

Bhubaneswar, Dated 01 -12- 2025

From Sri Sarat Kumar Jena Dy. Director General (Retd) GSI Flat No. A 101, Palm Height Apartments .Shampur Po: mahalaxmi vihar Via Baramunda Bhubaneswar 751029	To THE HOD (EXPLORATION) Exploration division, (MECL) Mineral Exploration and consultancy Ltd. (a Government India Enterprise) Dr. Babasaheb Ambedkar Bhavan Seminary Hills, Nagpur PIN: 440006
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Sub: Regarding Peer Reviewed “*Geological report on reconnaissance survey (G4 stage) for manganese and associated minerals in KATORI- JHIRIYA block(140.22 sq.km), Dist. Balaghat, Madhya Pradesh*”.

Ref: i). Your letter no MECL/EXPL/FILE/NMET/P.R/2025-26/703 ,Dated 21-11-2025

ii) NMET letter no.F.No.44/1/2017-NMET/526, dt.19-11-2025

Report received by email on dt.21-11-2024 & hardcopy by speed post on 25-11-2024

Sir

With reference to above letter , I have enclosed the peer reviewed report titled “*Geological report on reconnaissance survey (G4 stage) for manganese and associated minerals in KATORI- JHIRIYA block(140.22 sq.km), Dist. Balaghat, Madhya Pradesh*.” after completion for necessary corrections. The observations, and suggestions for modifications where ever necessary is attached in a separate sheet and also in the body of report for your information.

2. Further as per instruction of director NMET, the corrected Geological report along with annexures, Images, shape files ,text and pdf files adhere to the prescribed scheme Annexure-1(as per MERT format of NGDR) completed with all respect to be submitted to NMET, for uploading in NGDR portal.

3. Copy of the submission letter of corrected report pl be provided to the undersigned for information.

4. Pl arrange to pay the honorarium for the peer review, in My SB A/C no.34500210767 & IFSC SBIN0003116, SBI, ADB Bidyadharpur Cuttack.

Thanking you

Yours Faithfully



Sarat Kumar Jena

Copy to: The HOD, NMEDT Secretariat, Room No. 325 & 326, wing- F, Udyog Bhawan, Dr Rafi Ahmad Kidwai Marg, Rajpath area, Central Secretariat, New Delhi-11001.

GENERAL OBSERVATIONS AND SUGGESTIONS FOR MODIFICATION

in the Peer Review Report titled *“Geological report on reconnaissance survey (G4 stage) for manganese and associated minerals near In KATORI- JHIRIYA block(140.22 sq.km), Dist. Balaghat, Madhya Pradesh.”*.

1. **Page no.3:** latest available reserve of world manganese may be given to compare with India's reserve (at least Upto 2020).
2. **page -7,1.5.1:** the area of the present block is 140.22 sq.km instead of 14.22. pl correct.
3. **Page 34,ch 7.1.3 & 7.1.4 :** the spelling Chorbaoli/ Chorbahuli pl correct.
4. **Page 48,&53:** pl label different minerals in the pmg-2& pmg-3 photomicrograph.
5. **Page 64:** composition of laterite (ferruginous/manganiferous) Is there any local use of laterite as slabs etc.
6. **page-78, Chapter, 7.19.9; pl add.** subsequently remobilization by meteoric water and supergene enrichment plays a major role in depositing Mn ore bodies along suitable structural traps. Occurrence of discontinuous lensoidal Mn ore bodies along foliation showing pinching and swelling structure are formed due to interference of various fold systems in the block.

7. Plates: some modifications suggested

- i. Plate no.3. The referred localities should be marked in larger font for more clarity.
- ii. Plate.5.-The back ground colour should be light ,for more contrast with other data shown in the map.
- iii. Plate-07 & 08.- the colour index for Manganese ore body should be same In both.

8.pl attended to minor corrections and queries as indicated in the hardcopy and complete the report with all check sample data before final submission .

CONCLUSION:

Overall field work and documentation of previous and present data of the *Geological report on reconnaissance survey (G4 stage) for manganese and associated*

minerals near In KATORI- JHIRIYA block(140.22 sq.km), Dist. Balaghat, Madhya Pradesh
at G4 stage is very good.

The shallow and wide spaced ore bodies exposed in the mapped area may be due to basin condition and available manganese solution during deposition along suitable structural traps. Though the block falls within famous gonditic manganese belt of Madhya Pradesh, it appears to lie in a marginal lean zone in continuation with rich zones of SW along the regional strike enclosing important working manganese deposits.



1-12-2025

Bhubaneswar

Sarat kumar Jena