
EXECUTIVE SUMMARY

INTRODUCTION

The proposed Mohanpur Expansion OCP (Phase-II) is part of Mohanpur Geological Block of Raniganj Coalfields and is located in the Paschim Bardhaman district of West Bengal. As the name suggests, the proposed Mohanpur Expansion OCP (Phase-II) is an extension to the existing Mohanpur OCP, which is currently under operation as per an approved PR for Mohanpur (Expansion) OC (1.0 MTY). The proposed OCP is under the administrative control of Salanpur Area of ECL.

The first scheme for mechanized quarrying at Mohanpur, which was formulated by ECL in 1981, could not come up because Amdiha village could not be evacuated. Subsequently, a "Revised Feasibility Report" was formulated by CMPDI in March, 1984 for an area further west of Amdiha village. However, due to problem of dispatch of coal from Mohanpur colliery, the said RFR was kept on hold. Subsequent to augmentation of loading capacity at Barmondia Railway Siding, the said RFR was modified in 1988 for a production of 0.40 MTY at a capital investment of Rs. 1154.11 lakhs. Although the modified RFR was not implemented entirely, the OCP could achieve the targeted production of 0.4 MTY in the year 2004 and thereafter the level of annual production remained more or less same till FY 2008-09.

In order to augment the production from the OCP, a new PR for Mohanpur Expansion OCP was prepared in the year 2008 with a planned production of 1.0 MTY.

At present, Mohanpur OC mine is working by Partial Outsourcing mode and producing around 1.0 MT of coal per year with salanpur-A/Salanpur Spl (Bot) seam as base. Most of the production comes from Salanpur-A seam as this is the thickest seam having average thickness of around 15 m to 18 m.

The proposed Expansion PR (Phase-II) envisages extension of mining zone beyond the Southern Boundary (Dip side boundary) of the approved Mohanpur PR (1.0 MTY) up to the geological Block Boundary, which coincides with fault F4-F4 with down throw of 90 m towards South. The proposed PR includes the entire mining zone of approved PR as well as the OC patch and the balance geological block (leaving the south-west corner due to existence of big villages). The P.R has been planned to extract the workable parts of all the seams occurring in the Block starting from Salanpur Special Bottom up to Salanpur-D Top in ascending order. In most of the area of proposed

expansion, Salanpur Spl (Bot) seam is not developed and hence, in these zone floor of Salanpur Spl.(Top) seam will be the quarry floor.

It is proposed that the quarry front shall be moved in conventional manner from rise to dip. The presently operative dip side of Quarry-1 shall be advanced to reach its dip side limit up to Fault F4. Side-by-side, zone of Quarry-2 (as earmarked in 1.00 MTY approved PR) shall also be opened along full strike and advanced rapidly. Thus, there will be two quarry fronts for the first 5 years period (till Quarry-1 reaches its southern limit) and thereafter there shall be only one quarry front.

PR for Mohanpur Expansion OCP (Phase-II) was prepared in December 2015. The PR has been prepared on two modes of operation viz. departmental and Partial Outsourcing. In Departmental Mode, all the activities are proposed to be executed under departmental responsibility. In Partial Outsourcing option, the existing departmental capacity shall be deployed for extraction coal, whereas entire OB is proposed to be removed by outsourcing mode. ECL Board has approved the Report with **Partial Outsourcing Option** in its 286th meeting on 23.02.2016. Subsequently, an UCE was prepared in Partial Outsourcing option only in Aug'2016 which was approved by ECL Board in its 294th meeting held on 30.11.2016. Upon placing this report before ESC of CIL Board, the ESC advised to update the PR for all options. Complying with the advice of CIL Board, this updated report has been prepared.

The mine development jobs required towards the implementation of the proposed PR are listed below:

- Two number of 11 KV Power lines need to be diverted.
- One PWD road passing through south side of the proposed PR is to be diverted.
- Three no. small village with balance 125 PAF need to be re-habilitated for the proposed OCP.
- One nala/ jore passes through the northern side of the proposed quarry area from west to east. This nala will have to be diverted.

PROJECT SITE INFORMATION

The present Mohanpur Opencast mine is located at a distance of 11 km North of Asansol town in Paschim Bardhaman district and is under the administrative control of Salanpur Area of Eastern Coalfields Limited. Asansol-Lalganj-Gourangdih metalled road that passes by the eastern part of the mine through Amdiha village meets NH-2

by-pass at Jubilee more (near Asansol Engineering College) at Asansol. Itapara-Samdih D.B.road passes by the southern part of the mine. The block is at a distance of about 9 km due east of Rupnarayanpur station of Eastern Railway main line (Howrah – New Delhi - Howrah) and about 11 km due north of Asansol station of the same railway. The Toposi-Ikra branch line of Eastern Railway passes in east-west direction approximately at a distance of about 6 km to its south. Bonzemihari railway Siding is being connected by a new coal transportation road thereby reducing the lead distance from present 23 Kms to 9 Km from the project.

The block represents a gently undulating topography with general altitudes varying from 130m to 159m above mean sea level. The general slope is towards east. The lowest altitude is recorded in the north-east and highest in the north-west. The higher ground is generally covered by laterite/lateritic soil and the lower ground by soil/cultivable land. Nunia nala flowing easterly through the area located to the North of the Block, forms the main drainage system.

At present, the coal production from Mohanpur OCP is being obtained from Quarry-2 (of approved PR) by adopting Partial Outsourcing mode of operation, as envisaged in the approved Mohanpur Expansion PR (1.0 MTY). Mining operation at Quarry-2 has been started at the eastern part only due to presence of Pahargora Village (at the western part) for which process of rehabilitation has already been started.

Mohanpur OC does not have any CHP or siding facilities at the pit head. The ROM coal from the mine is being transported to Bonzemehari railway siding contractually which is at a distance of 22-23 km from the mine. However, new coal transportation road is being constructed by which the lead distance will be reduced to 8.0-9.0 Km.

The existing mine has Environmental Clearance of 1.00 MTY vide MoEF letter no.J-11015/1128/2007-IA.II (M) dated 10 – 12 - 2009. As, the present PR envisages to augment the coal production to 2.50 MTY covering a wider area, fresh Environmental clearance shall have to be obtained for the proposed expansion project.