5.14. 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.

5.15. The applicant shall provide necessary arrangement for rainwater harvesting.

5.16. Quarrying shall be conducted only within the area earmarked in the approved site plan of the Village Officer.

5.17. The operations of the quarry shall be commenced only after obtaining the Environmental Clearance and Consent to Operate of the Board.

5.18. The location of the proposed quarrying area shall be as shown in the drawing attached.

JOSEMON J

Digitally signed by JOSEMON J
Date: 2018.05.30 11:06:37 +05'30'

DATE :30/05/2018

SIGNATURE & SEAL OF ISSUING AUTHORITY

ENVIRONMENTAL ENGINEER

To

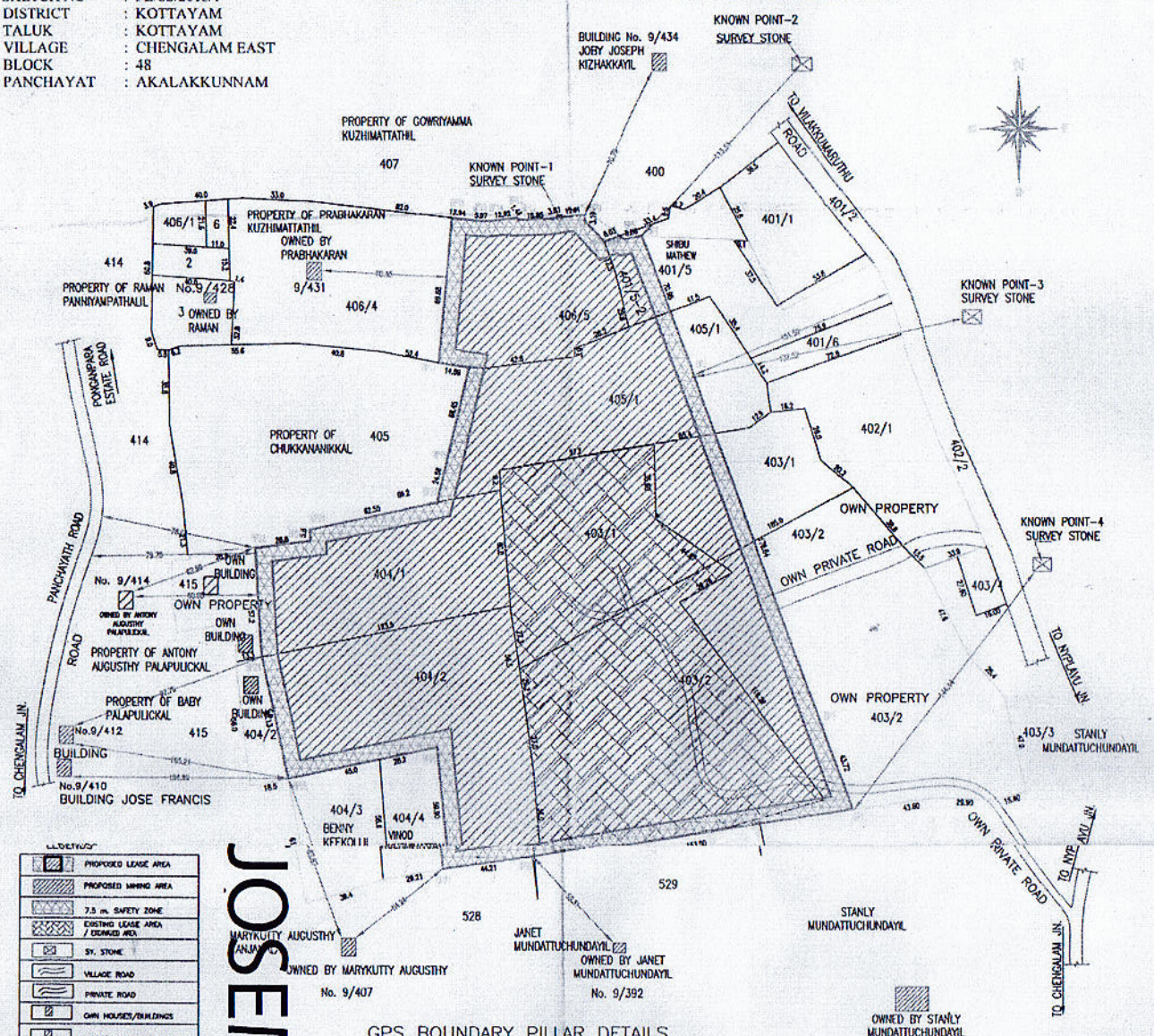
Charles Mathew (Director)
Palathra Constructions (P)Ltd
Palathra Building
Thuruthy P.O
Changanacherry

1. This digitally signed document is legally valid as per the Information Technology Act 2000

2. For verifying this document please go to krocmms.nic.in and search using date of issue/name of the unit/Application Number in "Consent Granted Applications" link in the home page of the Board's Online Consent Management and Monitoring System.

SURVEY MAP - M/s PALATHARA CONSTRUCTIONS PVT. LTD.

SKETCH NO : PL/SS/2018/1
DISTRICT : KOTTAYAM
TALUK : KOTTAYAM
VILLAGE : CHENGALAM EAST
BLOCK : 48
PANCHAYAT : AKALAKKUNNAM



LEGEND

- PROPOSED LEASE AREA
- PROPOSED MINING AREA
- 7.5 m. SAFETY ZONE
- EXISTING LEASE AREA / DEMARCATED AREA
- SY. STONE
- VILLAGE ROAD
- PRIVATE ROAD
- OWN HOUSES/BUILDINGS
- OTHER'S HOUSES/BUILDINGS
- OVERALL PLOT BOUNDARY
- SUB DIVISION SURVEY BOUNDARY

EXISTING LEASE AREA

Proceeding Lease Order No. 222/2016-17/1843/M3/2016 Dated 24-06-2016

Sr No	Sy No.	Area (ha.)
1	403/1	0.6841
2	403/2	1.2010
TOTAL		1.8851

GPS BOUNDARY PILLAR DETAILS

Point No.	Latitude (N)	Longitude (E)	Point No.	Latitude (N)	Longitude (E)
BP1	09°37'37.86"	76°42'46.13"	BP15	09°37'47.10"	76°42'40.27"
BP2	09°37'39.20"	76°42'45.64"	BP16	09°37'47.15"	76°42'39.85"
BP3	09°37'44.67"	76°42'43.85"	BP17	09°37'44.89"	76°42'39.61"
BP4	09°37'46.65"	76°42'42.87"	BP18	09°37'44.82"	76°42'40.08"
BP5	09°37'46.80"	76°42'42.56"	BP19	09°37'43.49"	76°42'39.76"
BP6	09°37'46.85"	76°42'42.51"	BP20	09°37'42.72"	76°42'39.56"
BP7	09°37'46.76"	76°42'42.27"	BP21	09°37'42.30"	76°42'37.55"
BP8	09°37'47.06"	76°42'41.97"	BP22	09°37'42.12"	76°42'37.56"
BP9	09°37'47.19"	76°42'41.97"	BP23	09°37'42.01"	76°42'36.71"
BP10	09°37'47.14"	76°42'41.55"	BP24	09°37'40.29"	76°42'36.80"
BP11	09°37'47.12"	76°42'41.43"	BP25	09°37'38.37"	76°42'37.19"
BP12	09°37'47.11"	76°42'40.91"	BP26	09°37'39.24"	76°42'39.57"
BP13	09°37'47.15"	76°42'40.88"	BP27	09°37'38.91"	76°42'39.71"
BP14	09°37'47.09"	76°42'40.48"	BP28	09°37'37.16"	76°42'41.16"

Sr. No.	Sy. No in Sketch	Survey No with sub division	Area	Total area in possession	Buffer area (ha.)	Mineable area (ha.)	Applied area (ha.)	Balance area (ha.)	Document no.	Name of land owner
1.	401/5-2	401/5-2	0.2000	0.2000	0.0382	0.0399	0.0781	0.1264	618	Palathra Constructions Pvt. Ltd.
2.	403/1	403/1 403/1-1	71.41 39.19	0.8663	0.0421	0.8222	0.8643	0.2417	562, 77	Palathra Constructions Pvt. Ltd.
3.	403/2	403/2 403/2-2-1 403/2-3 403/2-2	1.3582 0.1081 0.6500 0.5697	0.6864	0.2109	1.3655	1.5764	1.1096	562, 77	Palathra Constructions Pvt. Ltd.
4.	404/1	404/1	0.7450	0.7450	0.1101	0.5597	0.6698	0.0752	188	Palathra Telecom Infrastructure Pvt. Ltd.
5.	404/2	404/2 404/2-6	0.5504 0.5134	0.6638	0.1722	0.8252	0.9984	0.0654	161, 162	Palathra Telecom Infrastructure Pvt. Ltd.
6.	405/1	405/1	0.8095	0.8095	0.0951	0.5536	0.6487	0.1608	619	Palathra Constructions Pvt. Ltd.
7.	406/5	406/5	0.6000	0.6000	0.1200	0.4253	0.5453	0.0547	211	Charles Mathew
	TOTAL			7.2141	0.7886	4.5914	5.3810	1.8338		

Village Officer Chengalam East

TAHSILDAR, KOTTAYAM

JOSEMON J
+05'30'
Digitally signed by JOSEMON J
Date: 2018.05.30 11:07:19

This sketch submitted to Mining & Geology Dept.

All Dimensions Are In Metre
Scale 1:2000 (A3)

ANNEXURE NO.11

COPY OF "*CONSENT TO OPERATE*"

KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/KTM/QR/179/2010
Date of issue :17/05/2016

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : PCB/KTM/ICO/R4/3395/2016 Valid upto:31.12.2018

Ref : 1.Consent No: PCB/KTM/ICO/R2/1790/2014 dated: 07.02.2014
2.Consent variation order dated: 07.01.2015

The ' Integrated Consent to Operate' issued as per reference above to M/s Sri. Charles Mathew (Director),Palathra Constructions (P)Ltd,Thuruthy P.O, Changanacherry is hereby renewed up to 31/12/2018 and issued to M/s Sri. Charles Mathew (Director), Palathra Constructions (P)Ltd,Palathra Building, Thuruthy P.O, Changanacherry The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

I. GENERAL

S.No.	Items	Description
1	Validity	31.12.2018
2	Capital Investment	80 Lakhs
3	Annual fee	Rs.15000/-
4	Fee remitted	Rs.48750/-
5	Extent of Land	2.07.66 Hectare
6	Products	Building Stone-150 MT/day

II. Stack Details

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

KERALA STATE POLLUTION CONTROL BOARD KOTTAYAM

III. CONDITIONS

1. This consent is granted on the basis of the affidavit submitted by the applicant and any violation/ noncompliance will lead to withdrawal of the consent and stringent action.
2. This consent is granted based on the Circular No.PCB/HO/TAC/GoM/953/2014 dated 15.10.2015 of the Chairman, Pollution Control Board and subject to the power of the Board to review and make variations in

all or any of the conditions as per the section 21(6) of the Act.

3. For renewal of the consent in case of continuance of discharge/operation of the industry, application in the prescribed form shall be submitted through the web portal of the Board for Online Consent Management & Monitoring system on or before 30.09.2018. Late application will be accepted with a fine or late fee as applicable.

4. The PM10 in ambient air at the boundary shall not exceed 100µg/m3.

5. The PM2.5 in ambient air at the boundary shall not exceed 60µg/m3.

6. The sound level (Leq) at 1m outside the boundary of the site should not exceed the ambient noise standard applicable to the adjoining area.

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

DATE :17/05/2016

KERALA STATE POLLUTION CONTROL BOARD KOTTAYAM

SIGNATURE & SEAL OF ISSUING AUTHORITY

K. G SAJEEV
Environmental Engineer
Kerala State Pollution Control Board
District Office, Kottayam

OFFICE SE

To
M/s.Palathra Constructions (P)Ltd,
Palathra Building,
Thuruthy P.O,
Changanacherry.

DEPARTMENT OF MINING & GEOLOGY DISTRICT OFFICE KOTTAYAM GOVT. OF KERALA

M .M. VAHAB
Geologist
Dept:of Mining & Geology
District Office, Kottayam

ANNEXURE NO.12

PRODUCTION DETAILS DULY AUTHENTICATED BY THE DEPARTMENT OF MINING AND GEOLOGY, GOVT. OF KERALA

Palathra constructions Private Limited

PALATHRA BUILDINGS,THURUTHY PO
CHANGANACHERRY,KOTTAYAM
KERALA-686535

Office : 0481-2322150
Fax : 0481-2322344
Shibu Mathew : +91 90484 90000
Sony Mathew : +91 94475 32900
Charles Mathew : +91 9447000164

Date:

QL No.222/2016-17/1843/M3/2016 Dated.24/06/2016

Production from 12/08/2016 to 31/03/2017	Production MT
August 2016-17	2525
September 2016-17	1590
October 2016-17	1910
November 2016-17	1400
December 2016-17	1405
January 2017-18	1165
February 2017-18	1200
March 2017-18	1523
Total	**12718**

Production from 01/04/2017 to 31/03/2018	Production MT
April 2017-18	2410
May 2017-18	1930
June 2017-18	3675
July 2017-18	2290
Auguest 2017-18	4580
September 2017-18	3490
October 2017-18	5040
November 2017-18	3709
December 2017-18	3829
January 2017-18	6528
February 2017-18	6700
March 2017-18	4190
Total	**48371**

For PALATHRA CONSTRUCTIONS (P) LTD.

DIRECTOR

DEPARTMENT OF MINING AND GEOLOGY * KOTTAYAM PIN-686 002 * DISTRICT OFFICE KOTTAYAM

ASSISTANT GEOLOGIST
DISTRICT OFFICE
DEPT. OF MINING AND GEOLOGY
COLLECTORATE P.O. KOTTAYAM-686 002