



RAJASTHAN STATE MINES & MINERALS LIMITED  
(A Govt. of Rajasthan Enterprise)

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EOI No. RSMM/CO/GGM (Rock Phosphate)/2015-16/01

Dated: 13.05.2015

**Notice Inviting Expression of Interest (EOI)**

Notice Inviting Expression of Interest (EOI) from Technically & Financially sound firms for *“Preparation of representative Samples and assessment of a heterogeneous stack of more than 58 lacs tonnes of Secondary Rock Phosphate Ore and carrying out chemical analysis”*.

*Keeness Money: Rs. 72,000.(Seventy Two Thousand only) in the form of Demand Draft drawn in favour of RSMML payable at Udaipur, along with your offer. Any offer without the Demand Draft will be rejected.*

Details of the project proposal are provided in the **“Detailed Notice Inviting Expression of Interest (DEOI)”** for which kindly visit our website: [www.rsmm.com](http://www.rsmm.com) and submit your offer as per the Proforma given in **Annexure 1 of DEOI**.

*Pre Offer Submission meeting: 04.06.2015 at 11 AM at Corporate Office, 4 Meera Marg Udaipur.*

*Last Date for Submission of offers: 15.06.2015 at 3.00 PM in our Marketing Department, at Corporate Office, Udaipur.*

Keep visiting our website for updated information, if any, before the closing date of EOI

**GGM (Rock Phosphate)**



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**Preamble:**

Rajasthan State Mines and Minerals Limited (RSMML) is one of the leading and progressive Enterprise of the Government of Rajasthan. It occupies a place of pride in production and marketing of non-metallic minerals of India. RSMML is multi mineral and multi location enterprise engaged in mining of Rock Phosphate, Lignite, SMS grade Limestone and Gypsum. RSMML is not only the leader in Mining & Selling of Rock Phosphate, Gypsum across the country, but also global pioneer in technology in open cast mining and mineral beneficiation of Carbonate Rock Phosphate. Besides minerals, RSMML has also forayed into Energy Sector and has set-up 106.30 MW installed capacity Wind Power Project at Jaisalmer, Rajasthan.

**Brief Details of the Project:**

**Overview:**

The Secondary Rock Phosphate (Grade variation from 5% P<sub>2</sub>O<sub>5</sub> to 15%P<sub>2</sub>O<sub>5</sub>) is being generated during mining of High Grade Ore (> 30% P<sub>2</sub>O<sub>5</sub>) from F and G Blocks of Jhamarkotra Rock Phosphate deposit in Udaipur district, Rajasthan. This Secondary Rock Phosphate ore is being stacked separately and till 01-04-2014 about 58 lac MT was available in this stack.

The Secondary Rock Phosphate stack near F-block is a sub grade mineral recovered from the overburden domain adjacent to primary ore body of the F & G block areas. The mining in F block is under progress since 1993 & that of G block since year 2006. The secondary phosphate occurs in the form of thin apatite crust incrustation along the cracks & fractures in the adjacent overburden hanging wall rocks. The overburden rocks are mainly altered dolomite due to high degree of metamorphism as evident by the presence of silicate minerals. Based on the degree of crystallization of apatite crusts & the density of apatite veins, the grade of secondary phosphate varies from place to place.

**Present Status of Mineral Rejects (Secondary Rock- Phosphate):**

The secondary Phosphate ore consists of +22-24% & 25-27%P<sub>2</sub>O<sub>5</sub> and is being used for blending purpose for generating various products whereas the Sub Grade Secondary Ore consisting of 5%P<sub>2</sub>O<sub>5</sub> to 15%P<sub>2</sub>O<sub>5</sub> is being stacked separately (As per IBM threshold value guidelines). The Typical chemical composition of Sub Grade Secondary Rock Phosphate is as Shown in Table 1 hereunder:

**Table 1**

<b>S.No</b>	<b>Description</b>	<b>Specification</b>
<b>1</b>	<b>Phosphate (P<sub>2</sub>O<sub>5</sub>)</b>	<b>5-15 %</b>
<b>2</b>	<b>Acid Insoluble (A.I.)</b>	<b>40-70%</b>
3	Magnesium Oxide (MgO)	0.1-5 %
4	Iron & Aluminum (R <sub>2</sub> O <sub>3</sub> )	2-6%
5	Calcium Oxide (CaO)	10-32%
6	Loss of Ignition	2-12 %

### **Parameters for Evaluation of the Stacked Ore Characteristics**

From the above Table 1 it can be seen that there is a large variation in the P<sub>2</sub>O<sub>5</sub> and Acid Insoluble (mainly SiO<sub>2</sub>) content in the stack. Hence, in order to draw **Representative Samples**, from this huge heterogeneous stack covering an area of about 14 Hactares, rising to an average height of 75 meters and size fractions varying from very fine to large size boulders (400 to 800 mm), very precise sampling techniques will have to be applied like pitting, trenching, channelling, drilling by machines of suitable size and type (viz. Down the Hole (DTH), Rotary Percussion and Auger Drilling, Reverse Circulation methods of drilling or any other suitable technique) to obtain the best representative samples. Provision of Excavator(s) of suitable capacity and portable crusher/grinder unit, for preparing representative samples, should also be kept in mind by the bidders for preparing channels, pits & trenches.

Further, based on the data generated from the above exercise, developing grade wise plans (isopachs) and sections in order to define, at varying levels of the stack, blocks of different grades so that an excavation programme for consuming this stack can be prepared by RSMML.

On account of the above, a Concept Paper highlighting the methodology of sampling will form an integral part of this EOI and the main criteria for qualifying the bidders to the next stage of bidding i.e. Request for Proposal (RFP).

The bidder has to give a time bound programme in the form of a PERT chart of various activities of sampling methodology to be adopted.

In view of the above requirements, the bidders, at their own responsibility and cost, are advised to visit and examine the Site Conditions to satisfy himself from the point of view of assessing the availability of necessary resources (man & machines) that may be required for successfully completing the proposed work.

***Permission to visit the site can be obtained from GGM (Rock Phosphate), Jhamarkotra Mines, Udaipur.***

### **Pre Offer Submission Meeting:**

A Pre Offer Submission Meeting meeting shall be held on **04.06. 2015 at 11:00 AM** in our **Corporate Office at Udaipur** to brief the potential bidders and to answer their queries. Bidders are therefore requested to submit their queries in writing or by Fax to reach GGM (Phos), Jhamarkotra, Udaipur and a copy of the same to Advisor (Projects) at least ten days before the meeting. It may not be possible to answer your queries asked during the meeting, if the same are not received earlier.

Attendance at the pre-bid meeting is not mandatory and non-attendance will not be a cause for disqualification of the bidder. It is however, in the interest of the bidders to attend the Pre-Offer Submission Meeting.

Experienced and reputed firms having relevant experience in such sampling works are required to send their proposals on their letter head, as per the Proforma enclosed as **Annexure-I**, to reach us latest by **16.06.2015 up to 3.00 PM in our Marketing Department, Corporate Office, Udaipur**. The proposal so invited and submitted shall be evaluated on technical and financial competency of the firms. After evaluation as suggested above, the Pre-qualified firms shall be requested for detailed **Request for Proposal (RFP)** for which a RFP document shall be given to Pre-qualified firms.

## Annexure-1

### **PROFORMA FOR PROPOSAL AGAINST EOI**

1. **Company Details**

- Name of the firm
- Type & Nature of firm
- Address
- Contact Person
- Contact Telephone Number
- E-Mail Address

2. **Turnover**

- Total annual minimum turnover should be Rupees **Fifteen lacs** in any one of the last 3 financial years. (i.e.2011-12, 2012-13, 2013-14).

3. **Criteria for Assessing your Expression of Interest will include the following:**

- Financial strength
- An experienced geologist, well versed with the procedures of sampling and evaluation of the deposits will be required to be fully associated with the project.
- Availability of equipments, machines etc. required for successfully completing the work.
- Accreditation with a NABL Laboratory for conducting chemical analysis of samples.

4. **Capability Statement**

**Concept Paper**

- You have to submit a Concept Paper along with your offer clearly giving the proposed methodology to be adopted for carrying out the assignment. It is also advisable to visit the site before preparing the Concept Paper in order to develop a conceptual plan looking to the physical nature of the stack.
  - Details of previous experience in conducting similar exploratory work of this magnitude.
  - CV(s) of Key Personnel to be involved in the project.
5. Estimated activity wise investment for the proposed project, implementation schedule and time frame for completing the work.
6. Organisational Structure and proposed team to carry out the assignment.
7. Any other relevant information

**Closing Date for Submission of Proposal:**

This proposal together with the requested supporting documents must be submitted, on or before 16.06.2015 by 3.00PM (IST) to the address specified in the EOI

**Note:**

1. **Detailed response to each of the above requirement to be submitted on separate sheets.**
2. **Interested firms are advised to keep visiting our website till due date/extended due date of EOI for corrigendum/addendum, if any, to this EOI.**

**GGM (Rock Phosphate)**