

# HANNA ROCK PRODUCTS (Pvt.) LIMITED

Meenkunnam, South Marady, Muvattupuzha Taluk, Ernakulam-Kerala

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## ENVIRONMENT MANAGEMENT PLAN – COMPLIANCE REPORT (Ref. Environmental Clearance No. 42/SEIAA/KL/7159 dated 15.03.2013)

### FOR THE PERIOD FROM 1<sup>st</sup> OCTOBER 2014 TO 31<sup>st</sup> MARCH 2015

#### I. Specific Conditions:

1. Advancement of active quarry face should be a top to bottom approach.

**Mine/Quarry workings are always made from top to bottom as specified.**

2. Benches should not be oriented in straight line but should follow the topography as agreed in the proposal.

**The benches are in oval shape following the natural topography of the area.**

#### II. General Conditions:

- (i) Rain water harvesting to collect and utilize the entire water falling in land should be provided.

**The drainage system is made to divert the rain water to the disused quarry at the bottom level and has a large capacity of storage. The water thus collected is used for sprinkling on haulage road for dust suppression and also for the raising of plantation.**

- (ii) Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.

**Environment Monitoring Cell is constituted and working as per the requirement.**

- (iii) Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, inclusive of approach road and internal roads.

**The saplings shall be planted during the monsoon i.e., during July-September of every year. Last season around 500 sapplings were planted.**

- (iv) The project shall incorporate devices for solar energy generation and utilization wherever possible.

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**The working of the quarry is restricted to day light workings. However, we will arrange to utilize the solar energy devices in the office for general purpose.**

- (v) Sprinklers shall be installed and used in the project site to contain dust emissions.

**A water tanker fitted with sprinklers is utilized in the quarry area for the suppression of dust. The haulage road is provided with stationary sprinklers for continuous water spray on road for avoiding air borne dust.**

- (vi) The eco-restoration plan submitted with the proposal should be fully implemented.

**The eco-restoration plan in terms of Land, Water, Air and Biological Environment are being implemented in phased manner as envisaged in the report.**

- (vii) Corporate Social Responsibility agreed upon by the proponent should be implemented.

**The details of such spending (CSR) from 1<sup>st</sup> October 2014 to 31<sup>st</sup> March 2015 is enclosed for as Annexure-1.**

- (viii) Barbed metal wire fencing around the mining area shall be provided with a height of no less than 5 ft. so that falling of animals /human belongings /dumping of garbage etc. does not happen.

**The total mining area has been covered by barbed wire fencing to avoid falling of animals etc.**

- (ix) Warning alarms indicating the time of blasting (to be done with specific timings) has to be arranged as per stipulations of Explosive Department.

**Blasting timing has been fixed for the quarry and displayed on boards fixed at the entry of the quarry. The warning alarms are provided and also the blasters assistants will move in all four directions before the blasting to prevent and inadvertent entry of animals/human being in the blasting zone.**

- (x) Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.

**Access road to the quarry where the vehicles collect the finished products are concreted and maintained well to avoid the dust generation. The haulage roads within the quarry are sprinkled with water to avoid dust generation during the machinery and vehicle movement inside the quarry.**

- (xi) Overburden materials should be managed within the site and the old quarries, if any, should be reclaimed and restored.

**Overburden and waste material generated out of quarry is being utilized for backfilling of the adjoining old quarry for restoration.**

- (xii) Height of the bench shall not exceed 5 m and width should not be less than 5 m

**Height of the bench is always kept below 5 mtrs. and the width of the bench is kept at 15 mtrs. for the easy movement of excavators and trucks.**

- (xiii) Mats to reduce the fly rock blast to maximum of 15 PPY should be provided.

**The Blast vibration studies are conducted at the quarry by National Institute of Technology Surathkal, Mangalore-Karnataka. The results of vibration/fly rock are well within the established limits. The recommendations of the report are strictly implemented at the quarry.**

- (xiv) Mining depth should not exceed beyond 40 m unless otherwise specified or not below the level nearest stream bed, whichever is less.

**At present the depth of the quarry is at adjacent ground level only.**

- (xv) Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB

**Provision of crusher for the quarry does not arise as the boulders produced in the quarry are being transported to the nearest crusher situated at 100 meters from the quarry.**

- (xvi) Assurance in the form of affidavit should be given to SEIAA that eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.

**The said affidavit dated 26.04.2013 has already been submitted to SEIAA.**

- (xvii) Garland drains to be provided in the lower slopes around the core area to channelize storm water.

**Garland drains are provided to channelize the storm water to the dis-used quarry at the bottom of the area.**

- (xviii) Debris/silt traps to be provided to prevent entry of dust and quarry wastes entering the main streams.

**Silt traps are provided at suitable places to prevent the wastes entering the main stream. Such traps are being cleaned before the onset of Monsoon every year.**

- (xix) All other statutory clearances should have been obtained, as applicable, by the project proponents from the respective competent authorities including that for blasting and storage of explosives.

**All the required statutory permissions required for the operation the quarry has been obtained for operating the quarry.**

- (xx) In case of any change(s) in the scope of the project, the project would require a fresh approval by this Authority.

**As there is no change in the scope of the project such approval does not arise as of now. However if any such changes is required we will approach for approval before such changes are made.**

- (xxi) The authority reserves the right to add additional safeguard measures subsequently, if found necessary and to take action including revoking of the environment clearance under the provision of the Environment (Protection) Act, 1986) to ensure effective implementation of the suggested safeguard measures in a time bound satisfactory manner.

**Any such directions/conditions shall be taken and implemented.**

- (xxii) Any stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 2006.

**All such stipulations under various acts mentioned above shall be complied with.**

#### **DECLARATION**

**WE HEREBY DECLARE THAT THE DETAILS MENTIONED ABOVE ARE TRUE TO THE BEST OF BELIEF AND KNOWLEDGE**

Place: Aarkuzha  
Date: 29.04.2015

(S.A.Dwarakanatha)  
Mines Manager

## ANNEXURE-1

### HANNA ROCK PRODUCTS (Pvt.) LIMITED

Meenkunnam, South Marady,  
Muvattupuzha Taluka,  
Ernakulam District  
Tel. No. +91 9544505901, 03 & 04

#### DETAILS OF EXPENDITURE UNDER CORPORATE SOCIAL RESPONSIBILITY FROM OCTOBER 2014 TO MARCH 2015

1	09.10.2014	Maruthi ECCO 7 SEATER for Marady Panchyath Buds rehabilitation centre	324601.00	
2	27.10.2014	P.V.Memorial Building Fund	2500.00	
3	31.10.2014	Thatwamasi Ayyappaseva Sangham ,Marady	7500.00	
4	13.11.2014	Senaa Shabdham, News weekly (MRV)	1500.00	
5	08.12.2014	BTUC (Medical camp)	3000.00	
6	19.12.2014	Kayanadu Mud Race	7000.00	
7	26.12.2014	Kera Karshaka Sangam	500.00	
8	26.12.2014	All Kerala Vadamvalli Competition . Aaroor	6000.00	
9	04.01.2015	Building Construction Workers Fund	1000.00	
10	01.03.2015	Ashraya Charitable Society	2500.00	
11	08.03.2015	Labours welfare,INL	8000.00	
12.	15.03.2015	S.S.E.D.C , Snehabhavan	4000.00	
			368101.00	

1.	K.K.Janardhan Kapillamkuzhiyil	25000	ARAKUZHA VILLAGE
2.	M.J.Joseph,Maniyamkallil	25000	ARAKUZHA VILLAGE
3.	K.N.Baiju , Kapillamkuzhiyil	25000	ARAKUZHA VILLAGE
4	M.J.Sebastain , Maniyamkallil	25000	ARAKUZHA VILLAGE
5	Saju Devasya,Kannamkallel	25000	ARAKUZHA VILLAGE
6	Binu James, Maniyamkallil	25000	ARAKUZHA VILLAGE
		150000	