



RAJASTHAN STATE MINES & MINERALS LIMITED
(A Government of Rajasthan Enterprise)
Projects Division
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No. DEOI/RSMML/CO/Proj/SO&T/2015-16/191

Dated : 03.07.2015

DETAILED NOTICE INVITING EXPRESSION OF INTEREST

Expression of Interest (EOI) is hereby invited from the experienced consultants for consultancy on the projects of (i) Value addition & business strategy for Rock-phosphate Secondary Ore of Jhamarkotra Mines (ii) Value addition & business strategy for Rock-phosphate beneficiation tailings (iii) Revival of mining operations at Dakankotra Rock-phosphate open cast mines. Keenness money for participating against this Expression of Interest is Rs. 10,000/- (Rupees ten thousand only) for each project in the form of Demand Draft drawn in favour of Rajasthan State Mines & Minerals Ltd payable at Udaipur. The bidder may quote for consultancy on one or more projects. However, bids for consultancy on each project should be submitted separately. RFP document will be issued only to the eligible bidders for submission of detailed offer along with price bids and keenness money of non-eligible bidders will be refunded. However, the eligible bidders will have to participate against RFP; otherwise their keenness money shall be forfeited.

PREAMBLE:

Rajasthan State Mines & Minerals Limited (RSMML) is one of the leading and progressive undertakings 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 and 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. It has setup 106.3 MW installed capacity Wind Power Project at Jaisalmer and 5 MWp capacity Solar PV Power Plant at Bikaner, Rajasthan.

BACKGROUND, SCOPE OF WORK & PRE-QUALIFYING CRITERIA:

Brief backgrounds of the issues, scopes of work & pre-qualifying criteria for consultants are as under:

(I) For Rock-phosphate Secondary Ore:

Brief Background

Secondary Ore is getting generated during mining of high grade Rock-phosphate ore at Jhamarkotra Mines. Tentative quantity of excavated secondary ore available at our mines is 50 lac MT and is adding @ 2 lac MT per year (approx).

Chemical Analysis ROM Secondary Rock-phosphate:

Indicative chemical analysis of the ore is as under:-

Constituents	Assay %
P ₂ O ₅	10-13.5
Acid Insoluble (SiO ₂)	49.48
Fe ₂ O ₃	5.66
Al ₂ O ₃	6.87
CaO	20.13
MgO	0.46
F	1.35
LOI	2.68

Approximate Distribution of Minerals in Secondary Ore:

Name of the mineral	Approx.%
Apatite	35-40
Quartz	~35
Mica(muscovite,biotite,sericite)	12-15
Goethite/limonite	4-5
Carbonate(Calcite)	2-3
Hematite	2-3
Clay(kaolinite)	2-3
Pyroxene(diopside), amphibole	1-2

Scope of Work for Consultant:

The consultant will be required to do the following work:

- (i) Suggest most reliable methodology for deriving average analysis of heterogeneous stacks of Secondary Ore.
- (ii) Suggest various alternatives for value addition of the Secondary Ore. Compare merits & demerits of alternatives and recommend the best one.
- (iii) Prepare 'Techno Economic Feasibility Report' of the best alternative for value addition of the Secondary Ore.
- (iv) Suggest appropriate business model/ strategic alliance/ joint venture/ development agreement for value addition of the Secondary Ore.

Pre-qualifying Criteria:

The bidder should have experience of consultancy in value addition/ beneficiation of minerals. At least one mineral value addition/ beneficiation project should have been carried out by the bidder in last 5 years.

(II) For Rock-phosphate Beneficiation Tailings:

Brief Background:

During course of up-gradation of low grade Rock-phosphate ore through beneficiation process, about 4.5 lac MT tailings are generating per annum at Jhamarkotra Mines. It is a matter of concern that existing tailing-dam is already full and being used after raising its height. New tailing-dam construction is getting delayed due to land acquisition related issues. Nearly 45 lac MT tailings containing approximately 8% P₂O₅, 15% MgO and 3% to 4% Acid Insoluble (AI) have accumulated so far. Safe storage of rock/ processed material containing ≥5% P₂O₅ is

mandatory. In this backdrop, Company is exploring the possibility of value addition of the tailing waste, so that twin objectives of recovering P_2O_5 from the tailings/ value addition through alternative method and creating space in the existing tailing-dam for accommodating future tailings may be achieved.

Scope of Work for Consultant:

The consultant will be required to do the following work:

- (i) Suggest most reliable methodology for deriving average analysis of tailings in the existing tailing-dam.
- (ii) Suggest various alternatives for value addition of the Rock-phosphate beneficiation tailings. Compare merits & demerits of alternatives and recommend the best one.
- (iii) Prepare 'Techno Economic Feasibility Report' of the best alternative for value addition of the Rock-phosphate beneficiation tailings.
- (iv) Suggest appropriate business model/ strategic alliance/ joint venture/ development agreement for value addition of the Rock-phosphate beneficiation tailings.

Pre-qualifying Criteria:

The consultant should have experience of consultancy in value addition/ beneficiation of minerals. At least one mineral value addition/ beneficiation project should have been carried out by the bidder in last 5 years.

(III) For Mining Resumption at Dakankotra Rock-phosphate Mines:

Brief Background:

Dakankotra Rock-phosphate mine lease was held by RSMDC since 03.07.1981. Mining lease was initially granted for a period of 20 years with the provision of renewal. Application for renewal was submitted well in time i.e. on 25.09.2000. On merger, ownership of mine lease got changed in the name of RSMML. The mine was operated successfully since the grant of lease till May, 2004 when mining activities were suspended by an order of the Hon. High Court of Rajasthan on the ground of non-availability of Environment Clearance (EC). Later, the EC was obtained on 09.03.2007 and consent to operate was also received from RSPCB subsequently. Despite completing all the formalities, lease renewal application remained pending with DMG(R). Meanwhile, efforts were made to resume mining operations based on provisions on Rule 24A(6) of MCR, 1960 i.e. 'if an application for renewal of a mining lease made within the time referred in sub-rule (1) is not disposed of by the State Government before the date of expiry of the lease, the period of that lease shall be deemed to have been extended by a further period till the State Government passes order thereon'. NITs have been floated thrice for outsourcing mining but without success. In the first case, no offer received despite extensions; in the second case, rates were exorbitant as compared to internal estimates and in the third case, land owner backed out at the last moment resulting in scrapping of tender. At present, land acquisition is a major issue as out of 159.77 hectare lease area, 126.265 hectare is private land. Besides, a bypass through lease area has been finalized by NHAI to connect NH-8 and NH-76 which is within 500m blasting danger zone from most of the active mining area. Lease renewal is still pending. Left out mineral reserve is about 6.86 lac MT with P_2O_5 contents varying from 20.5 to 26%.

Scope of Work for Consultant:

The consultant will be required to do the following work:

- (i) Suggest whether RSMML should proceed for mining at Dakankotra Mines by land acquisition and obtaining all the statutory permissions/ clearances itself or opt for any other model in which arrangement of land, various clearances and mining operation would be taken care of by any other agency e.g. joint development agreement.

- (ii) Prepare 'Techno Economic Feasibility Report' considering P₂O₅ contents in ore available at Dakankotra Mines, its mining cost, transportation cost to Jhamarkotra for blending/ beneficiation and process cost for making saleable product.
- (iii) Suggest appropriate business model/ strategic alliance/ joint venture/ development agreement for exploitation of Rock-phosphate at Dakankotra Mines.

Pre-qualifying Criteria:

The consultant should have experience of consultancy in mining and works related to mine plan & environment clearance.

KEENNESS MONEY:

The bidders have to deposit the keenness money in the form of D.D. in favour of RSMML payable at Udaipur amounting to Rs. 10,000/- (Rupees ten thousand only) for each project. The keenness money of non-eligible bidders will be refunded and RFP document will be issued to only eligible bidders for submission of detailed offer with price bids in which participation of the eligible bidder is essential, otherwise keenness money shall be forfeited.

Competent & interested parties are required to send their proposals, as per the enclosed Proforma (**Annexure-I**), so as to reach us latest by **30.07.2015 up to 3.00 PM**. For further information, please contact Advisor & Head (Projects) at the above address. Also, the bidders may visit our Jhamarkotra and Dakankotra Mines, if they want to see Secondary Ore/ beneficiation tailings/ Current condition of Dakankotra Mines.

Advisor & Head (Projects)

Note: Interested consultants are advised to keep visiting our website till due date/ extended due date of EOI for corrigendum/ addendum, if any.

PRO FORMA FOR PROPOSAL AGAINST EOI

1. Consulting Firm/ Individual Details

- Name of the firm/ consultant
- Address
- Contact Person
- Contact Telephone Number/ Mobile Number
- E-Mail Address

2. Criteria for Assessing Expression of Interest (EOI)

As per Pre-qualifying criteria.

3. Organizational structure, in case of firm.

4. Any other relevant information consultant desires to furnish.

Closing Date for Submission of Proposal:

This proposal together with the requisite supporting documents must be submitted on or before **30.07.2015 by 3.00 PM** (IST) to the address specified in the EOI.



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Keenness Money for participating in this Expression of Interest: is **Rs. 10,000/- (Rupees Ten Thousand Only)** for each project in the form of Demand Draft drawn in favour of RSMML payable at Udaipur.

Details of the project proposal are provided in the '**Detailed Notice Inviting Expression of Interest**' for which kindly visit our website: "www.rsmm.com" or contact at the above address. Offers against EOI will be accepted up to **3.00 PM on 30.07.2015** at Corporate Office, Udaipur.

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

Advisor & Head (Projects)