



**MODIFICATION IN THE APPROVED  
REVIEW OF MINING PLAN**  
"Submitted Under Rule 17(3) of MCR, 2016"

**WITH PROGRESSIVE MINE CLOSURE PLAN**  
Under Rule 23 of MCDR 2017  
of

**SHRI BAJRANG IRON ORE MINE**  
**M/s. SHRI BAJRANG POWER & ISPAT LIMITED**  
over 75.00 hectares in the district of  
**Uttar Bastar Kanker, Chhattisgarh State.**

**Proposal Period F.Y.: 2021-22 to 2023-24 (3Years)**

|                     |                                                                                                  |
|---------------------|--------------------------------------------------------------------------------------------------|
| Category of Mine    | Fully Mechanized (A-FM)                                                                          |
| Lease Period        | 21.11.2014 to 20.11.2044 (30 years)                                                              |
| Area in Forest Land | 75.00 ha. F.C. No: 641(P) & 642(P),<br>Durgukondal Forest Range, East<br>Bhanupratappur Division |
| IBM Regd. No        | IBM/4393/2011                                                                                    |
| Mine Code           | 30CHG08007                                                                                       |

**TEXT**  
**(Volume-I of II)**

Prepared By/

Technically Qualified Person:

**D. K. Mahanta [M. Sc (Geology)]**

*[Signature]*  
21/11/2021

क्षेत्रीय खान नियंत्रक,  
Regional Controller of Mines  
भारतीय खान ब्यूरो, रायपुर  
Indian Bureau of Mines, Raipur

See:

**M/s. Shri Bajrang Power & Ispat Limited**  
Borjhora, Urla-Guma Road  
Raipur- 493221  
Chhattisgarh.

ख.र.नि.2016 के नियम 16(3) के अन्तर्गत अनुमोदित की गई।  
Mining Plan/Review of Mining Plan/ Modification of Mining Plan  
approved vide letter no. 30CHG08007/2021 Dated  
21.11.2021 Under Rule 16(3) OF MCR 2016

## CHAPTER-6.0

### PROCESSING OF ROM AND MINERAL REJECT

a. If processing /beneficiation of the ROM or Mineral Reject is planned to be conducted, briefly describe nature of processing/beneficiation. This may indicate size and grade of feed material and concentrate (finished marketable product), recovery etc.

At present the mineral 20 to 200 mm size is sent to crushing plant to crush it and screen it into required size, whereas the ROM of less than 20 mm is fed into the screen plant to separate the mineral as per size, where (-) 10 mm is treated as fines and (+)10 to 20 mm is treated as lumps after separation. Total ore which will be processed during next 3 years will come from the following source.

- (i) ROM ore produce from mines (45% & above grade)
- (ii) Natural iron ore fines, lump of hard iron ore, lateritic ore and soft lateritic ore.
- (iii) Mechanically mines Rom of hard ore boulders natural iron ore fines.
- ROM ore from the above source are processed through fixed crushing & screening plant and mobile screening & screening plant and mobile screening & crushing unit to get sized ore and iron fines of different grade as per requirement of captive plants of the company.

The details of existing captive plants of M/s Shri Bajrang Power & Ispat Limited with production capacity (Finished product) and iron ore requirement is as follow:-

**Table No.-48**

| Location          | Works Details                      | Finished product capacity | Iron ore Requirement |                                                                                                                                                          |
|-------------------|------------------------------------|---------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |                                    |                           | Quantity             | Grade                                                                                                                                                    |
| Borghara Division | 1. Sponge Iron Division            | 0.2 MTPA                  | 2.00 MTPA            | 60 % Fe & above for finished product pellets, sponge iron, Ferro Alloys, Billets, TMT Rebars, Binding wire, HB wire, wire rod, MS Rounds, ERW pipes etc. |
|                   | 2. Hot Re- Rolling mill            | 0.12 MTPA                 |                      |                                                                                                                                                          |
|                   | 3. Still melting Shop              | 0.1296 MTPA               |                      |                                                                                                                                                          |
| Tilda Division    | 1. Sponge Iron Division            | 0.40MTPA (2 X 600 TPD)    |                      |                                                                                                                                                          |
|                   | 2. Palletisation Plant             | 1.40 MTPA                 |                      |                                                                                                                                                          |
|                   | 3. Iron Ore beneficiation Plant    | 2.00 MTPA                 |                      |                                                                                                                                                          |
| Gondwara Division | 1. Rolling Mill                    | 0.0595 MTPA               |                      |                                                                                                                                                          |
|                   | 2. Still Melting Shop              | 0.1056 MTPA               |                      |                                                                                                                                                          |
|                   | 3. Rolling mill with coal gasifier | 0.150 MTPA                |                      |                                                                                                                                                          |

In this mine it is proposed to operate 3 nos mobile screening & 2 nos mobile crushing units along with 1 fixed crushing & screening plant. These mobile units will be located in the quarry, in non-working quarry benches and other mineral storing/ stacking yard as per convenience & requirement. These mobile units will be operated either in combination or individual. Total capacity of these units will be enough to handle total 1.0 Million Tonne of Iron ore.

Details of the dry processing plants already under use or proposed to be used is given below.

#### 1. Stationary crushing plant:-

Capacity 250 TPH (worked at 80 % capacity): 1 Nos, it can process about 0.48 million tonne of iron ore. ROM/ screened oversize ore produced from mines are processed in this crusher.

2. Mobile screening plant:- Capacity 250 TPH/ worked at 80% capacity) , 2 nos. it can screen about 0.96 million tonne of iron ore.