F. No. 34011/28/2019-CPAM Government of India Ministry of Coal

Shastri Bhawan, New Delhi Dated, the 29th May 2020

Office Memorandum

<u>Subject: Guidelines for Preparation, Formulation, Submission, Processing, Scrutiny,</u> <u>Approval and Revision of Mining plan for the coal and lignite blocks.</u>

Undersigned is directed to state that the guidelines for formulation of Mining plan and Mine Closure Plan has been amended. It has been decided by the Government that all coal (including lignite) mining operations in India shall henceforth be governed as per modified guidelines enumerated below.

- 1. Mining Plan: All coal (including Lignite) mining operation in India shall henceforth be governed as per these modified guidelines listed below and henceforth, the Mine Closure Plan and Final Mine Closure Plan shall be integral part of Mining Plan. Separate approval of Mine Closure Plan/ Final Closure Plan has been done away with. The Guideline/format for formulation of Mining plan is enumerated at Appendix I.
- 1.1. **Implementation of the approved Mining Plans shall be sole responsibility of the mine owner.** Mining operations shall be undertaken in accordance with the duly approved mining plan. The mining plan once approved shall be valid for the balance life of the Mine, provided that any modification(s) of the mining plan is approved by the competent authority and such approval of the modified mining plan shall remain valid for the estimate balance life of the mining plan. Modification of the approved mining plan during the operation of a mining lease also requires prior approval.
- 1.2. The mining plan shall cover prescription for different phases of life of the mine as stage plan. The Stage plan for 1st year, 3rd year, 5th year, year of achieving rated capacity of the mine, Final year (i.e. at the end of mine life) and post closure shall be submitted at the time of initial submission of mining plan. The project proponent shall submit a **report/information** consisting **a.** compliance status with respect to approval condition of mining plan and grounds specified at para 1.3A; b. stage plan for next five years; c. revised balance life of the mine; and d. revised calculation of ESCROW amount with respect to revised balance life, to Coal Controller, CCO, Kolkata with a copy of the same to Administrative Section dealing with the allocation/allotment of the block and section dealing with approval of mining plan at MoC/CCO, for information. Such report/information must be submitted at least 180(one hundred eighty) days before the expiry of 5 (five) year, starting from the commencement of the Mineral Concession (Amendment) Rules, 2020 or the date of execution of the duly executed mining lease deed, whichever is later. Information desired above must bear certificate of Qualified Person/ Accredited Mining Plan preparing Agency and have approval of the respective company board. Non submission of such information during the stipulated time may result in withdrawal of mine opening permission or cancellation of the approved mining plan, as may be decided by CCO.

The Mining Plan approved prior to issue of this Guideline will qualify for submission of such report/information at least 180(one hundred eighty) days prior to expiry of 5 (five) year from the date of notification of the Mineral Concession Amendment Rules 2020.

1.3.(A) The mining plan may be modified for **a**. for change in method of mining; **b**. for facilitating increase in sanctioned peak capacity that is in excess of one hundred and fifty per cent of the

sanctioned rated capacity; **c.** change in leased area; **d.** in the interest of safe and scientific mining; **e.** conservation of minerals; **f.** for the protection of environment; **g.** addition of reserve by way of proving of reserve in the existing lease area; **h.** for changes in final mine closure conditions; or **i.** and such other change that may be determined by the Central Government. While submission of revision/ modification of mining plan the reason for revision/ modification shall be specified in writing by the lessee.

- (B) Notwithstanding anything contained in clause (A) above, for other minor changes, the project proponent is empowered to make modification with the approval of the respective company board. These minor changes shall cover **a**. changes in land type within the leased area; **b**. changes in HEMM deployment plan; and **c**. changes in location of infrastructure within the leased area. The project proponent shall submit specific report of such minor changes to Coal Controller, CCO, Kolkata with a copy of the same to Administrative Section dealing with the allocation/allotment of the block and section dealing with approval of mining plan at MoC/CCO, for information.
- 1.4. The Mining Plan submitted for approval shall have prior approval of the concerned Board of the Company.
- 1.5. The base date of the Mining Plan should be taken as cut-off date on which the extractable reserve, balance life etc. has been quantified.
- 1.6. The proposed leased area in the Mining Plan shall include the area specified in the mining lease within which mining operations can be undertaken and includes the non-mineralized area required and approved for the activities falling under the definition of mine as referred in The Mines Act 1952.Evacuation route, R&R and Employee Township area outside the block will not be part of the Mining plan.
- 1.7. Pre-mining land ownership/land type furnished in the mining plan will be of indicative in nature along with data source at its footnote (viz. from topo sheet, cadastral plan etc.).
- 1.8. The excavation/ mining area envisages in the mining plan must be restricted within the allotted/vested geological block boundary/existing mining lease and if the project area is confined within the allotted block boundary/existing mining lease, a certificate to this effect is to be provided by the **Qualified Person/ Accredited Mining Plan preparing Agency** preparing the mining plan. The certificate must be made on the Conceptual Plan depicting Cardinal Point Co-ordinates (shape co-ordinates) of the project boundary, Lease boundary and Geological Block boundary (binding co-ordinates given in the vesting order).
- 1.9. Under provisions of Rule 16 of MCR 1960, State Government is custodian of the exploration data. As such in the cases, where the project area extends beyond the block boundary/existing mining lease the Mines and Geology Department of the concerned State Government shall issue a certificate specifying (a) intent of the State Government for grant of lease beyond the vested geological boundary; (b) non-existence of coal/ lignite in the area beyond the vested/allotted geological block boundary/existing mining lease to rule out the issue of encroachment. The application for issue of certificate from the Mines and Geology Department of the State Government must be supported with proof of the non-existence of coal/lignite in the area under reference (along with their Cardinal Point coordinates) duly certified by custodian agency viz. CMPDIL/ SCCL in case of coal and NLCIL in case of lignite.

Where the project area extends beyond the block boundary/existing mining lease, the certificate issued by the Mines and Geology Department of the concerned State Government must be attached in the Mining Plan.

1.10. In case of allotted/auctioned coal/lignite blocks, the mining plan may be revised for extraction of more coal on year to year basis.

Provided that the mining plan shall be revised for extraction of less coal on year on year basis only under following circumstances: a. if the remaining extractable reserve of the coal mine is less than

3(three) times of the rated Capacity of the current Approved Mining Plan; b. Change in method of mining from Opencast to Underground necessitated due to change in geo-mining conditions. However, revision of Mining Plan for extraction of less coal would be subject to prior approval of the Nominated Authority.

- 1.11. The approval of the revised Mining Plan shall not result in changes in the terms and conditions or efficiency parameters mentioned in the CMDPA/Allotment Agreement signed at the time of allotment/vesting for the auctioned/allotted blocks without prior approval of the nominated authority or Central Government, as the case may be. However, efficiency parameters mentioned in the CMDPA/Allotment Agreement shall be linked to the rated capacity of the mine.
- 1.12. The project proponent shall envisage the action plan for exploration and liquidation of the balance reserve yet to be projectised.
- 1.13. The project proponent shall take all necessary precautions regarding safety of mine workings and persons deployed therein and shall adhere to all the statutory clearances with regards to safety.
- 1.14. Proposed project area envisaged in the mining plan shall not encroach into any other adjacent coal block unless permitted to do so by the Ministry of Coal in writing.
- 1.15. The approval of the Mining Plan is without prejudice to the requirement of approvals from competent /prescribed authority under the relevant rules/ regulations etc.
- 1.16. The project proponent shall submit an undertaking that the mine shall be operated as per the Environment Clearance (EC) & Forestry Clearance (FC) for the project.
- 1.17. **Statutory Obligation:** The legal obligations, if any, which the lessee is bound to implement, like special conditions imposed while execution of lease deed, approval of Mining Plan, conditions imposed by the Ministry of Environment, Forest and Climate Change (MoEF&CC), Central Pollution Control Board (CPCB), State Pollution Control Board (SPCB), Directorate General of Mines Safety (DGMS) or any other organizations describing the nature of conditions and compliance positions thereof, should be indicated in the Mining Plan.
- 2. Mine closure Plans: Mine Closure Plans will have two components viz. i) Progressive or Concurrent Mine Closure Plan, and ii) Final Mine Closure Plan. Progressive Mine Closure Plan would include various land use activities to be done continuously and sequentially during the entire period of the mining operations, whereas the Final Mine Closure activities would start towards the end of mine life, and may continue even after the reserves are exhausted and/or mining is discontinued till the mining area is restored to an acceptable level. The Mine closure details of the Mining Plan should be oriented towards the restoration of land back to its original as far as practicable or further improved condition.
- 2.1. Mining is to be carried out in a phased manner along with reclamation and afforestation work in the mined-out area.
- 2.2. Progressive mine closure plan shall be prepared for a period of every five years from the beginning of the mining operations. These plans would be examined periodically in every five years period and to be subjected to third party monitoring by the agencies approved by the Central Government, like Central Mine Planning and Design Institute Ltd. (CMPDIL), National Environmental Engineering Research Institute (NEERI), Indian Institute of Technology (IIT-ISM) or any other institutes/ organizations/ agencies specified from time to time for the purpose.
- 2.3. Various project specific activities viz. mined-out land details & their technical and biological restoration plan, water quality management, infrastructure to be retained and demolished, disposal of mining machinery, etc. shall be furnished in the relevant paras. Where the backfilling of the mine void is being carried out as part of regular mining operation, it shall not be included in the list of progressive mine closure activities. However, in case, where the backfilling of mine void is to be carried out specifically for closure of the mine, quantum of such overburden and the mine closure fund earmarked for the purpose must be included in the list of activities to be taken up for mine closure in the mining plan at the time of submission itself.

- 2.4. The Government may at any time before the closure of mine require certain activities to be included in the mine closure plans, which it may consider necessary for the safety and conservation of environment, or in compliance with any modification/ amendment in the relevant legislation.
- 2.5. Abandonment cost: The total cost for carrying out such activities shall be estimated for assessment of abandonment cost of the mine involving progressive and final mine closure activities such as barbed wire fencing all around the working area, dismantling of structures/demolition and cleaning of sites, rehabilitation of mining machinery, plantation, physical/biological reclamation, landscaping, biological reclamation of left-out overburden dump, filling up of de-coaled void, post environmental monitoring, supervision charges, power cost, protective and rehabilitation measures including their maintenance and monitoring, miscellaneous charges etc. for the specified post closure period.
- 2.6. **Escrow Account Calculation:** In August 2009 it was estimated that typically closure cost for an opencast mine was around rupees six lakhs per hectare of the total project area and rupees one lakh per hectare for underground project area at the-then price level. Accordingly vide letter dated 7th January 2013 a guideline for mine closure was issued which needed modification in these rates based on the wholesale price index (WPI) as notified by Government of India from time to time while preparing the Mining plan and Mine Closure Plan. The escalated rate (based on the current base year i.e. 01.04.2019) is Rupees Nine Lakh per hectare in opencast and Rupees one lakh fifty thousand per hectare for underground Mine. These rates will be considered as Base Rate to be applicable from 01.04.2019, which may change as specified from time to time by the Government of India.

[Exemplary Calculation: {(Rs 6 lakhs x 1.561 linking factor for base year 2004-05 x WPI 121.1 as on April 2019) / (WPI as on August 2009)} = Rupees 8.75 lakh, rounded to Rupees 9 (nine) lakhs per hectare in case of Opencast project].

Henceforth, these rates will stand modified based on the wholesale price index (WPI) as notified by Government of India from time to time. Annual closure cost is to be computed considering the total project area of the mine multiplied by escalated rate (at the above mentioned rates) and dividing the same by the balance life of the mine in years. An amount equal to the annual cost is to be deposited each year throughout the mine life compounded @5% annually.

[For example if the annual cost works out to Rs 100, then in the first year the amount to be deposited will be Rs 100, in the second year $100x(1+5\%)^{1}$, in the third year $100x(1+5\%)^{2}$ and so on.]

Further, in case of the mine, where escrow account is already open, the annual closure cost is to be computed considering the total project area at the above mentioned rates minus the amount already deposited and dividing the same by the balance life of the mine in years and annual cost as arrived should be compounded @5% annually.

- 2.7. **Financial Assurance:** The Mining Company/ Mine Owner as a part of Financial Assurance will open a Fixed Deposit Escrow account, with the Coal Controller Organization (on behalf of the Central Government) as exclusive beneficiary prior to commencement of any activities on the land/project area of the mine and shall submit the same to Coal Controller Organization (CCO) before the permission is given for opening the mine. The mining company shall cause the payment to be deposited at the rate computed as indicated at Para 2.6. The owner of the company may select the Schedule Bank where the Escrow account is to be opened and inform the same to the Coal Controller, CCO, Kolkata.
- 2.8. Coal Controller, Kolkata shall get the WPI (used for escalation of closure cost at the time of formulation of Mining plan) updated, at the time of opening of Escrow account. The mine owner/ company including all public/ private sector companies shall deposit the yearly amount in a Schedule Bank in accordance with Para 2.6. Coal Controller, Kolkata shall also get the

information, submitted under to para 1.2, verified and get the yearly closure cost modified with respect to the latest WPI in accordance with para 2.6.

- 2.9. Final Mine Closure: The details of the Mining Plan (covering Final Mine Closure Plan envisaging the details of the updated cost estimates for various mine closure activities and the Escrow Account already set up, shall be submitted to the approving authority for approval at least five years before the intended final closure of the mine.
- 2.10. Final Mine Closure would be considered to be completed only after acceptance of the third-party audit report by the Coal Controller on the compliance of all provisions of Mine Closure Plan. Any Institute/ Organization/Agency as may be specified by the Government for this purpose may be engaged for Third Party audit to create a self-sustained ecosystem. Failure of restoration within the specified period may result in forfeiture of Escrow Account created as per Para 2.6& 2.7. The details of the Final Mine Closure Plan along with the details of the updated cost estimate for various mine closure activities and escrow account already set up shall be submitted at the time of approval of final mine closure plan.
- 2.11. **Time Scheduling for abandonment:** The Action plan for carrying out all abandonment operations (progressive and final mine closure) should be furnished in the form of bar chart for a period of life of the mine plus post closure period. Post closure period shall be taken as3 (three) years for Underground mines and Opencast mines having stripping ratio lesser than 6(six) MM³/Te & 5 (five) years for mines having stripping ratio more than 6(six) MM³/Te.
- 2.12. **Implementation of the approved Mine Closure Plan shall be sole responsibility of the mine owner.** Mining is to be carried out in a phased manner i.e. continuation of mining activities from one phase to other indicating the sequence of operations depending on the geo-mining conditions of the mine. Up to 50% of the total deposited amount including interest accrued in the ESCROW account may be released after every five years in line with the periodic examination of the Closure Plan as per Para 2.2. The amount released should be equal to expenditure incurred on the progressive mine closure in past five years or 50% whichever is less. The balance amount shall be released to mine owner/leaseholder at the end of the final Mine Closure on compliance of all provisions of Closure Plan. This compliance report should be duly signed by the lessee and certify that said closure of mine complied all statutory rules, regulations, orders made by the Central or State Government, statutory organisations, court etc. and certified by the Coal Controller.
- 2.13. **Responsibility of the mine owner:** It is the responsibility of the mine owner to ensure that the protective measures contained in the mine closure plan including reclamation and rehabilitation works have been carried out in accordance with the approved mine closure plan and final mine closure plan.
- 2.14. The owner shall submit to the Coal Controller a yearly report before 1st July of every year setting forth the extent of protective and rehabilitative works carried cut as envisaged in the approved mine closure plans (Progressive and Final Closure Plans).
- 2.15. The money to be provided per hectare of total Project Area for the purpose is to be deposited every year on commencement of any development activity on the land for the mine after opening a Fixed Deposit Escrow Account prior to obtaining mine opening permission from Coal Controller. Mining company/owners including all Public Sector Undertakings shall deposit the yearly amount in a Scheduled Bank. If the Mine owners fail to deposit the required annual amount in accordance with Para 2.6, 2.7 & 2.8, the Government can withdraw the mining permission.
- 2.16. The funds so generated are towards the security to cover the cost of closure in case the mine owner fails to complete the relevant closure activities. The prime responsibility of mine closure shall always lie with the mine owner, and in case these funds are found to be insufficient to cover the cost of final mine closure including the areas covered in Para 2.3 2.6, 2.7, 2.8 & 2.9 above. The mine owner shall undertake to provide the additional fund equivalent to the gap in

funding before five years of Mine Closure failing which it may be recovered by such other methods as the competent authority may deem fit in this regard.

- 2.17. **Final Closure Certificate:** The Mine owner shall be required to obtain a mine closure certificate from Coal Controller to the effect the protective, reclamation, and rehabilitation work in accordance with the approved Mining plan covering final mine closure provisions/activities have been carried out by the mine owner for surrendering the reclaimed land to the State Government.
- 2.18. The balance amount at the end of the final Mine Closure shall be released to mine owner on compliance of all provisions of Closure Plan duly signed by the mine owner to the effect that said closure of mine complied with all statutory rules, regulations, orders made by the Central or State Government, statutory organizations, court etc. and duly certified by the Coal Controller. This should also indicate the estimated extractable coal reserves and coal actually mined out.
- 2.19. If the Coal Controller has reasonable grounds for believing that the protective, reclamation and rehabilitation measures as envisaged in the approved mine closure plan in respect of which financial assurance was given has not been or will not be carried out in accordance with mine closure plan, either fully or partially, the Coal controller shall give the mine owner a written notice of his intention to issue the orders for forfeiting the sum assured at least thirty days prior to the date of the order to be issued after giving an opportunity to be heard.

3. Formulation of Mining Plan by Qualified Person (QP) or Accredited Mining Plan Preparing Agency (MPPA):

- 3.1. System of granting Recognition to a person for preparation of mining plan u/s 22C of MCR 1960 & preparation of mining plan only by RQP u/s 22B of MCR 1960 shall be done away with, after commencement of the Mineral Concessions (Amendment) Rules, 2020.
- 3.2. After commencement of Mineral Concession (Amendment) Rule 2020, no mining plan shall be accepted unless it is prepared by Qualified Person (QP) or Accredited Mining Plan Preparing Agency (MPPA).
- 3.3. Quality Council of India (QCI) or National Accreditation Board for Education and Training (NABET) shall be engaged for accrediting following entities:
 - (i) Accredited Prospecting Agency (APA) for undertaking prospecting operations and preparation of geological reports for Coal and Lignite Mines, and
 - (ii) Mining Plan Preparing Agency (MPPA) for preparation of mining plan (for Coal, Lignite Mines and Sand for Stowing)
- 3.4. The Quality Council of India (QCI) or National Accreditation Board for Education and Training (NABET)shall grant accreditation in accordance with such standards and procedures as specified in schedule VI of Mineral Concession (Amendment) Rule 2020.
- 3.5. Qualified Agency (QP) or Mining Plan Preparing Agency (MPPA) who prepares mining plan for a block/mine, shall have recognition from the concerned company board that the qualification of the QP or accreditation of the MPPA has been duly verified and is in line with the relevant provision of the MCR 1960.

4 Submission, Processing and Scrutiny of Mining Plan

- 4.1 On and from the date of publication of order and upto the expiry of period of nine months from the commencement of the Mineral Concession (Amendment) Rules, 2020, every mining plan submitted for approval/modification shall be accompanied with a non-refundable application fee specified from time to time in this regard, for the project area specified in the mining plan.
- 4.2 On and from the expiry of period of nine months from the commencement of the Mineral Concession (Amendment) Rules, 2020, every mining plan submitted for approval/modification

shall be accompanied with a non-refundable application fee specified from time to time in this regard, for the project area specified in the mining plan and peer/expert review done by any accredited mining plan preparing or reviewing agency at their (applicant's) own cost. During examination of the Mining Plan by the internal committee of MoC, if it is felt that a review by expert or by specialized agency is required, the committee may recommend referring the mining plan to such expert/agency with the approval of the MP approving authority. Charges for the expert review shall be borne by the applicant.

- 4.3 All pages (including cover page, plates and Annexures) shall bear the signature & stamp furnishing details of the QP/Accredited Mining Plan preparing Agency (MPPA) in physical mode of submission and e-signature/digital signature during the online system of submission.
- 4.4 Ministry of Coal is in process of development of on-line portal for submission and approval of mining plan. system of acceptance of Physical copy shall be continued till the development/operationalization of online portal for submission and approval of mining plan.

4.4.1 **Submission to Physical Copy Mining Plan to Ministry of Coal:**

- 4.4.1.1 The project proponent shall submit one soft copy and four hard copies of Mining Plan (draft)one each to the concerned Administrative Section of the Ministry of Coal for the concerned block, Section of MoC/CCO dealing with approval of Mining plan, Coal Controller, CMPDIL/ Extended office of CCO & the dispatch receipt of the speed post (confirming that the draft Mining Plan has been sent). The contact details and correspondence address of the section dealing with the approval of Mining plan, administrative section for the mine, members of the committee etc. shall be updated time to time, on the website of the Ministry of Coal/Coal Controller Organisation.
- 4.4.1.2 The project proponent shall incorporate the observation (if any) and submit the mining plan (after incorporating the compliance to the observation) to section of MoC/CCO dealing with approval of Mining plan, concerned administrative section of the Ministry of Coal, Coal Controller and CMPDIL/ Extended office of CCO.
- 4.4.1.3 **Submission of Mining Plan (after incorporating compliance) to Ministry of Coal:** The project proponent shall submit 04 (Four) hard copies & 01 (one) soft copy of modified Mining Plan and the compliance to the observations along with copy of the dispatch receipt of the Speed Post (confirming that the modified Mining Plan has been sent to section of MoC/ CCO dealing with approval of Mining Plan, concerned administrative section of the Ministry of Coal, Coal Controller, and CMPDIL/ Extended office of CCO).
- 4.4.1.4 The procedure of submission at Para 4.3.1 will be replaced by process of submission at para 4.3.2 on development of portal for online submission and approval of Mining Plan.

4.4.2 **Online System of Submission of Mining Plan for Approval:**

- 4.4.2.1 Project proponent shall register online, using registered official mail ID.
- 4.4.2.2 For the purpose of preparation of Mining plan through a QP or MPPA, project proponent shall share a temporary login with QP/MPPA. This temporary login shall be valid till the preparation and approval of mining plan only.
- 4.4.2.3 The QP/MPPA shall upload the Mining plan through the temporary login and submit it to the project proponent; QP/MPPA once submits the mining plan to the project proponent, he shall not be able to modify.
- 4.4.2.4 The Project Proponent shall make payment of processing charges/fees online as specified from time to time by Ministry of Coal;
- 4.4.2.5 The Project Proponent shall after incorporating relevant company board approvals submit the mining plan to the Approving Authority; The mining plan submitted to approving authority shall become visible to Administrative Section for the respective block, section of MoC/CCO dealing

with approval of Mining plan, members of the Internal Committee, Coal Controller, CMPDIL/ Extended office of CCO, simultaneously. System of SMS alerts shall be available at all stages;

4.4.2.6 Observations of the Committee Members shall be uploaded online and the project proponent shall also submit Mining Plan, after incorporating compliance, online

5 Scrutiny & Processing of Mining Plan

- 5.1.1 The current system of getting the mining plan scrutinized through CMPDI, Ranchi shall continue. Ministry of Coal is in process of creating an extended office of Coal Controller Organization at Delhi which shall be delegated with the work of processing and scrutiny of mining Plan. A letter to this effect shall be issued separately.
- 5.1.2 CMPDIL/Extended office of CCO at Delhi shall scrutinize the mining plan and submit comments to section of MoC/CCO dealing with approval of Mining plan within Fifteen (15) days of receipt of the Mining Plan. Non-submission of comments within the stipulated time may be presumed as "no comment" from CMPDIL/Extended office of CCO; CMPDIL/ Extended office of CCO at Delhi, if consider necessary to make a physical verification of the site/site visit for scrutiny of the mining plan, may make such site visit/physical verification of the site, however, no relaxation in the time line as specified above may be given.
- 5.1.3 Administrative Section of the Ministry of Coal (dealing with the block) shall scrutinize the mining plan with respect to Vesting order/ allotment order and CMDPA signed with allottee at the time of allotment and submit observations to section of MoC/CCO dealing with approval of Mining plan (till the development of portal for Mining plan approval) within Fifteen (15) days of receipt of the Mining Plan. Non-submission of comments within the stipulated time may be presumed as "no comment" from the administrative section;
- 5.1.4 Members of the Internal Committee shall examine the mining plan from Technical and administrative angle based on the observations of the Administrative Section (dealing with the respective block) and CMPDIL/Extended office of CCO and the peer/expert review report submitted with the mining plan and submit observations to section of MoC/CCO dealing with approval of Mining plan (till the development of portal for Mining plan approval) within Fifteen (15) days of receipt of the Mining Plan. Non-submission of comments within the stipulated time may be presumed as "no comment" from the administrative section
- 5.1.5 Section of MoC/CCO dealing with approval of Mining plan shall communicate the observation (if any) to the project proponent for compliance till the development of online system for submission, processing, and approval of mining plan.
- 5.1.6 Subsequent, to development of online portal for submission, processing, and approval the observations of the internal committee members shall be uploaded directly on the portal, which will be visible to the project proponent. A timeline of 15 days shall be available for the internal committee members to upload the comments. Non-submission of comments within the stipulated time may be presumed as "no comment".

6 Timeline for submission of Compliance:

Once the observation of the Scrutiny of the mining plan is communicated either in hard copy, mail or online, the Project Proponent is required to submit the mining plan after incorporating the compliance to the observation within a period of 15 days of the communication, failing which the mining plan submitted for approval shall be rejected.

Provided that any such application may be entertained after the said period of 15 Days, if the applicant satisfies the approving authority that he had sufficient cause for non-submission of mining plan (after incorporating the compliance) in time. However, in any case this period may not be extended beyond 30 days from the date of receipt of communication of the observation.

7 Approving Authority:

- 7.1 On and from the date of publication of order and upto the expiry of period of nine months from the commencement of the Mineral Concession (Amendment) Rules, 2020, the powers to approve mining plan for all categories of coal and lignite mines and sand for stowing shall be exercisable by Project Adviser, Ministry of Coal.
- 7.2 On and from the expiry of period of nine months from the commencement of the Mineral Concession (Amendment) Rules, 2020, the power to approve mining plan for all categories of coal and lignite mines including sand for stowing shall be exercisable by the Coal Controller, CCO, Kolkata, a subordinate office of Government of India in the Ministry of Coal.
- 7.3 The person delegated to approval of Mining Plan under sub-section (1) of section 26 read with clause (b) of sub-section (2) of section 5 of the Mines and Minerals (Development and Regulation) Act, 1957 (67 of 1957) (hereinafter, the 'Act') may seek help of an Internal committee constituted for the purpose.
- 7.4 The approving authority shall dispose of the application for approval of the Mining Plans within a period of 30 days from the date of receiving of such application (The Mining Plan received on or before 30th of Current Month will be considered in the ensuing meeting). Provided that the aforesaid period of 30 days shall be applicable only if the Mining Plan is complete in all respect, and in case of any modifications subsequently suggested after the initial submission of the Mining Plan for approval, the said period shall be applicable from the date on which modified mining plan is re-submitted.

8 Internal Committee for Scrutiny of Mining Plan:

- 8.1 Members of the Internal Committee shall examine the mining plan from Technical and administrative angle based on the observations of the Administrative Section dealing with the respective block & CMPDIL/ Extended office of CCO.
- 8.2 The internal committee shall recommend the mining plan for "Approval" or "Rejection". In case of recommendation for Rejection, the committee shall record the reason for Rejection.
- 8.3 Till the opening of CCO office at Delhi, the internal committee shall consist of:
 - 1. Director (Technical), MoC, Member Secretary
 - 2. Director/ Deputy Secretary, MoC of the section dealing with the allocation/allotment of the respective block, Member
 - 3. Coal Controller or his representative, Member
 - 4. Director level officer of CMPDIL, Member
 - 5. Director/Deputy Secretary, Nominated Authority, Member
- 8.4 After opening of CCO office at Delhi, the internal committee shall consist of:
 - 1. Director level officer of CCO having relevant working experience., Member
 - 2. Director/ Deputy Secretary of the section dealing with the respective block, Member
 - 3. Head of Regional Coal Controller Office (having relevant working experience in mine planning), CCO Regional Office New Delhi, Member Secretary
 - 4. Any other technical person having working experience of not less than 15 (fifteen) years in mine planning, Member

9 Communication of Approval:

9.1 In case of allotted/auctioned mine, section dealing with approval of Mining Plan shall communicate the decision of the approving authority within a period of 5 (five) working days in form of a letter confirming "in-principle approval" of the Mining Plan to the project proponent

with a copy of the same to the Nominated Authority, Govt. of India. Final approval of the Mining Plan in such cases shall be communicated by the section dealing with approval of Mining Plan, only on receipt of applicable payments and its confirmation from the Nominated Authority, Govt. of India.

9.2 While for mines other than auctioned/allotted mines, section dealing with approval of Mining Plan shall communicate the decision of the approving authority within a period of 5 working days.

10 Revision:

- 10.1 Any person aggrieved by any order made or direction issued in respect of mining plan by an officer competent to approval mining plans shall within 30 days of the communication of such order or direction, apply to the Secretary (Coal), Ministry of Coal for a revision of such order or direction thereon.
- 10.2 On receipt of any application for revision the authority shall give the aggrieved person a reasonable opportunity of being heard and may within 30 days confirm, modify or set aside the order or direction and his decision thereon shall be final.
- **11 This Guideline** supersedes the previous orders and are without any prejudice to any other relevant rules and regulations, such as those issued by the State Governments, Ministry of Environment, Forest and Climate Change, Ministry of Labour and Employment, etc.

(Hitlar Singh) Under Secretary to the Government of India

To,

All the existing Coal and Lignite block allocates

Copy to: -

- 1. All Joint Secretaries, MoC.
- 2. Coal Controller, Coal Controller's Office, 1- Council House Street, Kolkata.
- 3. CMD, CIL, Newtown, Rajarhat, Kolkata-700156, W.B
- 4. CMD, NLCIL, Cuddlore, Distt. Neyveli- 607801 (Tamil Nadu).
- 5. CMD, Singareni Collieries Company Limited (SCCL), Kothagudem Collieries, Khammam Distt.(A.P).
- 6. Tech. Director (NIC) with the request to place it to Website of the Ministry of Coal.

DETAILS TO BE FURNISHED IN THE MINING PLANS FOR COAL/LIGNITE BLOCKS

A. Cover Page

The Cover page should contain the following information:

- (i) Name of the Mining Plan and Mine Closure Plan /Final Mine Closure Plan
- (ii) Indication, if it is a Modified Mining plan seeking approval under Rule 22E of MCR 1960, it should be marked as "Modified Mining Plan with Modification No" i.e. First Modification, Second Modification etc.
- (iii) Name of the Coal/Lignite Block area (Acre/Hectare/Sq. Km.)
- (iv) Name of the Coalfield and its location i.e. District and State
- (V) Name and address of the Applicant
- (vi) Targeted capacity
 - a. Rated capacity : ____Mty)
 - b. Peak Capacity (@ 150% of the rated capacity) : in _____Mty,
- (vii) Name of the **Qualified person/ Accredited Mining Plan preparing agency** (**MPPA**)preparing the mining plan with details

B. Index of Chapters of the Mining Plan (Including Mine Closure Plan) / Mine Closure Plan or Final Mine Closure Plan

Sl No.	Chapters	Page No
1	Checklist	
2	Project Information	
3	Exploration, Geology, Seam Sequence, Coal Quality and Reserve	
4	Mining	
5	Safety Management	
6	Infrastructure Facilities proposed and their Location	
7	Land Requirement	
8	Environment Management	
9	Progressive & Final Mine Closure Plan	

C. Index for List of Annexure

D. Index of List of Plans/ Drawing Attached enclosed as Plates

E. List of Abbreviations used.

CHECKLIST

	Details	(✔ / ¥)		
	Expert-review Report			
Text	Project Information			
Text	Exploration, Geology, Seam Sequence, Coal Quality and Reserve			
Text	Mining			
Text	Safety Management			
Text	Infrastructure Facilities proposed and their Location			
Text	Land Requirement			
Text	Environment Management			
Text	Progressive & Final Mine Closure Plan			
Annexure	Copy of allotment order /Vesting order.			
Annexure	Certificate of Qualified person/ Accredited Mining Plan preparing agency (MPPA)if the project area is confined within the vested/allotted block boundary/existing mining lease and Where the project area extends beyond the block boundary, a certificate of Qualified person/ Accredited Mining Plan preparing agency (MPPA)should be supported with a certificate of State Government mines and Geology department must be attached, which should specify (a) intent of the state government for grant of lease beyond the vested geological boundary/existing mining lease; (b) non- existence of Coal/ Lignite in the area beyond the vested/allotted geological block boundary/existing mining lease to rule out the issue of encroachment and use of coal bearing area (beyond the vested/allotted block boundary/existing mining lease) in the mining plan			
Annexure	Approval of the Company Board			
Annexure	Copy of earlier approval of mining plan.			
Annexure	Plan / chart showing schedule of Implementation of Mine closure activities (progressive and final closure) with duration of important activities			
Annexure	Expert-Review Report carried out be an Accredited Mining Plan Preparing Agency (MPPA)			

	Details	(✔ / ★)
Annexure	Other document (if any)	
Plates	Location plan	
Plates	Plan certified by Qualified person/ Accredited Mining Plan preparing agency (MPPA)if the project area is confined within the vested/allotted block boundary/existing mining lease and where the project area extends beyond the block boundary, a Plan certified by Qualified person/ Accredited Mining Plan preparing agency (MPPA)should be supported with a plan with cardinal co- ordinates duly certified by the Mines and Geology Department of the concerned State Government.Plan in support of Annexure - II	
Plates	Printed copy of the KML file superimposed in the recent (not older than one year from the base date) dated satellite Image duly certified by Accredited Agency should also be attached.Note: The soft copy of the KML file shall also be part of the Soft copy of the mining Plan.	
Plates	Cadastral plan showing approved block boundary vis-à-vis proposed/existing mining lease & Mine boundary superimposed over it in distinct color, showing land use and infrastructure etc	
Plates	Geological plan showing all the boreholes drilled and proposed to be drilled showing allotted block boundary and required lease area	
Plates	Representative Graphic Litholog	
Plates	Surface Plan showing drainage system, Contour, preferably at 3m interval, location of BH (borehole)	
Plates	Conceptual plan showing infrastructure facilities including colony, boundary of mining area, mine entries, roads including road diversion alignment etc.	
Plates	Tentative land use plan showing land type (Govt., forest and tenancy land) with its data source	
Plates	Floor contour plan and seam folio plan, iso-grade plan	
Plates	Cross-section showing coal/lignite seam(s)	
Plates	Plan showing existing and proposed surface layout(s)	
Plates	Plan showing total coal thickness and overburden thickness and stripping ratio (in case of opencast (OC) Mines)	
Plates	Final stage quarry plan showing haul road alignment (in case of OC Mines)	

	Details		
Plates	Plan showing mode and location of entries and surface layouts (in case of underground (UG) Mines)		
Plates	Layout of the panel for each system (like Longwall, Continuous Miner, Bord& Pillar, road header etc.) should be given (in case of UG Mines)		
Plates	Layout of pillar extraction (in case of UG Mines)		
Plates	Support system (in case of UG Mines)		
Plates	Haulage and transport system (in case of UG Mines)		
Plates	Post mining land use plan		
Plates	Progressive mine closure plan/ stage plans		
Plates	Reclamation plan		

Chapter 1 : Project Information

	Parameters	Details
1.1	INTRODUCTION	
1.1.1	Name of Coal / Lignite	
1.1.1	Block	
1.1.2	Name of the Coalfield/	
1.1.2	Lignite Field	
1.1.3	Base date of Mining Plan/	
1.1.5	Mine Closure Plan	
1.1.4	Linked End Use Plant	
	Distance of End use plant	
1.1.5	from the pit head of the	
	project in "km"	
1.1.6	Mode of Coal Transport	

1.2 LOCATION, TOPOGRAPHY AND & COMMUNICATION

1.2.1	Location of coal deposit (District and State)	
1.2.2	Communication: PWD	
1.2.3	roads, railway lines, Air Availability of power supply, water etc.	
1.2.4	Prominent physiographic features, drainage pattern, natural water courses, rainfall data, highest flood level	
1.2.5	Important surface features within the project area and major diversion or shifting involved	

1.3 DETAILS OF THE ALLOTTMENT AGREEMENT

1.3.1	Name the Allottee	
1.3.2	Details of	
1.3.2	allotment/vesting order	
1.3.3	Name and address of the	
1.5.5	applicant	
1.3.4	Name of the Previous	
1.5.7	allottee of the Block	
1.3.5	Starting Date of the Mine	
1.5.5	as per CMDPA	
1.3.6	Rated Capacity as per	
1.5.0	CMDPA	
	Production Schedule as per	
1.3.7	opening permission	
1.5.7	(meeting provisions of	
	CMDPA if any)	
1.3.8	End Use of Coal/Lignite as	

	Parameters	Details			
	per allotment order if any				
1.3.9	Cardinal Points co- ordinates of the Block boundary	ID 1 2	Latitude <u>° ' " N</u> <u>° ' " N</u> <u>° ' " N</u> <u>° ' " N</u>	Longitude 	

1.4 DETAILS OF THE PREVIOUS APPROVAL OF MINING PLAN

1.4.1	Date of Approval					
1.4.2	Conditions, if any					
1.4.3	Scheduled year of start of					
	production					
1.4.4	Proposed year of achieving					
	the targeted production					
1.4.5	Date of actual					
	commencement of mining					
	operations, if operations					
	already started					
1.4.6	Likely date of mining					
	operations, if operations					
	not yet started & reasons					
	for non-commencement of					
	operations					
1.4.7	Planned production and				-	
	actual levels achieved in	Year	Coal '	'Mte"	OB	SR
	last 3 years (Coal in Mte,		UG	OC	MM ³	"MM ³ /te"
	OB in MM ³ , SR in					
	MM ³ /te)					
1.4.8	Statutory obligations vis-					
	à-vis compliance status in					
	a tabular form					
1.4.9	Reasons for difference					
	between the planned and					
	actual production levels					

1.5 PARAMETERS OF APPROVED MINING PLAN VIS-À-VIS PROPOSED MINING PLAN

		Approved Mining Plan	Proposed Mining Plan
1.5.1	Block Area in "Ha"		
1.5.2	Block Area Projectised		
	"Ha"		
1.5.3	Lease area "Ha"		
1.5.4	Project Area "Ha"		
1.5.5	Life of the Project "Yrs"		
1.5.6	Minimum and Maximum		
	Depth of working "m"		

	Parameters	Details
1.5.7	Net Geological Block "Ha"	
1.5.8	Production Target "MTPA"	
1.5.9	Seams Available "As per GR"	
1.5.10	Seams not considered for Mining with Reasons	
1.5.11	Gross Geological Reserve "Mt"	
1.5.12	Net Geological Reserve "Mt"	
1.5.13	Blocked Reserve "Mt"	
1.5.14	Minable Reserve "Mt"	
1.5.15	Extractable Reserves "Mt"	
1.5.16	% of Extraction/ recovery	
1.5.17	Reserve Depleted (till the base date) Reserves "Mt"	
1.5.18	Balance Extractable reserve "Mt"	
1.5.19	Average Grade	
1.5.20	OB in MM3	
1.5.21	SR MM3/te	
1.5.22	Mining Technology	
1.5.23	Coal Beneficiation	
	envisaged	
1.5.24	Handling of Rejects	
1.5.25	Land use pattern "Ha"	
1	Excavation Area	
2	Top Soil Dump	
3	External Dump	
4	Safety Zone	
5	Other Use	
6	Infrastructure area	
7	Green Belt	
8	Undisturbed Area	
	Total	
1.5.26	Reasons for revision	

Chapter 2 : Exploration, Geology, Seam Sequence, Coal Quality and Reserve

	Parameters		Details
2.1	DETAILS OF THE BLOCK	I	
2.1.1	Particulars of adjacent blocks: North, South, East, West	North : South:	East: West:
2.1.2	Location of the Block District / State	South	West
2.1.3	Area of the Block "Ha"		
2.1.4	Area of the geological block projectized "in Ha" (Area of the geological block considered for liquidation of coal reserve)		
2.1.5	Balance area yet to be projectized "Ha"		
2.1.6	Likely Reserve in the area yet to be projectized "Mte"		
	Cardinal Point Co-ordinates of the non- coal/lignite bearing area/existing mining lease outside the allotted Geological Coal/Lignite block	Proposed	al Points Co-ordinates of the area outside the _non-coal/lignite ea outside the allotted Geological Coal/Lignite block
2.1.7	(Duly certified in line with para 1.9 of the Guideline, if fresh inning lease required)	ID 1 2	Latitude Longitude • "N • "E • "N • "E
	Certificate of Qualified person/ Accredited Mining Plan preparing agency (MPPA)if the project area is confined within the vested/allotted block boundary/ <u>existing</u> <u>mining lease</u> and Where the project area extends beyond the		al Points Co-ordinates of thed LeaseArea considered in theMining PlanLatitudeLongitude• ' 'N • ' 'E• ' N • ' 'E
2.1.8	block boundary, a certificate of Qualified person/ Accredited Mining Plan preparing agency (MPPA) should be supported with a certificate of State Government mines and Geology department must be attached, which should specify (a) intent of the state government for grant of lease beyond the vested geological boundary; (b) non-existence of Coal/ Lignite in the area beyond the vested/allotted geological block boundary/ <u>existing mining lease</u> to rule out the issue of encroachment and use of coal bearing area (beyond the vested/allotted block boundary/ <u>existing mining lease</u>) in the mining plan	Note: Cer conceptual mining plan locations an lease area, b In case the the allotted mining leas coal should	tificate should be given on plan envisaged in the proposed depicting OB area, infrastructure d cardinal point co-ordinates of the lock area, project area; project boundary extends beyond geological block boundary/ <u>existing</u> <u>se</u> certificate of non-occurrence of be clearly shown. should envisage that the Geo- Co-ordinates considered for
	The Project area, Lease area and geological block area in "Ha" shall also be envisaged.	preparation	Co-ordinates considered for of Mining plan is in line with tment order and does not encroach

	Parameters	Details
		any other adjacent block, and non-coal bearing certificate of the area in case any proposed infrastructure or OB dump is outside the block area;
2.1.9	KML file of the Proposed lease area, Project Area and geological block.	Note: Printed copy of the KML file superimposed in the recent (not older than one year from the base date) dated satellite Image duly certified by Accredited Agency should also be attached.
		Note: The soft copy of the KML file shall also be part of the Soft copy of the mining Plan.
	Whether the proposed project area is confined	
2.1.10	within the allotted block boundary/existing	
2.1.10	mining lease, if not, the reason for deviation	
	from allotted block boundary, may be given.	
	If the project area extends outside the allotted	
0.1.11	block boundary/existing mining lease,	
2.1.11	confirmation about non-occurrence of	
	coal/lignite in the area under reference needs	
	to be furnished	
2.1.12	Type of the Project (Operating / under	
	Implementation) and year of Starting.	
2.2	EXPLORATION, GEOLOGY AND ASSES	SMENT OF RESERVE
2.2.1	Regional geological set up of the area, local	
	geology, structure, stratigraphic sequence,	(In Maximum 500 Words)
	characteristics of the litho-logical units (coal	
	seams /partings/overburden).	
2.2.2	Local geology, Structure, Stratigraphic	
	sequence, Characteristics of the litho-logical	(In Maximum 500 Words)
	units (coal seams /partings/overburden).	
2.2.3	Geological Block Area "Ha"	
2.2.4	Status of Exploration of the block	
2.2.5	Area covered by 'detailed' exploration within	
	the block (sq. km)	
2.2.6	Whether entire lease area has been covered by	
0.07	'detailed' exploration.	
2.2.7	No. of boreholes drilled within the block	
2.2.8	Whether any further exploration/study is	
	required or suggested and time frame in which it is to be completed	
220	which it is to be completed	
2.2.9	Year wise future programme of exploration Overall borehole density within the block	
2.2.10	(no./ sq. km) approx	
2.2.11	No of Seams available as per GR (Geological	
2.2.11	Report)	
2.2.12	Seams not considered for Mining with	
<i>2.2.12</i>	Reasons	
2.2.13	Dip of the Seam	
2.2.13	Seam wise thickness, depth and reserve	1
<i>2.2.</i> 17	South who unexhead, deput and teserve	

	Parameters	Details			
	Seam Thickness Depth Net Blocked Reserve Beam Range 'm' Res "Me" Batter River/Road Barrier Seam Eam Eam </th <th>Delow Min Res " Mte" Un- economi Total Blocked uc oc Mining losses</th>	Delow Min Res " Mte" Un- economi Total Blocked uc oc Mining losses			
	p				
	Seam Ext Res "Mte" Depletion of Reserve At Seam UG OC Highwall UG OC Highwall Seam Image: Seam	en base date "Mte" Reason not Balance Reserve UG OC Highwali Total mining			
	Seam Seam For the secole sized measure for the				
		e block, considered in the proposed mining plan, the d to be given seam wise along with the relevant			
2.2.15	Methodology of reserves estimation (also mention if any software package has been				
2.2.16	used). Average GCV "KCal/kg"				
2.2.17	Gross Geological Reserve of the block "Mte"				
2.2.18	Net Geological Reserve of the block "Mte"				
2.2.19	Minable Reserve of the block "Mte"				
2.2.20	Blocked Reserve "Mte				
2.2.21	Corresponding extractable reserve of the block "Mte"				
2.2.22	Percentage of Extraction				
2.2.23	Reserve already depleted (Base date of				
	Mining Plan)				
2.2.24	Balance Reserve (as on Base Date)				

Chapter 3: Mining

	Parameters	Details
3.1	MINING METHOD	
3.1.1	Existing method of mining if the mine is under	
3.1.2	operation Proposed method of mining with justification on suitability of method of mining	 Seams to be worked, Choice of Mining Method and justification for Optimization of targeted capacity, sequence of mining, production scheduling, equipment configuration etc. Behavior of coal roof & floor and support system for strata control including, Geo-technical investigations, rock mechanics study carried out already, if any, Scheme of mine development in tandem with production, transport and winding system in underground for coal and rock (if required) and personnel; Sources of stowing material (if applicable) Brief description of all operation e.g. winning, transport, blasting, overburden removal and disposal, Life of the mine furnishing the assumptions made and the detailed computations Location of Mine Opening: In case of opencast mines location of Access trench & reason for selection of site thereof the mining system (geometry and bench parameters and its sequence of development, along with a drawing) and quarry parameters (surface area, floor area), thickness range of each seam and parting, minimum and maximum depth. Quarry stage plans including OB dumps for 1st year, 3rd year, 5th year, year of achieving rated capacity of the mine, Final year (i.e. at the end of mine life) and post closure subsequently, also indicating the volume of excavation for coal and OB, area of excavation volume of internal and external dumps and height. Seam wise calendar programme of excavation, timeframe for commencement of Backfilling & justification therefor. In case of underground mining, number and location, length & depth of shafts, inclines, and other mode of entries to be shown in the plan, e.g. Shaft 1, Shaft -2 etc.), HFL of the area, gassiness of the seams, Technology tie-ups if any. Seams to be worked, method of working optimization of coal roof & floor and support system for strata control including, Geo-technical investigations, rock mechanics study carried out already, if any, Scheme of mine development in tandem with production, extent of working for 1st y

	Parameters				Details		
			specifica requirem	ents and ments and stan	Iain Mechar requirement dby arrangen	nical Ventilat of explosive nents.	
3.1.3	Coal production ca	nacity		(In Ma	aximum 2000	J Words)	
5.1.5	proposed "Mtpa"	puerty					
3.1.4	Justification optimization production capacity	for Coal		(In M	laximum 500	Words)	
3.1.5	Calendar year from the production will s						
3.1.6	Year of Achieving production	rated					
3.1.7	Tentative Coal produ	iction P	lan "MT"				
	Year		Coall	Production Sc	hadula		
		endar				OB	SR
		ear	UG	OC	Total	"MM3"	SIC
	Up to 31.03.202	19					
	Y-1 201	9-20					
	Y-2						
	Y-3						
	Y-4						
	Y-5						
	Note: Calendar Pla	n / Prod	luction Plar	, for the enti	re life of the	mino	
3.1.8	Rated Capacity "M				ie me or the	mme.	
5.1.0	- By OC	tpa					
	- By UG - Overall						
3.1.9	Life of the mine: "Y	'ears"					
	- By OC						
	- By UG						
	- Overall						
3.1.10		posed					
	external OB dump						
	coal/ lignite bearing:						
	whether coal/lignite waste disposal ar						
	extractable.						
3.1.11		roving					
	for coal / lignite in the						
	proposed site for						
	dump/ infrastructur						
	been done.						
3.1.12	Results of	any					
	investigation carrie						
		nining,					
	conservation of mi and protection	inerals of					
	and protection	01					

	Parameters	Details
	environment; future proposals.	
3.1.13	Type of Equipment/ HEMM proposed	

Chapter 4	:	Safety	Management
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	Parameters	Details
4.1	Safety Management	
4.1.1	Importantsafetyaspects:MajorNajorRisksanduncertaintiestotheprojectviz.Proximitytoriver,adjacentworking,geo-miningdisturbances,slopestabilityandremedialmeasuressuggested.	(In Max 500 Words)
	It should also include proposed overall slope of the quarry and OB dump, dump height, strata control, fire and spontaneous heating, gas monitoring, disaster management, danger from inrush of water etc.	
4.1.2	A Commitment from the Company Board that entire mining operation will be carried out as per the Statutory provision given under Mines Act 1952, Coal Mine Regulation 2017 and & wherever specific permission will be required the company will approach the concerned authorities.	(To be furnished as a Part of Annexure)

Chapter 5 : Infrastructure Facilities

	Parameters	Details
5.1	Mine infrastructure required e.g. Equipment maintenance planning, Office buildings, Workshop, Power supply arrangement, Water supply etc.	(Tabular Form) (Location to be shown in Conceptual Plan/Plates)
5.2.	Power supply & illumination.	(Max 500 Words) (Location to be shown in Plates)
5.3	Drainage & Pumping : Assessment of Volume of Water for Pumping, Pumping Capacity and Pump Selection	(Max 500 Words) (Location to be shown in Plates)
5.4	Coal Handling Arrangement: Brief detail of the CHP/ Mode of Dispatch, Coal quality and Coal staking and handling arrangement	(Max 500 Words) (Location to be shown in Plates)
5.5	Coal washing and the proposed handling/ disposal of rejects.	(Max 500 Words) (Location to be shown in Plates) Annual Raw coal Feed plan and product with reduction in ash% from feed to product must be furnished in a tabular form

Chapter 6 : Land Requirement

	Paramet	Details										
6.1	LAND REQUIREMENT											
			Break	k up of p	re-mini	ing	land	type (indic	cative) and s	ource of	f data.
			Land Type Area									
					Lai		gricultural		Area			
				-			wnship					
								azing				
				Т	enancy	,		rren				
					enancy			ater Bodies				
	Total Land requ	irement for					Ro		.1			
6.1.1	the mine in "Ha"						Co use	mmunity/o	ther			
								 ricultural				
				G	ovt Noi	n		wnship				
					Forest			azing				
								rren/other ι	ise			
					Forest		-	eserve				
							Protected					
				Free	eHold							
				Tot								
	During mining L	and use deta	ils:	100								
				Land Use (Post Closure)								
	Туре	Land use (Proposed)	(End of	Agricul	Plant	W	ater	Public/	Fore	st Land	Undist	
				tural land	ation		ody	Company Use		turned)	urbed	Total
	Excavation Area											
	Backfilled Area											
	Excavated Void											
	Without plantation											
	Top Soil Dump											
6.1.2	External Dump											
	Safety Zone Haul Road											
	between quarries											
	Road diversion											
	Diversion/ below River/Nala/canal											
	Settling pond											
	Road & Infrastructure area											
	Rationalization area											
	Garland drains											
	Embankment											

	Parameters	Details			
	Green Belt				
	Water Reservoir				
	near pit				
	UG entry				
	Undisturbed/				
	Mining right for UG				
	Resettment Pit head power				
	plant				
	Water harvesting				
	Agricultural land				
	Total				
6.1.3	Surface features over the				
	block area				
6.1.4	No. of villages/Houses to be				
	shifted				
6.1.5	Population to be affected by				
	the project				
6.1.6	Proposed Rehabilitation				
	programme				
6.2	DETAILS OF LEASE				
6.2.1					
6.2.2	Existing Lease Area "Ha"				
6.2.3	Period for which Mining				
	Lease has been granted/is to				
	be renewed/ is to be applied				
60.4	for.				
6.2.4	Date of expiry of earlier				
()5	Mining Lease, if any				
6.2.5					
	boundary/ required				
	boundary is same as				
	mentioned in the allotment				
626	order				
6.2.6	Lease Area (applied/				
	required) as per the Mining Plan under consideration				
	(Ha)				
6.2.7	Whether the applied lease				
0.2.1	area falls within the allotted				
	block				
6.2.8	Area (Ha) of lease which				
0.2.0	falls outside the delineated				
	Block Boundary/Existing				
	Mining Lease				
6.2.9	Details of outside area:				
0.2.7	□ Whether forms part of				
	any other coal block				
	\Box Whether it contains				
	any coal/lignite reserves				
	 Purpose for which it is 				

	Parameters	Details
	required, e.g. roads/	
	OB dumps/ service	
	buildings/ colony/ safety	
	zone/ others (specify)	
6.2.10	Whether some part(s) of	
	the allotted block has not	
	been applied for mining	
	lease.	
	- Total area in Ha of	
	such part(s).	
	- Total reserves in such	
	part(s). (Mt)	
	- Brief reasoning for	
	leaving such part(s)	

Chapter 7 : Environmental Management

	Parameters	Details			
7	ENVIRONMENTAL MANANGEMENT				
7.1	Commitment from the project proponent that the company will comply Environment and Forest Condition stipulated in the respective clearances				

	Parameters				Details						
8.1	Land De	gradatio	on and rest	oration Scl	nedule						
	Tentative Land Degradation and Technical Reclamation (Commutative Area "Ha")										
	V	1C 4 - - - -		Land Deg	raded		Technically Reclaimed Area				
	Year/Stage (Life of the mine plus post closure period)		Excav	1	Infra/ others	Total	Backfill	Dump (Extn + Top Soil)	Others	Total	
	-	Base ar *									
8.1.1	Y-1 Y-3 Y-5 Y-10 Y-15 Y-20 Y-25 Y-30 Y-33* Post C Y-36	19-20 21-22 23-24 28-29 33-34		.e. 2018-19	and life		a in this of				
	Note: Fo life of m should be Stages o	r the pur ine and e consid	rpose of prose of prose of accepted as 1 st nation and	eparation of ount, the ye year i.e Fir s	Stage pl ar in whi st year of of land	an and acti ch any act f developn should be	ion plan f ivity over nent. given fo	or restorating the proposition 1^{st} , 3^{rd} ,	on and assessed land is en 5^{th} and subs	nvisaged,	
				nation (Cur							
	Year/Se (Life of mine p post closu period	f the olus t A re d)	B	iologically Plantation	Water	ed Area Public/ Company Use	y Total	Forest land (Return)	Un Disturbed/ To be left for Public/com Use	Total	
8.1.2											
	Y-10 Y-15	23-24 28-29 33-34									
	Y-20				1						

Chapter 8 : Progressive & Final Mine Closure Plan

	Parameters			Details								
	Y-25											
	Y-30											
	Y-33*											
	Pos											
	Closu	ire										
Į												
							should be g ad for 3 year			5^{th} ar	nd sub	sequentl
	Post	Closur	•• W	ater			(Ma	x 200 W	ords)			
	Quality			atti	(Existing	water bo	odies availa	ble in th	e lease h	nold ar	rea; Me	asures t
	2	8			be taken	for prot	tection of t	he same	includi	ng con	ntrol of	erosior
					sediment	ation, sil	tation, wate	er treatm	ent, dive	ersion	of wat	er cours
							for protect					
					from lead						C	
-	Post Cl	osure	Air Qua	ality		0		x 200 W	(ords)			
]	manage	ment					(1714		U U U U			
	Waste Management (Figures in MM3) (Tentative)											
	waste n	lanage	ment (F	1gures	s in MM3)	(Tentativ	ve)					
- -												
	Year/	Stage	OB Re	mova	ıl	Exte	ernal Dump		Internal			nkment
	Year/ (Life	Stage of the		mova	ıl	Exte		Ba	ackfilling	5		nkment Ilative)
	Year/ (Life mine	Stage of the plus	OB Re (Cumu	mova lative	ll >)	Exte (Cu	ernal Dump imulative)	Ba (Cu	ackfilling Imulative	g e)	(Cumu	lative)
	Year/ (Life mine post cl	Stage of the plus losure	OB Re (Cumu Top	mova	ll >)	Exte (Cu Top	ernal Dump imulative)	Ba (Cu Toj	ackfilling umulative D Ol	g e) B	(Cumu Top	
	Year/ (Life mine post cl peri	Stage of the plus losure od)	OB Re (Cumu	mova lative	ll >)	Exte (Cu	ernal Dump imulative)	Ba (Cu	ackfilling umulative D Ol	g e) B	(Cumu	lative)
	Year/ (Life of mine post c.) peri Up to yea	Stage of the plus losure od) Base rr *	OB Re (Cumu Top	mova lative	ll >)	Exte (Cu Top	ernal Dump imulative)	Ba (Cu Toj	ackfilling umulative D Ol	g e) B	(Cumu Top	lative)
	Year/ (Life of mine post ci peri Up to yea Y-1	Stage of the plus losure od) Base	OB Re (Cumu Top	mova lative	ll >)	Exte (Cu Top	ernal Dump imulative)	Ba (Cu Toj	ackfilling umulative D Ol	g e) B	(Cumu Top	lative)
	Year/ (Life mine post cl peri Up to yea Y-1 Y-3	Stage of the plus losure od) Base r * 19-20 21-22	OB Re (Cumu Top	mova lative	ll >)	Exte (Cu Top	ernal Dump imulative)	Ba (Cu Toj	ackfilling umulative D Ol	g e) B	(Cumu Top	lative)
	Year/ (Life mine post c peri Up to yea Y-1 Y-3 Y-5	Stage of the plus losure od) Base rr * 19-20 21-22 23-24	OB Re (Cumu Top	mova lative	ll >)	Exte (Cu Top	ernal Dump imulative)	Ba (Cu Toj	ackfilling umulative D Ol	g e) B	(Cumu Top	lative)
	Year/ (Life mine post c. peri Up to yea Y-1 Y-3 Y-5 Y-10	Stage of the plus losure od) Base r * 19-20 21-22 23-24 28-29	OB Re (Cumu Top	mova lative	ll >)	Exte (Cu Top	ernal Dump imulative)	Ba (Cu Toj	ackfilling umulative D Ol	g e) B	(Cumu Top	lative)
	Year/ (Life mine post c peri Up to yea Y-1 Y-3 Y-5 Y-10 Y-15	Stage of the plus losure od) Base rr * 19-20 21-22 23-24	OB Re (Cumu Top	mova lative	ll >)	Exte (Cu Top	ernal Dump imulative)	Ba (Cu Toj	ackfilling umulative D Ol	g e) B	(Cumu Top	lative)
	Year/ (Life of mine) post co peri Up to yea Y-1 Y-3 Y-5 Y-10 Y-15 Y-20	Stage of the plus losure od) Base r * 19-20 21-22 23-24 28-29	OB Re (Cumu Top	mova lative	ll >)	Exte (Cu Top	ernal Dump imulative)	Ba (Cu Toj	ackfilling umulative D Ol	g e) B	(Cumu Top	lative)
	Year/ (Life - mine post c2 peri Up to yea Y-1 Y-3 Y-5 Y-10 Y-15 Y-20 Y-25	Stage of the plus losure od) Base r * 19-20 21-22 23-24 28-29	OB Re (Cumu Top	mova lative	ll >)	Exte (Cu Top	ernal Dump imulative)	Ba (Cu Toj	ackfilling umulative D Ol	g e) B	(Cumu Top	lative)
	Year/ (Life of mine) post conservation Up to year Y-1 Y-3 Y-5 Y-10 Y-15 Y-10 Y-25 Y-20 Y-25 Y-30	Stage of the plus losure od) Base r * 19-20 21-22 23-24 28-29	OB Re (Cumu Top	mova lative	ll >)	Exte (Cu Top	ernal Dump imulative)	Ba (Cu Toj	ackfilling umulative D Ol	g e) B	(Cumu Top	lative)
	Year/ (Life - mine post c. peri Up to yea Y-1 Y-3 Y-5 Y-10 Y-15 Y-10 Y-15 Y-20 Y-25 Y-30 Y-33*	Stage of the plus losure od) Base r * 19-20 21-22 23-24 28-29 33-34	OB Re (Cumu Top	mova lative	ll >)	Exte (Cu Top	ernal Dump imulative)	Ba (Cu Toj	ackfilling umulative D Ol	g e) B	(Cumu Top	lative)
	Year/ (Life of mine) post conservation Up to year Y-1 Y-3 Y-5 Y-10 Y-15 Y-10 Y-25 Y-20 Y-25 Y-30	Stage of the plus losure od) Base r * 19-20 21-22 23-24 28-29 33-34	OB Re (Cumu Top	mova lative	ll >)	Exte (Cu Top	ernal Dump imulative)	Ba (Cu Toj	ackfilling umulative D Ol	g e) B	(Cumu Top	lative)

1	Paramet	ters			Details						
8.5	Top Soil Manag	ement – (In	cluding Action	plan for Top	o Soil managem	ent) (Ten	tative)				
	(All Figures are Cumulative and in MM3)										
	Year/Stage	Top Soil	Top Soil Used								
	(Life of the mine plus post	Removal Plan	Spreading Over	Spreading over	Spreading over External	Used in Green	Total Utilised				
	closure period)		Embankment	Backfill area	OB Dump area	Belt area					
	Up to Base year *			lineu							
	Y-1 19-20										
I	Y-3 21-22 Y-5 23-24										
	Y-10 28-29										
l	Y-15 33-34										
	Y-20										
	Y-25										
	Y-30										
	Y-33*										
	Post Closure										
	Y-36										
	Stages at 1 st , 3 rd , 5 th and subsequently every five year for the entire life of the project and for 3 years post closure										
			sequently ever	y five year fo	or the entire life	e of the pr	oject and fo				
8.6		re	osequently ever		or the entire life		oject and fo				
8.6	years post closu Management of	re		(N	fax 150 Words))					
8.6	years post closu Management of	re	Proposal rega	(N arding future	Aax 150 Words) e maintenance a)					
8.6	years post closu Management of	re Coal Land used	Proposal rega structures, sh (Infrastructure presented in a physical stabi	(N arding future urry pond an to be reta tabular form	Aax 150 Words) e maintenance a) and disma e dismant sures to be	ntling of led are to taken for th				
	years post closu Management of Rejects. Restoration of	re Coal Land used	Proposal rega structures, sh (Infrastructure presented in a	(N arding future urry pond an to be reta tabular form	fax 150 Words e maintenance and rejects ined and to b envisaging mea) and disma e dismant sures to be	ntling of led are to taken for th				
8.7	years post closu Management of Rejects. Restoration of for Infrastructu Disposal of	re Coal Land used re Mining	Proposal rega structures, sh (Infrastructure presented in a physical stabi facilities) Measures to	(N arding future urry pond an to be reta tabular form lity and mai be implen	fax 150 Words e maintenance and rejects ined and to b envisaging mea	and disma e dismant sures to be ne retained went acce	ntling of led are to taken for th l infrastruct				
8.7	years post closu Management of Rejects. Restoration of for Infrastructu Disposal of Machinery	re Coal Land used re Mining ty	Proposal rega structures, sh (Infrastructure presented in a physical stabi facilities) Measures to opening for u	(M arding future urry pond an tabular form lity and mai be implen nderground	Iax 150 Words e maintenance and rejects ined and to be envisaging mean intenance for the formation of the envisaging mean intenance for the envisaging mean	and disma e dismant sures to be ne retained went acce	ntling of led are to taken for th l infrastruct				

Paramet			Details		Rate Rs/	Amount "Rs.
Head			Unit	Quantity	Unit	Cr"
	Water quality management	t	LS			
	Air quality management		LS			
	Waste Management		M Cum			
	Barbed wire fencing arour		m			
	Barbed wire fencing arour		m			
	Filling of Void - Rehanding	of Crown Dump	MM3			
Des encosidos a la como	Top Soil management		MM3			
Progressive closure	Technical and Biological F	teclamation of Mined out of land and OB Dump	Ha.			
	Plantation over virgin area	including green belt	На			
	Manpower Cost and supe	vision				
	Toe Wall around the dur		m			
	Garland drain	T	m			
	Garland Drain around th	a dumb	m			
	Any other Activity	o dan p				
	Dismentaling of workshop		LS			
	Rehabilitation of the dism		LS			
Dismentaling of Infrastructure 8						
Disposal/ rehabilitation of Mining	Dismentaling of pumps al	d Pipes/ other facilitites unker, provisioning of pumps for borewell pumping arrangem	LS			
machinery	Dismentaling of stowing c Dismentaling of UG equip	anice, provisioning or pumps for porewell pumping arrangent ment	ICIIL			
		e to dump top park/ Agricultural land	LS			
	Dismentaling of Power lin		LO			
	Barbed wire fencing arour					
	Barbed wire fencing arour		m			
	Barbed wire fencing with					
		nalry pillars around the pit	m			
		stallation of borewell pump				
	Securing of Incline					
Safety and security	Concrete wall fencing a					
	Boundary wall around th					
		ng, pitching etc) of side walls of the water body				
	Toe Wall around the dur	p				
	Garland drain					
	Garland Drain around th					
	Drainage Channel from Filling of Void	nain Ob dump	На			
	Top Soil management		MM3			
Technical and Biologica	OB Rehandling for back	illing	MM3			
		h soil and vegetation of External OB Dump	Ha			
and OB Dump		iew point, cemented steps on bank				
	Expenditure on develop					
	Landscaping and Planta		LS			
	Power Cost		LS			
	Post Mining Water quali		LS			
Post Closure management and			LS			
supervision	Subsidence monitoring	or 5 years	LS			
	Waste Management		LS			
	Manpower Cost and sup		LS			
		pment (vocational/skill development training for sustaina renchment benefits to 100 employees of OC	ble income of affected p	eople		
		Retrenchment benefits to 200 employees of				
Others		o societies / institutions /organisations which is depende				
	Provide jobs in other mi					
		vices like running of schools etc.				
T . (.)						
Total						

WPI a	n on			Apr-19	Г	121.10	Amoun	t to be depo	sitad inta l	-	
	on base date	*	-	Apr-19 Apr-19	-	121.10	Year	OC	Year	UG	Total
	tion rate of Clo			Аргіо		1.00	real	00	rear	00	rotai
Loodid				ĺ		1.00	1	2.146	1	1.000	3.146
					UG	OC	2	2.254	2	1.050	3.304
Base F	ate of Closure	Cost "Rs. C	rs./Ha"	1	0.015	0.09	3	2.366	3	1.103	3.469
	e Cost "Rs. Cr				0.015	0.09	4	2.485	4	1.158	3.642
Project	Area				1000.00	885.53	5	2.609	5	1.216	3.824
Amoun	t to be depostie	ed into Escro	w Account	"Rs. in Crs"	15.00	79.70	6	2.739	6	1.276	4.016
							7	2.876	7	1.340	4.216
	t already depos				5.00	8.87	8	3.020	8	1.407	4.427
Net Am	ount to be dep	ostied into E	scrow Acco	unt "Rs. in Crs"	10.00	70.83	9	3.171	9	1.477	4.648
							10	3.330	10	1.551	4.881
	componding of					5.00%	11	3.496		<u> </u>	3.496
	e Life of the pro	oject "in Yrs"			10	33	12	3.671			3.671
Annual	Closure Cost				1.000	2.146	13	3.854			3.854
						101.12	14	4.047		-	4.047
in Crs"				- i		184.42	15 16	4.249 4.462		-	4.249 4.462
							16	4.462			4.462
							17	4.085		-	4.085
							19	5.165			5.165
								0.200			
								5.424			5.424
							20	5.424 5.695			5.424 5.695
* - Base	date considere	ed in the exan	nple is 01.04	.2019 and the life of	theOC mine consid	dered is 33 years	20	5.424 5.695 5.979			5.424 5.695 5.979
				.2019 and the life of I RS 5.0 crs have bee			20 21	5.695 5.979 6.278			5.695 5.979 6.278
and UG		ed is 10 years.					20 21 22 23 24	5.695 5.979 6.278 6.592			5.695 5.979 6.278 6.592
and UG	mine conisdere	ed is 10 years.					20 21 22 23 24 25	5.695 5.979 6.278 6.592 6.922			5.695 5.979 6.278 6.592 6.922
and UG	mine conisdere	ed is 10 years.					20 21 22 23 24 25 26	5.695 5.979 6.278 6.592 6.922 7.268			5.695 5.979 6.278 6.592 6.922 7.268
and UG	mine conisdere	ed is 10 years.					20 21 22 23 24 25 26 27	5.695 5.979 6.278 6.592 6.922 7.268 7.631			5.695 5.979 6.278 6.592 6.922 7.268 7.631
and UG	mine conisdere	ed is 10 years.					20 21 22 23 24 25 26 27 28	5.695 5.979 6.278 6.592 6.922 7.268 7.631 8.013			5.695 5.979 6.278 6.592 6.922 7.268 7.631 8.013
and UG	mine conisdere	ed is 10 years.					20 21 22 23 24 25 26 27 28 29	5.695 5.979 6.278 6.592 6.922 7.268 7.631 8.013 8.414			5.695 5.979 6.278 6.592 6.922 7.268 7.631 8.013 8.414
and UG	mine conisdere	ed is 10 years.					20 21 22 23 24 25 26 27 28 29 30	5.695 5.979 6.278 6.592 6.922 7.268 7.631 8.013 8.414 8.834			5.695 5.979 6.278 6.592 7.268 7.631 8.013 8.414 8.834
and UG	mine conisdere	ed is 10 years.					20 21 22 23 24 25 26 27 28 29 30 31	5.695 5.979 6.278 6.592 6.922 7.268 7.631 8.013 8.414 8.834 9.276			5.695 5.979 6.278 6.592 6.922 7.268 7.631 8.013 8.013 8.414 8.834 9.276
and UG	mine conisdere	ed is 10 years.					20 21 22 23 24 25 26 27 28 29 30 31 31 32	5.695 5.979 6.278 6.592 6.922 7.268 7.631 8.013 8.414 8.834 9.276 9.740			5.695 5.979 6.278 6.592 7.268 7.631 8.013 8.414 8.834 9.276 9.740
and UG	mine conisdere	ed is 10 years.					20 21 22 23 24 25 26 27 27 28 29 30 31 31 32 33	5.695 5.979 6.278 6.592 7.268 7.631 8.013 8.414 8.834 9.276 9.740 10.227		12.578	5.695 5.979 6.278 6.592 6.922 7.268 7.631 8.013 8.414 8.834 9.276 9.740 10.227
and UG	mine conisdere	ed is 10 years.					20 21 22 23 24 25 26 27 28 29 30 31 31 32	5.695 5.979 6.278 6.592 6.922 7.268 7.631 8.013 8.414 8.834 9.276 9.740		12.578	5.695 5.979 6.278 6.592 7.268 7.631 8.013 8.414 8.834 9.276 9.740
and UG	mine conisdere	ed is 10 years.					20 21 22 23 24 25 26 27 27 28 29 30 31 31 32 33	5.695 5.979 6.278 6.592 7.268 7.631 8.013 8.414 8.834 9.276 9.740 10.227		12.578	5.695 5.979 6.278 6.592 6.922 7.268 7.631 8.013 8.414 8.834 9.276 9.740 10.227
and UG	mine conisdere	ed is 10 years.					20 21 22 23 24 25 26 27 27 28 29 30 31 31 32 33	5.695 5.979 6.278 6.592 7.268 7.631 8.013 8.414 8.834 9.276 9.740 10.227		12.578	5.695 5.979 6.278 6.592 6.922 7.268 7.631 8.013 8.414 8.834 9.276 9.740 10.227

ANNEXURES

	Parameters	Details	
Ι	Copy of allotment order	Mandatory Document	Annexure - I
	/Vesting order.		
II	Certificate of Qualified person (QP) / Accredited Mining Plan preparing agency (MPPA)if the project area is confined within the vested/allotted block boundary /existing mining lease area	Mandatory Document Note: Certificate should be given on conceptual plan envisaged in the proposed mining plan depicting OB area, infrastructure locations and geo-reference co-ordinates of the lease area, block area, project area;	Annexure - II
	Where the project area extends beyond the block boundary, a certificate of Qualified person (QP)/ Accredited Mining Plan preparing agency (MPPA)should be supported with a certificate of State Government mines and Geology department must be attached, which should specify (a) intent of the state government for grant of lease beyond the vested geological boundary; (b) non-existence of Coal/ Lignite in the area beyond the vested/allotted geological block boundary/existing mining lease to rule out the issue of encroachment and use of coal bearing area (beyond the vested/allotted block boundary/existing mining lease) in the mining plan	In case the project boundary extends beyond the allotted geological block boundary certificate of non-occurrence of coal should be clearly shown. Certificate should envisage that the Cardinal Point Co-ordinates considered for preparation of Mining plan is in line with Vesting/allotment order and does not encroach any other adjacent block, and non-coal bearing certificate of the area in case any proposed infrastructure or OB dump is outside the block area; The Project area, Lease area and geological block area in "Ha" shall also be envisaged.	
III	Approval of the Company	Mandatory Document	Annexure - III
	Board Approval: ,	Board approval must Specify:	
		 Approvals of Mining Plan form the Board of the company giving undertaking for correctness of data used in preparation of Mining Plan; Details of the Qualified person (QP)/ Accredited Mining Plan preparing agency (MPPA) with certification that the eligibility of Qualified person/ 	

Parameters	Details	
	Accredited Mining Plan	
	preparingagency has been verified.	
•	• Acceptance of the Mining Plan by the	
	company board with recommendation	
	for approval;	
	• Undertaking that the mine will be	
	developed as per the approval of the	
	mining plan from Ministry of coal and	
	all other approvals, as required will be	
	obtained from relevant authorities	
	Commitment that entire mining	
	operation will be carried out as per the	
	Statutory provision given under Mines	
	Act 1952, Coal Mine Regulation 2017,	
	EP Act 1986 and FC Act 1980 and &	
	wherever specific permission will be	
	required the company will approach the	
	concerned authorities.	
	• Financial Assurance for implementation	
	····· ·····	
	rehabilitation work shall be carried out	
	in accordance with the approved Mine	
	Closure Plan and any modification	
	/amendments which may be made in the	
	mine Closure Plan by Ministry of Coal, from time to time.	
	• Undertaking that the protective measures contained in the mine closure	
	plan including reclamation and	
	rehabilitation works will be carried out	
	in accordance with the approved mine	
	closure plan and final mine closure plan	
	and undertake to submit a yearly report	
	before 1 st July of every year to the Coal	
	Controller setting forth the extent of	
	protective and rehabilitative works	
	carried cut as envisaged in the approved	
	mine closure plans (Progressive and	
	Final Closure;	
	• Undertaking that they will obtain a	
	mine closure certificate from Coal	
	Controller to the effect that the	
	protective, reclamation and	
	rehabilitation works carried out in	
	accordance with the approved mine	

	Parameters	Details	
		closure plan/final mine closure plan and	
		will surrender the reclaimed land to the	
		State Government concerned.	
IV	Copy of earlier approval of mining plan.	Mandatory Document	Annexure - IV
V	Plan / chart showing schedule of Implementation of Mine closure activities (progressive and final closure) with duration of important activities	Mandatory Document	Annexure - V
VI	Non-refundable Application Fee	Proof of the payment	Annexure - VI
VII	Expert-Review Report	Carried out by Accredited Mining Plan	Annexure - VII
		Preparing Agency (MPPA)	
VIII	Other document (if any)		Annexure

Ι	Location plan	
II	Plan certified by Qualified person	Plan in support of Annexure - II
	(QP) / Accredited Mining Plan	
	preparing agency (MPPA)if the	Note: Certificate should be given on
	project area is confined within the	conceptual plan envisaged in the proposed
	vested/allotted block boundary and	mining plan depicting OB area, infrastructure
		locations and cardinal Point co-ordinates of
	Where the project area extends beyond	the lease area, block area, project area;
	the block boundary, a Plan certified by	
	Qualified person (QP) / Accredited	In case the project boundary extends beyond
	Mining Plan preparing agency	the allotted geological block boundary
	(MPPA)should be supported with a	certificate of non-occurrence of coal should
	plan with cardinal point co-ordinates	be clearly shown.
	duly certified by the State Government	
	mines and Geology department.	Certificate should envisage that the cardinal
	miles and Geology department.	point Co-ordinates considered for preparation
	Plan in support of Annexure - II	of Mining plan is in line with
	- min in Support of Annicaute - 11	Vesting/allotment order and does not
		encroach any other adjacent block, and non-
		coal bearing certificate of the area in case any
		proposed infrastructure or OB dump is
		outside the block area;
III	KML file of the Proposed lease area,	
	Project Area and geological block.	Note:A printed copy of the KML file
	Toject Area and geological block.	superimposed in the recent (not older than
		one year from the base date) dated satellite
		Image duly certified by Accredited Agency
		should also be attached.
		The soft copy of the KML file shall also be
		part of the Soft copy of the mining Plan.
IV	Cadastral plan showing approved	
	block boundary vis-à-vis	
	proposed/existing mining lease &	
	Mine boundary superimposed over it	
	in distinct color, showing land use and	
	infrastructure etc.	
V	Geological plan showing all the	
	boreholes drilled and proposed to be	
	drilled showing allotted block	
	boundary and required lease area	
VI	Graphic Litholog	
VII	Surface Plan showing drainage	
	system, Contour, at minimum 3m	
	interval, location of BH	
VIII	Conceptual plan showing	
	infrastructure facilities including	
	colony, boundary of mining area, mine	
	entries, roads including road diversion	
	alignment etc	
IX	Tentative land use plan showing land	
	type (Govt., forest and tenancy land)	
	in the country for the container failed	

	with its data source			
X	Floor contour plan and seam folio plan, ISO-grade plan	Seam	Floor Contour	Seam Folio
XI	X-section showing coal/Lignite seams			
XII	Plan showing existing and proposed surface layout			
	OPENCAST (OC) MINES			
XIII	Plan showing total coal thickness and overburden thickness and stripping ratio			OC
XIV	Final stage quarry plan showing haul road alignment			OC
	UNDER GROUND (UG) MINES			
XV	Plan showing mode and location of entries and surface layouts			UG
XVI	Layout of the panel for each system (like Longwall, Continuous Miner, Bord& Pillar, road header etc.)			UG
XVII	Layout of pillar extraction			UG
XVIII	Support system			UG
XIX	Haulage and transport system			UG
	CLOSURE PLAN			
XX	Post mining land use plan		1	
XXI	Progressive mine closure plan/ stage	Year	Plate N	0
	plan indicating stages at 1st,3rd, 5th,	1st		
	year of achieving rated capacity of the mine and end of life (showing area,	3rd		
	volume, dump height etc. for OC and	5th		
	seam-wise layout projects and	PRC End of		
	ventilation system in UG)	Life		
XXII	Reclamation plan		1	
