



**"Under jurisdiction of Raigarh Court only"**  
साउथ ईस्टर्न कोलफील्ड्स लिमिटेड  
**SOUTH EASTERN COAL FIELDS LIMITED**  
एक मिनी रत्न कंपनी-A MINIRATNA COMPANY  
**CIN: U10102CT1985GOI003161**  
(A Subsidiary of Coal India Limited)  
**Regd. Office: SEEPAT ROAD, BILASPUR**  
(CG) 495006  
**Website: [www.secl.gov.in](http://www.secl.gov.in)**

Office of the Dy.G.M.(Min)/Sub  
Area Manager  
**CHHAL SUB AREA, RAIGARH**  
**AREA**  
At/PO: Chhal, Distt: Raigarh  
Chhatishgarh PIN -496665  
Phone - 07766-277625  
Fax -07766-277629  
Email- samchhalrgh@gmail.com

पत्र क्र. : एसईसीएल/राय./उ.क्षे.प्र./छाल उपक्षेत्र/2018/

दिनांक : 04.03.2018

प्रति,

वनमंडलाधिकारी,

वनमंडल धरमजयगढ़, जिला-रायगढ़(छ0ग0)

**विषय :** Diversion of forest land for non-forest purpose under Forest Conservation Act 1980 for diversion of 185.017 Ha. forest land for Chhal OC Seam-III 6 MTY project of SECL in Raigarh Distt. of Chhattisgarh.

**पंजीयन क्र.- FP/CG/Min/16237/2015**

**संदर्भ :** पत्र क्र./भू-प्रबंध/खनिज/331-322/523, रायपुर, दिनांक 19.02.2018

महोदय,

उपर्युक्त विषयांतर्गत संदर्भित पत्र के तहत चाही गई बिंदुवार जानकारी निम्नानुसार है :-

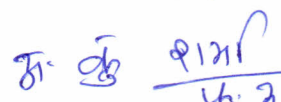
1	माँड नदी का HFL केएमएल फ़ाइल में दर्शित हो।	माँड नदी की HFL नदी के किनारे से लगी हुई है। HFL को दर्शाती (आसमानी रंग में) केएमएल फ़ाइल संलग्न सीडी में प्रस्तुत है। (Annexure - I. सीडी में प्रस्तुत)।
2	पर्यावरण स्वीकृति / खनन संबंधी लागू नियम/ कानून के अंतर्गत खनन कार्य नदी के HFL से कितनी दूरी पर किया जाना है, इसका विवरण आवेदक संस्थान से प्राप्त करें।	(I) DGMS के पत्र क्र. RGR/Chhal/P-107(1)/37/2015/2396-99/Raigarh, Dated 16.09.2015 (Annexure - II. P-1 to 3) एवं पत्र क्र.- RGR/Chhal/P-98(1) & (3)/72/2015/3265-67, Raigarh, Dated 17.12.2015 (Annexure - III. P-1 to 2) के अनुसार :-  Existing embankment, atleast 3.0 mtr. wide at the top and atleast 3.0 mtr. higher than the HFL, with side sloping not exceeding 45° from the horizontal shall be provided and kept maintained against Mand river and shall be extended up to 898900N in south-west side of the mine in such a way that it is not affected by the proposed extraction. The side of the embankment facing the Mand river shall be pitched with stone, bricks etc.  and  A solid barrier of not less than 120 m shall be left un-extracted against the Mand river.  (II) पर्यावरण एवं वन मंत्रालय, भारत सरकार द्वारा पत्र No. J-11015/1000/2007-IA.II(M) dt. 27 April, 2010 (Annexure - IV. P-1 to 6) के तहत

		<p>जारी किए गए पर्यावरण स्वीकृति (संलग्न) का विशेष सर्त की कंडिका क्रं.-(ii) के अनुसार :-</p> <p>Mining shall be carried out as per statute at a safe distance from the surface water bodies flowing in and near the mine lease/project area. The plan for modification of the natural surface drainage by construction of an embankment shall be done in consultation and approval of the concerned State Flood and Irrigation department. Embankment to be constructed shall be based on peak flow data and shall be atleast 3 mtr. above the HFL. The slope of embankment shall atleast 2:1 towards the ML and shall be stablized with plantation.</p> <p>(III) Chhal OC Seam-III 6 MTY project का प्रोजेक्ट रिपोर्ट (माईनिंग प्लान संलग्न) के अनुसार मांड नदी के पूर्वी तट से 60 मीटर के बेरियर रखे जाने का प्रावधान रखा गया है।(Annexure – V. P-1 to 1)</p>
3	बिन्दु क्र. 2 के पालन में खनन कार्य नदी से कितनी दूरी पर किया जाएगा, यह जानकारी आवेदक संस्थान उपलब्ध करावे।	बिन्दु क्र. 2 के परिपालन में खनन कार्य नदी किनारे से 120 मीटर की दूरी छोड़कर किया जाएगा। Expansion क्षेत्र के लिए Coal Mines Regulation 1957(2017) के regulation 149 (Annexure – VI. P-1 to 3) के तहत permission के अनुसार Barrier छोड़ा जाएगा।
4	नदी से उक्त दूरी छोड़कर सीमा सीडी में केएमएल फ़ाइल में दर्शित हो।	नदी से उक्त सीमा (नीले रंग में) को दर्शाते हुए 120 मीटर की चौड़ी पट्टी के Polygon को दर्शाते हुए केएमएल फ़ाइल संलग्न है। उसके अनुसार 120मी. पट्टी का क्षेत्रफल करीब 53 हे. है। जिसमेकिसी भी प्रकार वन भूमि शामिल नहीं है। उक्त पट्टी में कोई खनन कार्य नहीं किया जाएगा। बल्कि नदी के प्रवाह से खदान की सुरक्षा हेतु embankment , Road आदि बनाया जाएगा। (Annexure – VII. P 1 to 1)
5	HFL से Embankment की ऊँचाई क्या रहेगी ?	पर्यावरण स्वीकृति / खनन संबंधी लागू नियम/ कानून के अनुसार Embankment की ऊँचाई HFL से कम से कम 3 मीटर ऊपर रहेगी।

अतः उपरोक्त जानकारी के साथ अग्रिम कार्रवाई हेतु आपके समक्ष सादर प्रस्तुत है।

Encl. :- उपरोक्तनुसार ।

भवदीय,

  
 महाप्रबंधक(खनन)/ उपक्षेत्रीय प्रबंधक,  
 एसईसीएल, छाल उपक्षेत्र

प्रतिलिपि

1. महाप्रबंधक, एसईसीएल, रायगढ़ क्षेत्र –सादर सूचनार्थ





भारत सरकार / Govt. of India  
 मजदूरी एवं रोजगार विभाग / Ministry of Labour & Employment  
 खान सुरक्षा महानिदेशक / Directorate General of Mines Safety  
 रायगढ़ क्षेत्र / Raigarh Region

Near SECL GM's Office, Chhote Altamuda, Raigarh-496001 (C.G.) Phone No.07762-220116, FAX-07762-222114



संख्या आरजीआर/खान/P-107(1)/37/2015/\_\_\_\_\_/ रायगढ़, दिनांक \_\_\_\_/09/2015

प्रेषक

खान सुरक्षा निदेशक,  
 रायगढ़ क्षेत्र, रायगढ़-496001(छत्तागढ़)

सेवा में

अभिक्ता, खान श्रृंखली खदान,  
 मे० एस०ई०सी०एल०, आ/पी०ओ० खान,  
 खान उपक्षेत्र, जिला: रायगढ़-496665(छत्तागढ़)

- विषय: Permission under regulation 107(1) of the Coal Mines Regulations, 1957 for the adjustment of mine boundary between Chhal Opencast Mine and Dharam Incline of M/s SECL.

महोदय,

Please refer to your letter No. SECL/RGH/SAM/CHHAL-SA/BA/2015-2016/3040 dated 26.07.2015 and No. SECL/RGH/SAM/CHHAL-SA/BA/2015-2016/3291 dated 07.09.2015 and plans bearing Nos. SECL/ RGH/CSA/SUR/COM.PLAN/01 dated 04-09-2015(Sheet-1) & SECL/ RGH/CSA/SUR/COM.PLAN/02 dated 04-09-2015(Sheet-2) enclosed therewith on the above subject.

The matter has since been examined on the basis of information furnished by you. In exercise of the powers conferred on the Chief Inspector of Mines (also designated as Director General of Mines Safety) under Regulation 107(1) of the Coal Mines Regulations, 1957 and by virtue of the authorisation granted to me by the Chief Inspector of Mines (also designated as Director General of Mines Safety) under Section 6(1) of the Mines Act, 1952, I hereby permit you to change the mine boundary of both the mines i.e. Chhal Opencast Mine and Dharam Incline Mine of M/s South Eastern Coalfields Ltd as shown on the enclosed plans bearing Nos. SECL/RGH/CSA/SUR/COM.PLAN/01 dated 04-09-2015(sheet-1) & plan No. SECL/RGH/CSA/SUR/COM.PLAN/02 dated 04-09-2015(Sheet 2), subject to the following conditions being strictly complied with:

1.0 The changed Mine boundary of Chhal OCM will be as line joining the **Points No.1 to 43,e,d,BP-7,c,b,a,46 to 51 and 1** within National grid 899250N to 901440N & 2907568E to 2909854E.

2.0 The changed Mine boundary of Dharam Incline will be as line joining the **Points No. 2,BP-A, BP-22, to BP-7, c,b,a,46 to 51,1 and 2** within National grid 897690N to 899860N & 2907970E to 2909660E.

3.0 The Common mine boundary of Chhal OCP and Dharam incline mine at points BP-7, c,b,a,46 to 51,1 and 2 as shown on the enclosed plan shall be maintained.

महाप्रबंधक (खनन) / उपक्षेत्रीय प्रबंधक  
 एस.ई.सी.एल.खान उपक्षेत्र  
 रायगढ़ क्षेत्र

Not to  
 Calligrapher  
 Safety Officer  
 So. Scenergor  
 Chhaloem  
 19/09/2015



4.0 Following additional precautions shall be maintained while working near mine boundary:-

4.1 While conducting deep hole blasting persons working in underground within 300m from the place of blasting shall be warned and withdrawn to a safe place.

4.2 Controlled deep hole blasting shall be carried out and blast induced vibrations shall be monitored.

4.3 A proper communication system shall be established and maintained between managers of both the mines for taking adequate precautions while conducting blasting operations within danger zone.

4.4 Roof and sides in underground working within 300m from the place of blasting shall be thoroughly inspected by competent person and shall be declared it safe before deployment of persons.

5.0 Existing embankment, at least 3.0 m wide at the top and at least 3.0 m higher than the HFL, with side sloping not exceeding  $45^{\circ}$  from the horizontal shall be provided and kept maintained against Mand river and shall be extended up to 898900N in south-west side of the mine in such a way that it is not affected by the proposed extraction. The side of the embankment facing the Mand river shall be pitched with stone, bricks etc.

6.0 A solid barrier of not less than 120 m shall be left un-extracted against the Mand river.

7.0 At-least 60 m solid barrier shall be left un-extracted in all the seams between Chhal OCM and Dharam Incline mine.

8.0 The changed mine boundary shall be demarcated on surface by suitable boundary pillars.

9.0 Co-ordinates of all important survey stations/changed points shall be calculated correctly and shown on all statutory plans.

10.0 The changed boundary shall be shown on all statutory plans maintained under Regulation 59 of the Coal Mines Regulations, 1957 of the mine.

11.0 The plan showing the new boundary and up-to date position of the workings on either side of the boundary shall be submitted within seven days of the issue of this letter to this Directorate as required under the provision of Regulation 3(1) of the Coal Mines Regulations, 1957.

12.0 No workings shall be extended in the newly annexed area by change of mine boundary until working permission is obtained as required under the provision of relevant regulation of C.M.R., 1957.

13.0 Please note that this permission is subject to the following additional conditions.



13.1 In the event of any change in the circumstances connected with this permission which is likely to endanger the life of the persons employed in the mine or the mine, the mining operations for which this permission has been granted shall be stopped forthwith and intimation sent to the Director of Mines Safety, Raigarh Region. The said mining operations shall not be resumed without express or fresh permission in writing from this Directorate.

13.2 This permission is being issued specifically under the Regulations mentioned above and without prejudice to any other provisions of law which may be or may become applicable at any time.

13.3 If at any time, any one of the conditions, subject to which this permission has been granted, is violated or not complied with, this permission, shall be deemed to have been revoked with immediate effect.

13.4 The above permission may be amended or withdrawn at any time, if considered necessary in the interest of safety.

भा व दी रा,

हो

( एस०के० मंडल )

खान सुरक्षा निदेशक

रायगढ़ क्षेत्र

संख्या आरजीआर/खल/P-107(1)/37/2015/ 2396-99 /

रायगढ़, दिनांक 16 /09/2015

प्रतिलिपि सूचनार्थ एवं आवश्यक कार्यवाही हेतु संश्लेषित:

१. प्रबंधक, खल खूली खदान, मे० एस.ई.सी.एल., खल, पो० ऑ० नवापारा, जिला: रायगढ़-496665(ख०मे०)
२. प्रबंधक, धरम ई० व लाईन खदान, मे० एस.ई.सी.एल., खल, पो० ऑ० नवापारा, जिला: रायगढ़-496665(ख०मे०)
३. महा प्रबंधक, रायगढ़ क्षेत्र, मे० एस०ई.सी.एल., पो० आ०/जिला: रायगढ़-496001(ख०मे०)
४. मनोनीत मालिक/निदेशक(तकनिक/संचालन), मे० एस.ई.सी.एल., सिपत रोड, बिलारापुर ।

खान सुरक्षा निदेशक

रायगढ़ क्षेत्र

*(Signature)*





भारत सरकार / Govt. of India  
श्रम एवं रोजगार मंत्रालय / Ministry of Labour & Employment  
खान सुरक्षा महानिदेशालय / Directorate General of Mines Safety  
रायगढ़ क्षेत्र / Raigarh Region

Near SECL GM's Office, Chhote Attarmuda, Raigarh-496001 (C.G.) Phone No.07762-220116, FAX-07762-222114



संख्या. आरजीआर/छाल/P-98(1)&(3)/72/2015/ /

रायगढ़, दिनांक /12/2015

प्रेषक

खान सुरक्षा निदेशक,  
रायगढ़ क्षेत्र, रायगढ़-496001(छा०ग०)

सेवा में

अभिकर्ता, छाल खुली खदान,  
मे० साउथ ईस्टर्न कोलफिल्ड्स लिमिटेड  
ग्रा/पो०ओ० छाल, छाल उपक्षेत्र  
जिला: रायगढ़-496665(छा०ग०)

विषय: Permission/Exemption under Reg.98(1)&(3) of the Coal Mines Regulations, 1957 in respect of height & width of the benches in overburden and coal being worked by deployment of HEMM (shovel & dumpers combination) including Surface Miner and with a system of deep hole blasting in Seam Nos.VI, V(Top), V(Bottom), IV, Local & Seam III for Quarry No.2 of Chhal Opencast Mine, M/s South Eastern Coalfields Ltd.

महोदय,

Please refer to your application vide letter No.SECL/RGH/SAM/CHHAL-SA/2015-2016/3768 dated 02.12.2015 and plan submitted on the above subject.

The matter has since been examined in this Directorate on the basis of the information furnished and also shown on the enclosed plan submitted with the application.

In exercise of the powers conferred on the Chief Inspector of Mines (also designated as Director-General of Mines Safety) under the provisions of Reg.98(1)&(3) of the Coal Mines Regulations, 1957 and by virtue of the authorization granted to me by the Chief Inspector of Mines (also designated as Director-General of Mines Safety) under Section 6(1) of the Mines Act, 1952 I hereby grant you exemption from the said provision and permit you for extraction of coal and overburden by opencast method with deployment of HEMMs including Surface Miner in conjunction with deep hole blasting at Quarry No.2 in Seam No.VI, V(Top), V(Bottom), IV, Local & Seam III at Chhal Opencast Mine of M/s S.E.C.L. in the area bounded by A-B-C-D-E-F-C1-c-b-a-46-H-I-J-K-L-M-A as marked on the plan No. SECL/CHHAL OCM/SUR/WP-3/P-98 dated 30.09.2015, subject to strict compliance of the following conditions being strictly complied with:

1.0 All the conditions as stipulated in the permission letter bearing issue **No.RGR/Chhal/P-98(1)&(3)/10/2015/1424 dated 17.06.2015 including Annexure** shall remain unaltered and shall be complied with strictly.

2.0 All the conditions of permission for adjustment of mine boundary stipulated in the permission letter no. No.RGR/Chhal/P-107(1)/37/2015/2396-99 dated 16.09.2015 shall be complied with strictly and maintained.

3.0 Existing embankment, at least 3.0 m wide at the top and at least 3.0 m higher than the HFL, with side sloping not exceeding 45° from the horizontal shall be provided and kept maintained against Mand river and shall be extended up to 898900N in south-west side of the mine in such a way that it is not affected by the proposed extraction. The side of the embankment facing the Mand river shall be pitched with stone, bricks etc.

*Maya*

*Shw*  
महाप्रबंधक (खनन) / उपक्षेत्रीय प्रबंधक  
एस.ई.सी.एल.छाल उपक्षेत्र  
रायगढ़ क्षेत्र



4.0 A solid barrier of not less than 120 m shall be left un-extracted against the Mand river.

5.0 At-least 60m solid barrier shall be left un-extracted in all the seams between Chhal OCM and Dharam Incline mine.

6.0 Please note that this permission is subject to the following additional conditions.

6.1 In the event of any change in the circumstances connected with this permission which is likely to endanger the life of the persons employed in the mine or the mine, the mining operations for which this permission has been granted shall be stopped forthwith and intimation sent to the Director of Mines Safety, Raigarh Region. The said mining operations shall not be resumed without express or fresh permission in writing from this Directorate.

6.2 This permission is being issued specifically under the Regulations mentioned above and without prejudice to any other provisions of law which may be or may become applicable at any time.

6.3 If at any time, any one of the conditions, subject to which this permission has been granted, is violated or not complied with, this permission, shall be deemed to have been revoked with immediate effect.

6.4 The above permission may be amended or withdrawn at any time, if considered necessary in the interest of safety.

7.0 Unless renewed, this permission will have a validity of **5(five) years** from the issue of this letter.


अ त दी स,

हो  
( एस०के० मंडल )  
खान सुरक्षा निदेशक  
रायगढ़ क्षेत्र

संख्या आरजीआर/खान/P-98(1)&(3)/72/2015/ 3265-67/  
प्रतिलिपि सुचनार्थ एवं आवश्यक कार्यवाही हेतु संप्रेषित:

रायगढ़, दिनांक 17/12/2015

१. प्रबंधक, खान खूली खदान, मे० एस.ई.सी.एल, खान, पो०अ० नवापारा, जिला: रायगढ़-496665
२. महा प्रबंधक, रायगढ़ क्षेत्र, मे० एस०ई.सी०एल०, पो०अ०/जिला: रायगढ़-496001(छ०ग०)
३. मनोनित मालिक/निदेशक(तकनिक/संचालन), मे० एस.ई.सी.एल, सिपत रोड, बिलासपुर ।

  
खान सुरक्षा निदेशक  
रायगढ़ क्षेत्र



No.J-11015/1000/2007-IA.II(M)  
Government of India  
Ministry of Environment & Forests

Paryavaran Bhawan,  
C.G.O. Complex,  
New Delhi - 110510

Dated: 27<sup>th</sup> April 2010

To  
General Manager (W.B.P/Env.),  
M/s South Eastern Coalfields Ltd.,  
Bilaspur, Chhattisgarh.

**Sub: Expansion of Chhal Opencast Coal Mine Project (1 MTPA to 3 MTPA with a peak production of 3.5 MTPA and increase in project area from 222,439 ha to 641.013 ha) of M/s South Eastern Coalfields Ltd., located in village, Lat, Tehsil Dharamjaigarh, district Raigarh, Chhattisgarh - environmental clearance - reg.**

Sir,

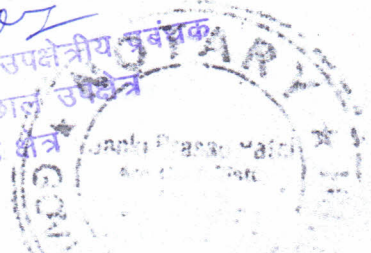
This is with reference to letter No. 43011/108/2007-CPAM dated 23.08.2007 forwarding the application for Terms of Reference (TOR) and this Ministry's letter dated 17.12.2007 granting TOR to the above-mentioned project and subsequent letter No. CIL/EMP-TOR/2009/08 of M/s CIL dated 19.02.2009 with application for environmental clearance based on TOR and letters of M/s SECL dated 10.06.2009 and 03.03.2010 on the above-mentioned subject. The Ministry of Environment & Forests has considered your application. The project is for expansion in Chhal Opencast Coalmine Project in terms of annual production capacity of coal from 1MTPA to 3 MTPA with a peak production capacity of 3.5 MTPA and project area from 222,439 ha to 641.013 ha. The project was granted environmental clearance on 27.03.2006 for a production capacity of 1 MTPA of coal in a ML area of 222,439 ha. Of the total lease area, 313,579 ha is agricultural land, 176.71 ha is forestland, 54,996 ha is wasteland, 2,520 ha grazing land and 5,890 ha is surface water bodies. Of the total project area, 137.27 ha is for quarry, 1 ha is for storage of topsoil, 37 ha is for ext. OB dump, 1 ha is for mineral storage, 36.73 ha is for infrastructure and buildings, 10 ha is for green belt, 13 ha is for township, 407.013 ha is for safety zone and for future mining. There are a number of nalas such as Dom nala, Jhampi, Sukhia, and Bojia nalas flowing in the study area. River Kurket flowing along east-west direction, joins River Mand south of the ML. River Mand flows along the western boundary of the ML is proposed to be modified by constructing an embankment along River Mand. A 60m barrier between the Mand River and the ML is proposed. There are no National Parks, Wildlife Sanctuary, Biosphere Reserves found in the 15 km buffer zone. A number of reserved and protected (open, mixed forest) are found in the buffer zone. The core zone falls partially in forest. The study area including the mine area is visited by elephants of Dharamjaigarh and Raigarh Forest Divisions. Conservation Plan has been prepared. The project involves R&R of one village - Lat involving 550 PAFS of which 329 have been given compensation. Of the balance, 25 have been rehabilitated and 69 are awaiting compensation.

Expansion of the mine is from 1 million tonnes per annum (MTPA) to 3.5 MTPA of coal production. Mining will be both opencast (OC) by mechanised method using surface miner for coal extraction and shovel-dumper for OB removal. Blasting is limited to OB removal. Of the total lease area, 137.27 ha is for quarry area, area for ext. OB dumps 37 ha, infrastructure & other facilities including roads 49.73 ha, safety zone 70 ha and area for future mining 347.013 ha. Entire mineral transportation of 10606 TPD of coal from mine pit top to Robertson's Railway siding located at a distance of 18km is presently by road and thereafter by rail. It is proposed to establish a railway siding near to the mine lease. Ultimate working depth of the mine is 140 m below ground level (bgl). Water table is in the range of 6.64-11.02 m bgl during pre-monsoon and 4.36-5.38m bgl during post-monsoon. Peak water demand is 442 m<sup>3</sup>/d of water of which 200 m<sup>3</sup>/d is for dust suppression, 142 m<sup>3</sup>/d is for domestic consumption, 20 m<sup>3</sup>/d is for green belt, 501 m<sup>3</sup>/d is workshop, and balance for other uses. Of the total water demand, 250 m<sup>3</sup>/d would be met from mine water, and 192 m<sup>3</sup>/d for domestic consumption would be met from groundwater. The peak mine water discharged would be

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Notary, District Raigarh

21 MAR 2012



M.(M)/Sub Area Manager  
Chhal Sub Area, SECL  
Raigarh Area



4580 m<sup>3</sup>/d into a seasonal nala flowing along the ML. An estimated 57.70 Mm<sup>3</sup> of OB would be generated over the balance life of the mine, of which 16 Mm<sup>3</sup> would be stored in external OB dump of 37 ha of a max. height of 60m from ground level dumped. Backfilling would begin from 2<sup>nd</sup> year of expansion project. An area of 110.95 ha of quarry area would be reclaimed with vegetation and the balance 26.32 ha would be left as a void/water body for further expansion in the dip side. Balance life of the project at the rated capacity of 3.5 MTPA is 9 years. Mining Plan of the project was approved by SECL on 22.10.2007. Public Hearing was conducted on 04.08.2008. Capital cost of the project is **Rs. 70.96 crores**

2. The Ministry of Environment & Forests has examined the application in accordance with the EIA Notification 2006 and under the provisions thereof, hereby accords environmental clearance for the above-mentioned **Chhal Opencast Coalmine project of M/s South Eastern Coalfields Ltd.** for expansion in production of coal from 1 MTPA to 3.5 MTPA rated capacity and increase in project area from **222.439 ha to 641.013 ha** under the provisions of the Environmental Impact Assessment Notification, 2006 and amendments thereto and Circulars issued thereon and subject to the compliance of the terms and conditions mentioned below:

**A. Specific Conditions**

- (i) No mining operations shall be undertaken in 176.710 ha of forestland which shall be maintained as safety zone.
- (ii) Mining shall be carried out as per statuette at a safe distance from the surface water bodies flowing in and near the Mine Lease/ project area. The plan for modification of the natural surface drainage by construction of an embankment shall be done in consultation and approval of the concerned State Flood and Irrigation Department. Embankment to be constructed shall be based on peak flow data and shall be at least 3m above the HFL. The slope of the embankment shall at least 2:1 towards the ML and shall be stabilised with plantation.
- (iii) Top soil shall be stored in the earmarked area and used for green belt development and for plantation/reclamation within a year of its generation
- (iv) OB shall be stacked at the earmarked external OB dumpsite of 37 ha within ML area for the opencast operations of a maximum height of 60m consisting of 2 benches of 30m each. The ultimate slope of the dump shall not exceed 28°. Monitoring and management of existing reclaimed dumpsites including slope stability shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional office located at Bhopal on a yearly basis.
- (v) Garland drains (size, gradient and length) around the safety areas such as mine shaft and low lying areas and sump capacity shall be designed keeping 50% safety margin over an above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. Sump capacity shall also be provided adequate retention period to allow proper settling of silt material.
- (vi) Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected shall be utilised for watering the mine area, roads, green belt development, etc. The drains shall be regularly desilted and maintained properly.  
Garland drains (size, gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material.
- (vii) Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data.

M (M) Sub Area Manager  
Chhal Sub Area, SECL  
Raigarh Area

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21 MAR 2012



- (viii) Water sprinkling system (mist type) shall be provided to check fugitive emissions from crushing operations, conveyor system which shall be closed, haulage roads, transfer points, etc.
- (ix) Drills shall be wet operated only.
- (x) Mineral transportation from coal mine to existing railway siding by road shall shift to rail mode within 2 years after a railway siding is established within/near the project area.
- (xi) Controlled blasting shall be practiced with use of delay detonators and only during daytime. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.
- (xii) An afforestation plan covering an area not less than 324.66 ha shall be implemented, which includes backfilled area (110.95 ha) and ext. OB dump (37 ha), along ML boundary, green belt, along roads, infrastructure, safety zone, undisturbed/vacant land (176.71 ha) and township area outside the lease by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha
- (xiii) Backfilling shall start by the 2<sup>nd</sup> year of expansion operations. Of the total 137.27 ha of the quarry area, an area of 110.95 ha of excavated area shall be reclaimed with plantation/afforestation by planting native plant species such as Bamboo (*Dandrocalamus strictus*), *Dandrocalamus rhedii*, *Ficus sp.*, *Bucchnania lanzen*, *Feronia elephanta*, *Milusa velutina* etc. The Committee also suggested some grass species such as *Thysanolaena agrostis*, *Cymbopogon flexuosus*, *Iseilma laxum sp.*, *Eflunda mutica*, *Dycaanthus sp*, *Pennisetum purpureum* (Elephant grass) *Erianthus ravennae*, *E. elephatinus* which would serve as fodder for the elephants and other native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha. The balance 26.32 ha of decoaled the void left for further expansion in the dipside shall be converted into a water reservoir, shall be gently sloped and the upper benches of the reservoir shall be stabilised with plantation and the periphery of the reservoir fenced.
- (xiv) The Wildlife Conservation Plan prepared for in-situ conservation of the wildlife particularly the rare and endangered species/Schedule-I and II fauna particularly Indian Elephant reported within the study area and the mine and endangered flora and species of medicinal importance found in the study area shall be implemented in consultation with the Forest and Wildlife Departments in the State Government. Separate funds shall be earmarked for implementation of the various activities there under and the status thereof shall be regularly reported to this Ministry and the MOEF Regional Office, Bhopal. The project authorities shall also participate in a Regional Action Plan of the State Government for conservation of flora and fauna including Indian Elephant found within the study area including allocation of budget (capital and revenue) towards Wildlife Conservation Plan. The details of progress made and steps/measures undertaken including costs incurred under the Plan shall be regularly reported to MOEF RO, Bhopal and also uploaded on the company website.
- (xv) Prior approval of the CGWA shall be obtained for using ground water 172 m3/d for the mining operation.
- (xvi) A detailed ground water monitoring action plan (along with budgetary provisions) for monitoring groundwater quality and level in consultation with the Central/State Ground Water Board be prepared and implemented. Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring.

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nhal Sub Area, SECI  
Raigarh Area

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- (xvii) A Plan for water conservation and recharge measures of ground water along with budgetary provisions be prepared and implemented in consultation with the Central/State Ground Water Board to mitigate the adverse impact of mining which may lead to depletion of water levels in the area. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.
- (xviii) ETP shall also be provided for treatment of effluents from workshop, and an STP shall be provided for treating wastewater from the township and the treated effluents shall be used for green belt development. An estimated 4580 m<sup>3</sup>/d of mine water shall be treated to prescribed standards before discharge into the surface waters/agricultural use.
- (xix) Besides carrying out regular periodic health check up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check up for occupational diseases and hearing impairment, if any, through an agency such as NIOH, Ahmedabad within a period of one year and the results reported to this Ministry and to DGMS.
- (xx) For monitoring land use pattern and for post mining land use, a time series of land use maps, based on satellite imagery (on a scale of 1: 5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MOEF and its Regional office at Bhopal.
- (xxi) R&R of village Lat shall be not less than the norms prescribed in National R&R Policy 2007 and shall be implemented within a specified agreed time schedule.
- (xxii) A detailed Plan for CSR with specific budgetary allocation (capital of Rs 1 crore and revenue expenditure of Rs 5 per tonne of coal) for various skill development and alternate livelihood programmes and schemes and implemented through establishment of cooperatives and SHGs particularly for the tribal populations shall be implemented. A detailed survey shall be carried on the socio-economic status of the local communities living in the villages near the project area before start of the mining operation based on a scientific methodology based on UNDP Human Development Index and monitoring the impact of project on the socio-economic and human development of the local communities, which shall be used as for monitoring the progress of the status of human and socio-economic development in the area during and after the project life which is reflected in their Annual Report of the company and is also furnished as part of the Monitoring Report submitted to MOEF.
- (xxiii) A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests five year before mine closure for approval. Habitat Restoration Plan of the mine area shall be carried out using a mix of native species found in the original ecosystem, which were conserved in-situ and ex-situ in an identified area within the lease for reintroduction in the mine during mine reclamation and at the post mining stage for habitat restoration into forest land (324.66 ha) using native species found during pre-mining period, and agricultural land (179.939 ha) including grazing land.

**B. General Conditions**

- (i) No change in technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.
- (ii) No change in the calendar plan including quantum of mineral coal and waste being produced shall be made.

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21 MAR 2017



Sub Area SEC  
Balgah Area



- (iii) Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring PM10, PM2.5, SO2 and NOx. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, in particulates shall be carried out at least once in six months.
- (iv) Data on ambient air quality (PM10, PM 2.5, SO2 and NOx and heavy metals such as Hg, As, Ni, Cr, etc) and other monitoring data shall be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EP Rules, 1986 shall be furnished as part of the compliance report.
- (v) Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.
- (vi) Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, and treated so as to conform to the standards including for heavy metals before discharge prescribed under GSR 422 (E) dated 19<sup>th</sup> May 1993 and 31<sup>st</sup> December 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.
- (vii) Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of the mineral shall be covered with tarpaulins and optimally loaded.
- (viii) Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analysed through a laboratory recognised under EP Rules, 1986.
- (ix) Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.  
Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.
- (x) A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.
- (xi) The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its Regional Office at Bhopal.
- (xii) The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution control Board and may also be seen at the website of the ministry of Environment & Forests at <http://envfor.nic.in>
- (xiii) A copy of the environmental clearance letter shall be marked to concerned Panchayat/Zila Parishad, Municipal Corporation or Urban Local Body and local NGO, if any, from whom any suggestion/representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on the company's website.

Photo Copy Attested

21 MAR 2017



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Chhal Sub Area, SECI  
Raigarh Area



- (xiv) A copy of the clearance letter shall be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.
  - (xv) The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in the public domain. The monitoring data of environmental quality parameters (air, water, noise and soil) and critical pollutants such as PM10, PM2.5, SO<sub>2</sub> and NO<sub>x</sub> (ambient and stack if any) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mines office and in corporate office and on the company's website.
  - (xvi) The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the MOEF, the respective Zonal offices of CPCB and the SPCB.
  - (xvii) The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.
  - (xviii) The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MOEF by E-mail.
3. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
  4. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection) Act, 1986.
  5. The above conditions will be enforced *inter-alia*, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.

(Dr. T. Chandini)  
Director

**Copy to:**

1. Secretary, Ministry of Coal, New Delhi.
2. Secretary, Department of Environment & Forests, Government of Chhattisgarh, Secretariat, Raipur.
3. Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, E-2/240 Aarear Colony, Bhopal - 462016.
4. Chairman, Chhattisgarh State Environment Conservation Board, 1-Tilak Nagar, Shiv Mandir Chowk, Main Road, Avanti Vihar, RAIPUR-Chhattisgarh - 492001.
5. Chairman, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110032.
6. Member-Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
7. District Collector, Raigarh, Government of Chhattisgarh.
8. Monitoring File      9. Guard File      10. Record File.

G.M.(M) Sub Area, SECL  
Chhal Sub Area, Raigarh Area

16-2-16

महामन्त्री  
General Manager

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91 MAR 2016



## Executive Summary

P.R. for Chhal OG (Seam-III) Project, (6.0Mtp)

Coal Seam/ Parting	Thickness range (m)/ Parting range	Dominant thickness (m)	Depth of occurrence (roof) (m)	Nature of sample	Range of Proximate Analysis at 60% RH & 40° C			Range		Grade (Dominant grade)
					M%	A%	VM%	Gross CV Kcal/kg	UHV Kcal/ kg	
Parting	21.52- 29.05									
I	0.10-1.95	0.4-1.2	88.70- 390.90	Bcs	6.2- 8.5	11.4- 30.7	25.5- 27.6	4758- 6112	3801- 6385	E-A (C)
				I <sub>30</sub>	6.2- 8.5	11.4- 30.7	25.5- 27.6	4758- 6112	3801- 6385	E-A (C)

## 5.1 MINE BOUNDARIES

The quarry boundary for the complete mine in the Chhal block have been fixed in the following manner:-

**North** : Fault line – F1 – F1 having throw >400m.

**South** : Floor incrop of seam III

**East** : Floor incrop of seam III

**West** : 60m barrier from Eastern bank of Mand River.

## 5.2 MINEABLE RESERVES

The mineable reserves have been estimated by Gemcom Minex Software. The estimation of reserves is based on a minimum mineable seam thickness of 0.5 m. A geological loss of 10% and a mining loss of 10% have been considered in the estimation of mineable reserves. The volume of OBR has been estimated by Gemcom Minex Software.

The mining loss of 10% deducted from the mineable reserves has been added to the total volume of OBR. The total volume of Excavation including Coal & OBR has been calculated from Gemcom Minex Software. The quarry cross-sections have been given vide Plate No.XXXI. The mineable reserves & volume of OBR have been given in the following table:-

S.N.	Mineable Reserves	Unit	Total	Vol. of OB/Parting	Unit	Total	In-seam band	Unit	Total	Rehandling, Mcum	TOTAL OB	SR
1	III Seam	Mt	82.06	Top O.B.R.	Mcum	267.61	III Seam	Mcum	1.03			
2	L seam	Mt	6.89	Part_ III AND L	Mcum	189.24	L seam	Mcum	4.61			
3	IVB seam	Mt	7.48	Part_ L AND IVB	Mcum	124.18	IVB seam	Mcum	2.5			
4	IVT seam	Mt	5.73	Part. IVB and IVT	Mcum	6.94	IVT seam	Mcum	2.03			

RLV/CMFDI

Job No. 501024

प्रबंधक (खनन) / उपक्षेत्रीय प्रबंधक  
एस.ई.सी.एल.छाल उपक्षेत्र  
रायगढ़ क्षेत्र



रजिस्ट्री सं० डी० एल०-33004/99

REGD. NO. D. L.-33004/99



# भारत का राजपत्र The Gazette of India

असाधारण

EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (i)

PART II—Section 3—Sub-section (i)

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं. 954]

नई दिल्ली, सोमवार, नवम्बर 27, 2017/अग्राहायण 6, 1939

No. 954]

NEW DELHI, MONDAY, NOVEMBER 27, 2017/AGRAHAYANA 6, 1939

श्रम और रोजगार मंत्रालय

अधिसूचना

नई दिल्ली, 27 नवम्बर, 2017

**सा.का.नि. 1449(अ).**—जबकि कतिपय विनियमों का प्रारूप, जिसे केन्द्रीय सरकार खान अधिनियम, 1952 (1952 का 35) की धारा 57 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए और उक्त अधिनियम की धारा 12 के अधीन गठित समिति की सिफारिशों के आधार पर बनाने का प्रस्ताव करती है, उक्त अधिनियम की धारा 59 की उप-धारा (1) की अपेक्षानुसार, भारत के राजपत्र, असाधारण, भाग II, खण्ड 3, उप-खण्ड (i) में अधिसूचना संख्या सा.का.नि. 773(अ), तारीख 20 अक्तूबर, 2011, को प्रकाशित किए गए थे, जिसमें उन सभी व्यक्तियों से, जिनके उससे प्रभावित होने की संभावना थी, उक्त अधिसूचना के राजपत्र में प्रकाशन की तारीख से तीन मास की अवधि के अवसान तक या उससे पहले आपत्ति और सुझाव मांगे गए थे;

और जबकि उक्त प्रारूप पर प्राप्त आपत्तियों और सुझावों पर केन्द्रीय सरकार द्वारा विचार किया जा चुका है;

अतः अब केन्द्रीय सरकार, उक्त अधिनियम की धारा 57 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए और कोयला खान विनियम, 1957, को अधिकांश करते हुए निम्नलिखित विनियम बनाती है, अर्थात् :-

## अध्याय 1

### प्रारम्भिक

**1. संक्षिप्त नाम, प्रारंभ, लागू होना और विस्तार.**— (1) इन विनियमों का संक्षिप्त नाम कोयला खान विनियम, 2017 है।

(2) ये राजपत्र में उनके प्रकाशन की तारीख को प्रवृत्त होंगे।

(3) ये प्रत्येक कोयला खान पर लागू होंगे।

6924 GI/2017

(1)

महाप्रबंधक (खनन)/उपक्षेत्रीय प्रबंधक  
एस.ई.सी.एल.खाल उपक्षेत्र  
रायगढ़ क्षेत्र

मार्ग



कार्य के प्रारंभ किए जाने से कम से कम तीस दिन पहले ऐसे आशय या प्रस्थापना की लिखित सूचना क्षेत्रीय निरीक्षक और मुख्य निरीक्षक को देगा।

(3) जहाँ भूमि के नीचे किसी ऐसी खान या उसके ऐसे भाग में, जिसका श्वसन के अयोग्य वायुमंडल से युक्त होना संभाव्य हो, कोई खोज कार्य करना आशयित हो, वहाँ,-

(क) सभी कार्य केवल बचाव आवरण में ही किए जाएँगे;

(ख) तीन व्यक्तियों से कम का कोई दल ऐसे कार्य को करने के लिए नहीं जाने दिया जाएगा; और

(ग) प्रत्येक ऐसे दल समुचित उपस्कर जो कार्बन मोनोऑक्साइड गैस का पता लगाने के लिए मुख्य निरीक्षक द्वारा अनुमोदित और एक लौ वाली अनुमोदित सुरक्षा लैम्प भी साथ ले जाई जाएगी।

**149. सतह के पानी से खतरा.-** (1) जहाँ कोई खान या उसका भाग इस प्रकार स्थित हो कि खान या भाग में सतह के पानी के संवेग अन्तर्प्रवेश का कोई खतरा हो, वहाँ ऐसे अन्तर्प्रवेश से पर्याप्त संरक्षा की व्यवस्था की जाएगी और वह बनाए रखी जाएगी, और यदि इस बारे में कोई संदेह हो कि ऐसी संरक्षा पर्याप्त है या नहीं, तो मुख्य निरीक्षक इसे अवधारित कर सकता है, जिसका निर्णय अंतिम माना जाएगा।

(2) बिना मुख्य निरीक्षक के पूर्व लिखित अनुमति द्वारा, और उन शर्तों के अधीन जो वह उसमें विनिर्दिष्ट करे और उप-विनियम (1) के प्रावधानों के अधीन, खान का प्रत्येक प्रवेश द्वार इस प्रकार अभिकल्पित, निर्मित और अनुरक्षित होगा कि उसका निम्नतम बिन्दु (वह बिन्दु जहाँ से सतह पर चढ़ती हुई जलराशि खान में प्रवेश कर सकती है) उस जगह के उच्चतम बाढ़ स्तर से 1.5 मीटर से कम ऊँचा नहीं होगा।

(3) प्रत्येक वर्ष, वर्षा के दौरान खान के सतह पर बाढ़ स्तरों पर लगातार नजर रखा जाएगा और यदि किसी भी समय स्तर पुराने अभिलिखित उच्चतम स्तर को पार करता है, तो उन स्तरों को पानी के किनारों पर स्थाई खंभों पर अंकित किया जाएगा और इस प्रकार अवलोकित किए गए नये उच्चतम स्तरों को तारीख के साथ उच्चतम बाढ़ स्तर के रूप में वास्तविक सर्वेक्षण द्वारा नक्शों पर उसे दर्ज किया जाएगा:

परन्तु उच्चतम बाढ़ स्तर को नक्शों पर अन्तर्वेशन द्वारा आलेखित नहीं किया जाएगा।

(4) यदि नदियों और जल-मार्गों पर बनाए गए पानी बाँध या जलाशय खान से प्रतिकूल प्रवाह की दिशा में हैं तो बाँध से छोड़े जाने वाले पानी, जिससे खान की सुरक्षा को खतरा संभाव्य हो, की मात्रा और उसका समय प्रतिस्थित करने के उद्देश्य से समुचित अधिकारियों के बीच संचार स्थापित करने का इंतजाम किया जाएगा तथा जब पानी का स्तर प्रतिकूल प्रवाह की ओर बढ़ने लगे जिससे किसी खान के लिए खतरा की संभाव्य हो तो भी इसी प्रकार का संचार स्थापित करने का इंतजाम किया जाएगा।

(5) प्रत्येक खान में जिसमें सतह के पानी से खतरा संभाव्य हो, सतह पर उचित स्थानों पर, उच्चतम बाढ़ स्तर तथा खतरा स्तर, जो उच्चतम बाढ़ स्तर से कम से कम 1.2 मीटर या जैसा क्षेत्रीय निरीक्षक के द्वारा अपेक्षित है, नीचे हो, स्थाई रूप से अंकित किया जाएगा, और जब भी किसी स्थान पर पानी का स्तर खतरा स्तर तक उठने लगे, सभी व्यक्तियों को पर्याप्त समय रहते हुए ही खान से बाहर निकाल लिया जाएगा और इस प्रयोजन के लिए खान के सभी भागों में प्रभावी प्रणाली द्वारा द्रुत संचार का समुचित व्यवस्था किया एवं बनाए रखा जाएगा।

(6) किसी खान में कोई खनन स्थलें.-

(क) किसी नदी, नहर, झील, तालाब या सतह के अन्य जलाशय के किसी भाग; या

(ख) किसी नदी या नहर के किसी किनारे या किसी झील, तालाब या सतह के अन्य जलाशय की सीमा से 15 मीटर की क्षैतिज दूरी के अन्दर स्थित किसी स्थल, के ठीक नीचे, मुख्य निरीक्षक की पूर्व लिखित अनुज्ञा से ही और उन शर्तों के अधीन ही जो वह उसमें विनिर्दिष्ट करे, बनाई जाएँगी, अन्यथा नहीं।

*Amr*



(7) उप-विनियम (6) के अधीन अनुज्ञा के लिए प्रत्येक आवेदन के साथ नक्शा और सेक्शन की दो प्रतियाँ दी जाएँगी जिनमें खान की खनन स्थलों की वर्तमान स्थिति, खनन स्थलों का प्रस्थापित अभिन्यास, सतह से खनन स्थलों की गहराई, पड़ोस की प्रत्येक सीमा के किन्हीं गोफों की स्थिति और गहराई, सब भ्रंश, डाइक और अन्य भूविक्षोभ और अन्य ऐसी विशिष्टियाँ जो खान की या उसमें नियोजित व्यक्तियों की सुरक्षा पर प्रभाव डाल सकें, दर्शित की जाएँगी।

**स्पष्टीकरण.**— जहाँ किसी नदी, झील, नहर, तालाब या जलाशय के तल में बालू या जलोढ़ मिट्टी हो, वहाँ सतह से गहराई, उक्त बालू या मिट्टी के नीचे की कठोर भूमि से मापी जाएगी।

(8) उप-विनियम (6) के अधीन बनाए गए सभी खनन स्थलों भूमि के नीचे स्पष्ट रूप से सीमांकन किया जाएगा।

(9) वर्षा ऋतु के दौरान प्रति चौदह दिनों में कम से कम एक बार और वर्ष के अन्य समय के दौरान प्रति तीस दिन में कम से कम एक बार एक सक्षम व्यक्ति उप-विनियम (1), (2), (3), (4) और (5) के अधीन बनाए गए प्रत्येक संरक्षात्मक उपाय की, चाहे वे प्रयुक्त होते हों या नहीं, उनके स्थायित्व के लिए जाँच करेगा, और ऐसी प्रत्येक जाँच का एक अभिलेख इस प्रयोजन के लिए रखे गए जिल्दबद्ध पृष्ठ संख्यांकित पुस्तिका में लिखी जाएगी, जिसपर जाँच करने वाला व्यक्ति तारीख देकर हस्ताक्षर करेगा तथा उस पर प्रबंधक द्वारा तारीख सहित प्रति हस्ताक्षर किए जाएँगे।

(10) संरक्षात्मक उपायों और खनन स्थलों को प्रबंधक स्वयं प्रत्येक तिमाही में कम से कम एक बार व्यक्तिगत रूप से निरीक्षण करेगा।

**150. भूमि के नीचे की बाढ़ से खतरा.**— (1) प्रत्येक खान में उसी खान या पार्श्वस्थ खान की खनन स्थलों से पानी या अन्य द्रव पदार्थ या कोई पदार्थ जो गीला होने पर बह सकता है के फूट निकलने को रोकने के लिए और पानी या अन्य पदार्थ या कोई पदार्थ जो गीला होने पर बह सकता है की जाँच-पड़ताल के लिए या उसे निकालने के लिए बोर-छिद्र वेधन के दौरान दुर्घटनाओं को रोकने के लिए उचित उपबंध बनाए जाएँगे।

(2) जहाँ निम्नलिखित किसी स्थान में काम किया जा रहा हो :-

(i) किसी अन्य सीमा या सेक्सन के नीचे की सीमा या सेक्सन में; या

(ii) किसी सीमा या सेक्सन के ऐसे स्थान में जो किसी निम्नतर सीमा या सेक्सन के किसी अन्य स्थान से निम्नतर तल पर है; या

(iii) किसी सीमा के, जो ऐसे भ्रंश के समीप है जहाँ किसी ऐसे ऊपरी सीमा या सेक्सन से होकर जाती है जो पानी या अन्य द्रव पदार्थ के संचय से युक्त है या हो सकता है, किसी स्थान में; या

(iv) कोई जलयुक्त संस्तर में,

ऊपर वर्णित विशेषताओं की स्थिति, विस्तार और गहराई सहित सभी जानकारियाँ प्राप्त की जाएँगी और अभिलिखित किए जाएँगे और कार्य करने की एक योजना अभिलिखित की जाएगी और क्रियान्वित की जाएगी कि खान में पानी को या अन्य द्रव पदार्थ या कोई पदार्थ जो गीला होने पर बह सकता है, को फूट निकलने से रोका जा सके।

(3) उप-विनियम (1) और (2) की अपेक्षाओं पर प्रतिकूल प्रभाव डाले बिना, जब कोई खनन स्थल उसी खान के या पार्श्वस्थ खान के खनन स्थलों के 60 मीटर के अन्दर पहुँच जाए (जो ऐसी खनन स्थल नहीं है जिनकी परीक्षा की जा चुकी है और जो पानी या अन्य द्रव पदार्थ या कोई पदार्थ जो भीगा होने पर बह सकता है के संचय से रहित पाई गई है), तो उसे मुख्य निरीक्षक की लिखित पूर्व अनुज्ञा से ही और उन शर्तों के अधीन ही जो वह उसमें विनिर्दिष्ट करे, आगे बढ़ाया जाएगा, अन्यथा नहीं।