



**RAJASTHAN STATE MINES & MINERALS LIMITED**  
(A Government of Rajasthan Enterprise)

**Detailed Expression of Interest (DEOI)**

For

**Appointment for Mine developer & Operator for mining of Gypsum from  
B-block of Bhadwasi Gypsum Mines Tehsil & Dist:-Nagaur, Rajasthan**

AREA: 572.33 HECTARE

DEOI No. RSMM/CO/PROJ/2022-23/149 Dated: 04/08/2022

*Issued by:*

**Group General Manager (Project),  
Corporate Office, RSMML,  
4-Meera Marg, Udaipur 313004**

Date of Pre-Bid Meeting: 24/08/2022 at 4.00 PM  
Last Date of Submission of Offers: 06/09/2022 up to 3:00 PM  
Date of Opening of Offers: 06/09/2022 at 3:30 PM

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**1. Preamble:**

Rajasthan State Mines and Minerals Limited (RSMML), a Government of Rajasthan Enterprise, is engaged in Mining & Marketing of Rock Phosphate, Lignite, Limestone and Gypsum. Besides minerals, RSMML has also forayed into Energy Sector and has set up a 106.3 MW installed capacity Wind Power Project at Jaisalmer and a 5 MW Solar Power Project in the Bikaner district of Rajasthan.

**2. The objective of DEOI:**

The company has envisaged appointment of mine developer and operator for mining & production of Gypsum from B-Block of Bhadwasi Gypsum Mines Tehsil & District Nagaur, Rajasthan. Accordingly, RSMML invites DEOI from prospective bidders for entering into a long-term agreement for a minimum period of 20 years with the provision of an extension of further 10 years to develop and operate B-Block of Bhadwasi Gypsum Mines with execution and compliances of various statutory authorities. The mines will be developed for an indicative Gypsum production capacity of 20 Lakh MT per annum.

**3. Location and Accessibility:**

**Location:**

The Bhadwasi Gypsum Mines, with a total mining lease area of 1122.38 hectares, is situated about 20 to 25 kms from the district headquarter Nagaur. The Mining Lease area comprises of four blocks namely, A-Block, B-Block, G-Block & K-Block, out of which the DEOI is invited for B-Block of Bhadwasi Gypsum Mines measuring an area of 572.33 Hectares. At present, the Mining Lease is valid upto 31.03.2025, further extension shall be subject to approval of Government of Rajasthan. The certified coordinates of the B-Block area of Bhadwasi Gypsum Mines by the Department of Mines & Geology are as under.

RP and Pillar	Longitude	Latitude
Pillar B1	73°42"18.91"	27°21"18.93"
Pillar B2	73°42"46.34"	27°20"47.12"
Pillar B3	73°40"32.78"	27°19"15.27"
Pillar B4	73°40"05.35"	27°19"47.07"

**Accessibility of Site:**

Bhadwasi Gypsum Mines is well connected with the road as well as with rail. The Bhadwasi village railway station is suitable for dispatching Gypsum by rail.

The mine is approachable from National Highway No. 89 at village Barani of about 7 kms (situated 13 Kms from Nagaur towards Bikaner) to Bhadwasi. The mine is also approachable from national highway No. 65 at Nagaur by-pass, which is connecting national highway 89 and 65 at Nagaur.

**4. Geology:**

Gypsum deposit at Bhadwasi mines occurs on the surface with recent to sub-recent age formations and at depth with Nagaur group of formation. The surface Gypsum deposit at Bhadwasi Gypsum Mines was exhausted long back. The proposed DEOI is to develop Gypsum Mine at a deeper level at the B-Block of the Bhadwasi Gypsum Mine.



The Geological succession of Nagaur District is as under:

Series	Rock Type	Age
-----	Desert sand soil with Gypsite and Kankar.	Recent to Sub Recent
	----- Unconformity-----	
Upper Nagaur	Sandstone, Siltstones, Shale's, and Arenaceous Limestone.	Upper Vindhyan
Lower Nagaur	Siltstones, Clay Stones, Clays and Gypsum Beds	
Rol Formation	Dolomites and Limestone at Alai and Genthilsar	Lower Vindhyan

The Lithology of B-Block of Bhadwasi Gypsum Mines is as under:

Lithological units	Thickness in Meters
Desert sand / Alluvium	2-15
Yellow clay and sand	0-05
Red clays, calcareous clay stones with micaceous siltstones	10-75
Main gypsum bed with white and grey gypsum with intermittent clays	6-27
Red clays with intercalations of crystalline Gypsum, dolomites, limestone.	2- 80

**Geological Minable Reserve & Resources:**

Geological Reserve G-1 Level (in Million Tone)	
Grade 75 to 80% CaSO <sub>4</sub> 2H <sub>2</sub> O	39.73
Grade 80 to 85% CaSO <sub>4</sub> 2H <sub>2</sub> O	15.52
Grade 85 to 90% CaSO <sub>4</sub> 2H <sub>2</sub> O	35.76
<b>Total</b>	<b>91.01</b>
Geological Reserve G-2 Level (in Million Tone)	
Grade 75 to 80% CaSO <sub>4</sub> 2H <sub>2</sub> O	07.43
<b>Total Geological Reserve</b>	<b>98.44</b>
Proved Gypsum Reserve (111)	64.39
Pre-Feasibility Mineral Resources (222) blocked in public structures and roads to be diverted.	14.11
Measured Mineral Resources (331)	18.858
Indicative Non-Minable Resources	1.07
Depth of Gypsum Bed from surface	42m – 62m
The thickness of Gypsum Bed	6m-27m

