

कार्यालय प्रधान मुख्य वन संरक्षक (कक्ष भू-प्रबंध), वन भवन, तुलसी नगर, म.प्र., भोपाल

क्रमांक / F-1/824/2021/10-11/ 3544
प्रति,

भोपाल, दिनांक 05/07/2024

वन महानिरीक्षक (एफ.सी.)

भारत सरकार, पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय

इंदिरा पर्यावरण भवन, अलीगंज, जोरबाग रोड़, नई दिल्ली-110003

विषय:- वन मंडल दक्षिण शहडोल के परिक्षेत्र बुढ़ार के ग्राम बण्डीखुर्द के वन कक्ष RF-834 के रकबा 36.734 हे. वनभूमि में भूमिगत कोयला उत्खनन व्यपवर्तन का मेसर्स साउथ ईस्टर्न कोलफील्ड्स लि. का ऑनलाईन प्रस्ताव क्रमांक FP/MP/MIN/29264/2017

संदर्भ:- भारत सरकार, पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, भोपाल का पत्र क्र. 8-196/1984-FC(Vol.) दिनांक 28.07.2023

---0---

कृपया विषयांकित परियोजना के संबंध में आपके द्वारा संदर्भ पत्र दिनांक 28.07.2023 से 10 बिन्दुओं पर जानकारी चाही गई है चाही गई जानकारी मुख्य वन संरक्षक, शहडोल के पत्र क्र. 2913 दिनांक 19.06.2024 से तथा वन मंडल अधिकारी, दक्षिण शहडोल के पत्र क्रमांक/1298 दिनांक 07.06.2024 से तथा मैसर्स साउथ ईस्टर्न कोलफील्ड्स लि. के पत्र क्रमांक/SECL/SGP/SUR/2023/80 दिनांक 30.11.2023 से प्राप्त हुई है प्राप्त जानकारी अनुसार बिन्दुवार जानकारी निम्नानुसार प्रस्तुत है:-

- I. After examination of the compliance of conditions stipulated in the final/ Stage-II approval issued by the Ministry vide its letter no dated 8-196/1984_Fry (Cons) dated 15.12.1986, the following documents/ information are required to be submitted:
 - a. In compliance of condition no. 3 the copy of notification of 3.295 ha Non-forest land(Compensatory Afforestation area) as RF/PF, against surface utilization of 3.295 ha out of 513.296 ha approved forest land has not been submitted, which is required to be done.

इस बिन्दु के सम्बन्ध में वन मंडल अधिकारी दक्षिण शहडोल द्वारा प्रतिवेदित किया गया है कि कलेक्टर शहडोल के आदेश क्रमांक/आर.एम./85-86/4733 दिनांक 21.04.1986 से रकबा 700.678 हेक्टेयर गैर वनभूमि उपलब्ध कराई गई है जिसमें उक्त परियोजना रकबा 3.296 हेक्टेयर भूमि सम्मिलित है। मध्य प्रदेश शासन, वन विभाग द्वारा मध्य प्रदेश के राजपत्र अधिसूचना क्रमांक F-5-4-81-10-3 दिनांक 18.03.1992 से भारतीय वन अधिनियम 1927 की धारा-29 के तहत जिला अनूपपुर के तहसील पुष्पराजगढ़ के ग्राम जुहली के खसरा क्रमांक 335 का रकबा 24.410 हे. एवं ग्राम नगमला का खसरा नम्बर 15/01 रकबा 34.398 हे. कुल 58.808 हेक्टेयर भूमि को संरक्षित वन घोषित किया गया है जो वन मंडल अनूपपुर के परिक्षेत्र राजेन्द्रग्राम के वन कक्ष क्रमांक पी.एफ. 202 के अन्तर्गत है। प्रति संलग्न है।

- b. In compliance to condition no. 3 the status of Compensatory afforestation (CA) which was proposed to be raised over the Non-forest land against surface utilization of 3.295 ha out of 513.296 ha approved forest land shall be submitted.

इस बिन्दु के सम्बन्ध में वन मंडल अधिकारी दक्षिण शहडोल द्वारा प्रतिवेदित किया गया है कि वृक्षारोपण हेतु आवेदक संस्था के द्वारा दी गई रकबा 700.678 हेक्टेयर गैरवनभूमि में से जिला अनूपपुर के तहसील पुष्पराजगढ़ जुहली के खसरा नम्बर 335 का रकबा 24.410 एवं ग्राम नगमला का खसरा नम्बर 15/01 रकबा 34.398 कुल 58.808 हेक्टेयर गैरवनभूमि को मध्य प्रदेश शासन, वन विभाग द्वारा मध्य प्रदेश के राजपत्र में अधिसूचना क्रमांक क्रमांक F-5-4-81-10-3 दिनांक 18.03.1992 से संरक्षित वन घोषित किया जा चुका है। उक्त भूमि वर्तमान में पी.एफ. 202 के अन्तर्गत है। उक्त गैरभूमि वन मंडल अनूपपुर के परिक्षेत्र राजेन्द्रग्राम के वन कक्ष क्रमांक पी.एफ. 202 के अन्तर्गत है तथा उक्त परियोजना के विरुद्ध कक्ष क्रमांक पी.एफ. 202 में वर्ष 1992-93 में वृक्षारोपण का कार्य किया गया है। अधिसूचना की प्रति तथा इसकी KML File संलग्न है।

- c. In compliance of condition no. 4 the status of reclaimed restored mine area is required to be submitted.

इस बिन्दु के संबंध में आवेदक संस्था द्वारा प्रतिवेदित किया गया है कि यह खदान भूमिगत खदान है। अतः रिक्लेमेशन भूमिगत खदान के लिये लागू नहीं होता है।

- II. The KML file of 3.296 ha diverted forest land for surface rights as well as the CA carried out over the Non-forest land against surface utilization of 3.296 ha shall also be submitted.

आवेदक संस्था द्वारा प्रतिवेदित किया गया है कि उपसंगीय निर्माण हेतु व्यपवर्तित 3.296 हेक्टेयर वनभूमि की KML File संलग्न है। वैकल्पिक वृक्षारोपण वन विभाग के द्वारा किया जाता है।

वन मंडल अधिकारी दक्षिण शहडोल द्वारा प्रतिवेदित किया गया है कि अनूपपुर जिले के तहसील पुष्पराजगढ़ के ग्राम जुहली के खसरा नम्बर 335 रकबा 24.410 हे. एवं ग्राम नगमला के खसरा नम्बर 15/01 रकबा 34.398 हे. कुल 58.808 हे. गैर वनभूमि में वर्ष 1992-93 में क्षतिपूर्ति वनीकरण किया गया है।

- III. As per the records, total 513.296 ha forest land was diverted earlier for underground coal mining which includes 3.296 ha forest land for surface rights but the State Govt. has reported that the mining work is going on 315.347 ha forest land. Hence, the status of balance 197.949 ha forest land shall be submitted.

आवेदक संस्था द्वारा प्रतिवेदित किया गया है कि भारत सरकार, पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली के द्वारा व्यपवर्तित 513.296 हेक्टेयर वनभूमि में से 315.347 हेक्टेयर वनभूमि में ही खदान संचालित है, जिसमें से 3.296 हेक्टेयर वनभूमि का उपयोग उपसंगीय निर्माण कार्य हेतु किया गया है शेष रकबा 197.949 हेक्टेयर व्यपवर्तित वनभूमि पर आगामी वर्षों में खदान विस्तारीकरण/कोयला उत्खनन की कार्यवाही की जावेगी।

- IV. The State Govt. has submitted the land schedule of 488.108 ha area wherein the 38.302 ha forest has been shown as diverted. However, the present status of this 38.302 ha diverted forest land has not been submitted. The status of compliance of the conditions stipulated in the approval accorded under FCA,1980 is also required to be submitted.

आवेदक संस्था द्वारा प्रतिवेदित किया गया है कि खदान के विस्तारीकरण के लिये वर्णित कुल क्षेत्रफल 488.108 हेक्टेयर में रकबा 38.302 हेक्टेयर वनभूमि भारत सरकार, पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली के पत्र क्रमांक 8-125/85-FC Date 13-04-1987 के द्वारा व्यपवर्तित वनभूमि 403.118 हे. का अंशभाग है जो खदान के विस्तारीकरण के लिये प्रस्तावित 36.734 हेक्टेयर वनभूमि तथा रकबा 20.432 हेक्टेयर निजी भूमि से लगा हुआ है। शर्तवार पालन प्रतिवेदन संलग्न है।

- V. It is learnt that the total area (Forest + Non-forest) reported in the Mining plan is 514.481 ha whereas the State Govt. reported mining lease area as 488.108 ha. Further, as per records 513.296 ha forest land has already been diverted in favour of present user agency and the extant proposal has been submitted for diversion of 36.724 ha forest land. Therefore, details of total mining lease area vis-à-vis total forest land within lease along with the KML files shall be submitted.

आवेदक संस्था द्वारा प्रतिवेदित किया गया है कि परियोजना का कुल क्षेत्रफल मात्र रकबा 488.108 है तथा परियोजना के बाहर निजी भूमि 26.373 हेक्टेयर में उप-संगीय निर्माण कार्य परियोजना के लिये किये गये हैं, जिसे जोड़ कर खनन योजना में वन एवं गैर वनभूमि (488.108 + 26.373) कुल 514.481 हेक्टेयर लेख किया गया है।

परियोजना का कुल क्षेत्रफल रकबा 488.108 हेक्टेयर का वर्णन निम्नानुसार है:-

क्र०	रकबा (हे. में)	वैधानिक स्वरूप	विशेष अभियुक्ति	
(i)	315.347 (513.296 का भाग)	वन (आरक्षित)	व्यपवर्तित	399.545 हे.
(ii)	38.302 (403.118 का भाग)	वन (आरक्षित)	व्यपवर्तित	
(iii)	36.734	वन (आरक्षित)	प्रस्तावित	
(iv)	9.162	वन (आरक्षित)	अव्यपवर्तित/आवश्यक नहीं	88.563 हे.
(v)	47.934	शासकीय + निजी	अधिग्रहित नहीं/आवश्यक नहीं	
(vi)	0.848	शासकीय + निजी	अधिग्रहित नहीं/आवश्यक नहीं	
(vii)	0.879	शासकीय + निजी	अधिग्रहित नहीं/आवश्यक नहीं	
(viii)	20.432	शासकीय + निजी	अधिग्रहित	
(ix)	18.470	शासकीय + निजी	अधिग्रहित	
कुल	488.108		कुल	488.108

इस प्रकार वास्तविक क्षेत्रफल 488.039 हेक्टेयर के स्थान पर 488.108 हेक्टेयर पढ़ा जावे।

व्यपवर्तित 513.296 हे. वनभूमि में से 315.347 हे. वनभूमि का उपयोग किया जा रहा है, जो कि परियोजना के कुल क्षेत्रफल 488.108 हेक्टेयर के अन्दर है तथा खदान के विस्तारीकरण हेतु 36.734 हेक्टेयर वनभूमि प्रस्तावित है।

- VI. As per satellite imagery, the presence of coal processing plant and some built-up area within the Mine lease boundary are clearly visible and part of the processing plant and built-up area are falling on the forest land. The reason for including the same in the mine lease boundary if the same does not belong to the present user agency shall be submitted.

आवेदक संस्था द्वारा प्रतिवेदित किया गया है कि भारत सरकार के द्वारा कुल व्यपवर्तित वनभूमि 513.296 हेक्टेयर में ही प्रश्नाधीन 3.296 हेक्टेयर वनभूमि सम्मिलित है, जिसमें अनुमोदित माईन प्लान के अन्नुरूप ही उपसंगीय निर्माण (Sub Area Office, Fan house, service building, Incline) आदि निर्मित है। उपरोक्त के अतिरिक्त कोई निर्माण कार्य व्यपवर्तित वनभूमि के अन्तर्गत नहीं किया गया है।

- VII. As per DSS analysis, it has been observed that some part of the Non-forest land (20.432 ha) is falling in the forest compartment No. 833 & 834, Burhar Range, South Shahdol Division. Therefore, KML file of 20.432 ha Non-forest land in the present proposal needs to be looked upon based on the records/ ground trothing and factual position shall be clarified.

आवेदक संस्था द्वारा प्रतिवेदित किया गया है कि गैर वनभूमि 20.432 हेक्टेयर के कुछ भाग में वृक्ष हैं जो कि जंगल प्रतीत होता है परन्तु वनभूमि नहीं है, वास्तव में यह उपखण्ड व्यपवर्तित 403.118 हेक्टेयर वनभूमि के अंशभाग 38.302 हेक्टेयर से लगा हुआ है, इसलिये DSS Analysis में भ्रामक स्थिति प्रस्तुत कर रहा है। रकबा 20.432 हेक्टेयर गैर वनभूमि एवं 38.302 हेक्टेयर वनभूमि की KML File संलग्न है।

- VIII. The Mining plan was approved in the year 1995. Hence, the relevance of the same in view of the technological advancement in the subsequent years is required to be examined. The State Govt. shall examine the matter and submit a revised Mining plan along with Progressive mine reclamation/ closure plan.

इस बिन्दु के सम्बन्ध में आवेदक संस्था द्वारा प्रतिवेदित किया गया है कि तकनीकी प्रगति के मद्देनजर प्रासंगिकता की जाँच हेतु स्वीकृत खनन योजना तथा माईन क्लोजर प्लान संलग्न प्रेषित है तथा Reclamation खुली खदान के लिये लागू होता है। रकबा 36.734 हेक्टेयर वनभूमि, भूमिगत खदान विस्तारीकरण हेतु प्रस्तावित है।

- IX. The copy of the detailed land use plan in 1:4000 scale as submitted is not legible. The legible copy of the same shall be uploaded on PARIVESH.

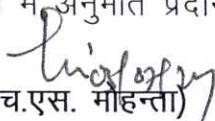
आवेदक संस्था द्वारा प्रस्तुत 1:4000 के स्केल में Land use plan की सुपाट्य प्रति हार्ड प्रति तथा पीडीएफ फाईल संलग्न है।

- X. The extant project though proposes mining by Underground methods, which has significant impacts on surface. Maximum subsidence up to 5.68 m has been reported in the report which may have adverse impact on the above ground vegetation and hydrological regimes of the area. However, no detail/studies to predict the impact of subsidence on vegetation and hydrological regimes are available in the proposal and same needs submission.

इस बिन्दु के सम्बन्ध में आवेदक संस्था द्वारा प्रतिवेदित किया गया है कि वनस्पति और जल विज्ञान व्यवस्था पर तत्समय अवतलन की स्थिति में संयुक्त निरीक्षण पश्चात् वैकल्पिक वृक्षारोपण की राशि तथा शुद्ध वर्तमान मूल्य की राशि का भुगतान किये जाने बाबत आवेदक संस्था वचनबद्ध है।

अतः उपरोक्तानुसार जानकारी संलग्न प्रेषित कर प्रकरण में अनुमति प्रदान करने का अनुरोध है।

संलग्न:-उपरोक्तानुसार

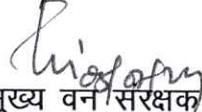

(एच.एस. मोहन्ता)

अपर प्रधान मुख्य वन संरक्षक (भू-प्रबंध)

पृ. क्रमांक / F-1/824/2021/10-11/ 3545
प्रतिलिपि:-

भोपाल, दिनांक 05/07/2024

11. मुख्य वन संरक्षक, शहडोल वृत्त शहडोल मध्य प्रदेश।
12. वन मंडल अधिकारी, सामान्य वन मंडल दक्षिण शहडोल, मध्य प्रदेश।
13. महाप्रबंधक, साउथ ईस्टर्न कोलफील्ड्स लिमिटेड, सोहागपुर क्षेत्र, पोस्ट धनपुरी जिला शहडोल, मध्यप्रदेश।


अपर प्रधान मुख्य वन संरक्षक (भू-प्रबंध)
मध्यप्रदेश, भोपाल

कार्यालय वन वृत्त शहडोल-484001 (मध्यप्रदेश)

PHONE-245361 FAX-240189 E_MAIL- ccf.sdl@mp.gov.in

क्रमांक/मा0चि0/2024/

2913

शहडोल दिनांक 19-6-2024

प्रति,

अपर प्रधान मुख्य वन संरक्षक,
(भू-प्रबंध)
मध्यप्रदेश-भोपाल

विषय - वनमण्डल दक्षिण शहडोल के वन परिक्षेत्र बुढार के ग्राम बण्डीखुर्द के वनकक्ष क्रमांक आर0एफ0 834 के रकवा 36.734 हे0 वनभूमि में भूमिगत कोयला उत्खनन कार्य का मेसर्स साउथ ईस्टर्न कोलफील्ड्स लिमिटेड के व्यपवर्तन का प्रस्ताव क्रमांक FP/MP/MIN/29264/2017

संदर्भ - (1) आपका पृ.क्र./एफ-1/824/2021/10-11/3638 दिनांक 14.08.2023
(2) वनमण्डलाधिकारी वनमण्डल दक्षिण शहडोल का ज्ञापन क्र./माचि/2024 /1298 दिनांक 07.06.2024

-☆☆☆-

विषयान्तर्गत निवेदन है कि आपके संदर्भित पत्र द्वारा भारत सरकार पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय नई दिल्ली द्वारा 10 बिन्दुओं की आपत्तियों की पूर्ति कर ऑनलाईन पोर्टल पर अपलोड कर जानकारी की हार्ड प्रति चाही गई थी। वनमण्डलाधिकारी वनमण्डल दक्षिण शहडोल द्वारा निर्देशानुसार कार्यवाही पूर्ण कर संदर्भित पत्र द्वारा हार्ड कॉपी प्राप्त हुई है। मूलतः अवलोकनार्थ एवं आवश्यक कार्यवाही हेतु संलग्न सम्प्रेषित है।

संलग्न - उपरोक्तानुसार।

(एल.एल.उड्के)
मुख्य वन संरक्षक
वन वृत्त शहडोल (म०प्र०)

पृ.क्रमांक/मा0चि0/2024/

2914

शहडोल दिनांक 19-6-2024

प्रतिलिपि -

1. वनमण्डलाधिकारी वनमण्डल दक्षिण शहडोल की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित।
2. महाप्रबंधक, एस.ई.सी.एल. सोहागपुर की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित।



अपर प्रधान मुख्य वन संरक्षक (भू-प्रबंध)
मध्यप्रदेश, भोपाल
21-6

मुख्य वन संरक्षक
वन वृत्त शहडोल (म०प्र०)

कार्यालय वन मण्डल अधिकारी दक्षिण वनमण्डल शहडोल
जिला-शहडोल 484001 (मध्यप्रदेश)

फोन (कार्या-240304) (निवास-241443) (फैक्स-240304) ई-मेल- dfotsshahd@mp.gov.in

क्रमांक/मा.चि./2024/ 1298

शहडोल, दिनांक: 07/06/2024

प्रति,

मुख्य वन संरक्षक
वन वृत्त शहडोल

विषय:- वनमण्डल दक्षिण शहडोल के वन परिक्षेत्र बुढार के ग्राम-बण्डीखुर्द के वनकक्ष क्रमांक आर.एफ. 833 एवं आर. एफ. 834 के रकवा 36.734 हे. वनभूमि में भूमिगत कोयला उत्खनन कार्य का मेसर्स साउथ ईस्टर्न कोलफील्ड्स लिमिटेड के व्यपवर्तन का प्रस्ताव क्रमांक FP/MP/MIN/29264/2017.

संदर्भ:- 1- भारत सरकार पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय नई दिल्ली का पत्र क्र./8-196/1984-FC (vol.) दिनांक 28.07.2023
2- प्र.मु.व.सं (कक्ष भू-प्रबंध) म.प्र.भोपाल का पत्र क्र./F-1/824/2021/10-11/3637 दि. 14.08.2023
3- महाप्रबंधक एस.ई.सी.एल. सोहागपुर का पत्र क्रमांक/80 दि. 30.10.2023 एवं 1133 दिनांक 31.01.2024.

-☆☆☆-

निवेदन है कि भारत सरकार पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय नई दिल्ली द्वारा 01 से 11 बिन्दुओं की आपत्तियों की पूर्ति हेतु निर्देश दिये गये थे। उपरोक्त के परिपालन में अपर प्रधान मुख्य वन संरक्षक (भू-प्रबंध) भोपाल द्वारा बिन्दुवार जानकारी तैयार कर ऑनलाईन अपलोड कर हार्डकॉपी भेजने हेतु निर्देश दिये गये हैं।

संदर्भित पत्र क्रमांक-03 से महाप्रबंधक एस.ई.सी.एल. सोहागपुर ने बिन्दुवार जानकारी तैयार कर इस कार्यालय को प्रस्तुत किया गया है तथा वनमण्डल से संबंधित बिन्दुओं की पूर्ति कर बिन्दुवार प्रतिवेदन निम्नानुसार है :-

क्र.	आपत्ति के बिन्दु	जानकारी
1	After examination of the compliance of conditions stipulated in the final/ Stage-II approval issued by the Ministry vide its letter no dated 8-196/1984_Fry (Cons) dated 15.12.1986, the following documents/ information are required to be submitted:	-
a	In compliance of condition no.3 the copy of notification of 3.296 ha Non-forest land (Compensatory Afforestation area) as RF/PF, against surface utilization of 3.296 ha out of 513.296 ha approved forest land has not been submitted, which is required to be done.	कलेक्टर शहडोल के आदेश क्रमांक/आर.एम./85-86/4733 दिनांक 21.04.1986 से रकवा 700.678 हे. गैर वन भूमि उपलब्ध कराई गयी है, जिसमें उक्त परियोजना रकवा 3.296 हे0 सम्मिलित है। म.प्र. शासन वन विभाग के राजपत्र दिनांक/F-5-4-81-10-3 दिनांक 18.03.1992 से भारतीय वन अधिनियम 1927 की धारा 29 के तहत तहसील पुष्पराजगढ़ के ग्राम जोहली के खसरा क्रमांक 335 का रकवा 24.410 एवं ग्राम नगमला का खसरा नंबर 15/01 रकवा 34.398 कुल 58.808 हे0 अधिसूचना वनखण्ड जोहली के नाम से जारी किया गया, जो वनमण्डल अनूपपुर के परिक्षेत्र राजेन्द्रग्राम के वन कक्ष क्रमांक पीएफ 202 है। जिसमें वर्ष 1992-93 में क्षतिपूर्ति वनीकरण किया गया है। उपरोक्त के संबंध में वन मण्डलाधिकारी अनूपपुर द्वारा पत्र क्रमांक/माचि/8453 दिनांक 06.12.2023 से जानकारी प्रस्तुत की गई है। शासन द्वारा जारी अधिसूचना की छायाप्रति संलग्न है।



C:\Users\HP\Desktop\LATER DM 2023.docx1

शाखा
दिनांक
अधीक्षक

19/06/2024

b,	In compliance to condition no. 3 the status of Compensatory afforestation (CA) which was proposed to be raised over the Non-forest land against surface utilization of 3.296 ha out of 513.296 ha approved forest land shall be submitted.	वृक्षारोपण हेतु आवेदक संस्थान के द्वारा दी गई गैर वनभूमि 700.678 हेक्टेयर में से तहसील पुष्पराजगढ़ ग्राम जोहली के खसरा नम्बर 335 का रकवा 24.410 एवं ग्राम नगमला का खसरा नंबर 15/01 रकवा 34.398 कुल 58.808 हे० म.प्र. शासन वन विभाग के राजपत्र दिनांक/F-5-4-81-10-3 दिनांक 18.03.1992 से अधिसूचना जारी कर संरक्षित वन घोषित किया गया है। उक्त परियोजना के विरुद्ध कक्ष क्रमांक पी.एफ. 202 में वर्ष 1992-93 में रोपण कार्य किया गया है, जो अनूपपुर वनमण्डल के अन्तर्गत है। अधिसूचना एवं के.एम.एल. फाईल संलग्न है।
c	In compliance of condition no.4 the status of reclaimed restored mine area is required to be submitted.	आवेदक संस्थान द्वारा उक्त बिन्दु की जानकारी प्रस्तुत की गई है। छायाप्रति संलग्न है।
II	The KML file of 3.296 ha diverted forest land for surface rights as well as the CA carried out over the Non-forest land against surface utilization of 3.296 ha shall also besubmitted.	आवेदक संस्थान द्वारा उक्त बिन्दु की जानकारी प्रस्तुत की गई है तथा 3.296 हेक्टेयर के एवज में उपलब्ध कराई गई गैर वनभूमि तहसील पुष्पराजगढ़ के ग्राम जोहली के खसरा नम्बर 335 रकवा 24.410 हेक्टेयर एवं ग्राम नगमला के खसरा नम्बर 15/01 रकवा 34.398 हे. कुल 58.808 हेक्टेयर में वनमण्डल अनूपपुर अन्तर्गत वर्ष 1992-93 में क्षतिपूर्ति वनीकरण किया गया है।
III	As per the records, total 513.296 ha forest land was diverted earlier for under-ground coal mining which includes 3.296 ha forest land for surface rights but the State Govt. hasreported that the mining work is going on 315.347 ha forest land. Hence, the status ofbalance 197.949 ha forest land shall be submitted.	आवेदक संस्थान द्वारा उक्त बिन्दु की जानकारी प्रस्तुत की गई है। छायाप्रति संलग्न है।
IV	The State Govt. has submitted the land schedule of 488.108 ha area wherein the 38.302 ha forest has been shown as diverted. However, the present status of this 38.302 hadiverted forest land has not been submitted. The status of compliance of the conditionsstipulated in the approval accorded under FCA,1980 is also required to be submitted.	आवेदक संस्थान द्वारा उक्त बिन्दु की जानकारी प्रस्तुत की गई है। छायाप्रति संलग्न है।
V	It is learnt that the total area (Forest + Non-forest) reported in the Mining plan is 514.481 ha whereas the State Govt. reported mining lease area as 488.108 ha. Further, as perrecords 513.296 ha forest land has already been diverted in favour of present useragency and the extant proposal has been submitted for diversion of 36.724 ha forestland. Therefore, details of total mining lease area vis-à-vis total forest land within leasealong with the KML files shall be submitted.	आवेदक संस्थान द्वारा उक्त बिन्दु की जानकारी प्रस्तुत की गई है। छायाप्रति संलग्न है।
VI	As per satellite imagery, the presence of coal processing plant and some built-up area within the Mine lease boundary are clearly visible and part of the processing plant andbuilt-up area are falling on the forest land. The reason for including the same in the minelease boundary if the same does not belong to the present user agency shall besubmitted.	आवेदक संस्थान द्वारा उक्त बिन्दु की जानकारी प्रस्तुत की गई है। छायाप्रति संलग्न है।

VII	As per DSS analysis, it has been observed that some part of the Non-forest land (20.432 ha) is falling in the forest compartment No. 833 & 834, Burhar Range, South Shahdol Division. Therefore, KML file of 20.432 ha Non-forest land in the present proposal needs to be looked upon based on the records/ ground truthing and factual position shall be clarified.	गैर वनभूमि 20.432 हे० का संयुक्त मौका निरीक्षण परिक्षेत्रधिकारी बुढ़ार से कराया गया। वन परिक्षेत्रधिकारी बुढ़ार ने दिनांक 09.04.2024 को आवेदक संस्थान के साथ मौका निरीक्षण किया गया, जिसमें 20.432 हे. गैर वन भूमि वनक्षेत्र से बाहर है तथा आवेदित क्षेत्र व्यपवर्तित वनभूमि 403.118 हे. के अंशभाग 38.30 हेक्टेयर वन सीमा से लगा हुआ है। मौका पंचनामा एवं के.एम.एल. फाईल तैयार की गई तथा 1:12500 के स्केल में स्थल मार्क किया जाकर अपने पत्र क्र. 569 दिनांक 13.04.2024 एवं 711 दिनांक 28.05.2024 से प्रतिवेदन प्रस्तुत किया गया है। के.एम.एल फाईल एवं मानचित्र की छायाप्रति संलग्न है।
VIII	The Mining plan was approved in the year 1995. Hence, the relevance of the same in view of the technological advancement in the subsequent years is required to be examined. The State Govt. shall examine the matter and submit a revised Mining plan along with Progressive mine reclamation/ closure plan.	आवेदक संस्थान द्वारा उक्त बिन्दु की जानकारी प्रस्तुत की गई है। छायाप्रति संलग्न है।
XI	The copy of the detailed land use plan in 1:4000 scale as submitted is not legible. The legible copy of the same shall be uploaded on PARIVESH.	आवेदक संस्थान द्वारा उक्त बिन्दु की जानकारी प्रस्तुत की गई है। छायाप्रति संलग्न है।
X	The extant project though proposes mining by Underground methods, which has significant impacts on surface. Maximum subsidence up to 5.68 m has been reported in the report which may have adverse impact on the above ground vegetation and hydrological regimes of the area. However, no detail/studies to predict the impact of subsidence on vegetation and hydrological regimes are available in the proposal and same needs submission.	आवेदक संस्थान द्वारा उक्त बिन्दु की जानकारी प्रस्तुत की गई है। छायाप्रति संलग्न है।

अतः अनुरोध है कि आवेदक संस्थान से प्राप्त बिन्दुवार एवं वनमण्डल अनूपपुर से बिन्दु क्रमांक I (a, b) तथा वनमण्डल से संबंधित जानकारी तैयार कर 03 प्रतियों में संलग्न कर आवश्यक कार्यवाही हेतु सादर सम्प्रेषित है।

संलग्न :- उपरोक्तानुसार

पृ० क्रमांक/मा.चि./2024/ 1299

प्रतिलिपि:-

1. अपर प्रधान मुख्य वन संरक्षक (भू-प्रबंध) वन भवन तुलसी नगर मध्यप्रदेश भोपाल की ओर सूचनार्थ सादर सम्प्रेषित।
2. महाप्रबंधक एस.ई.सी.एल. सोहागपुर की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु अग्रेषित।


 (श्रद्धा पन्डे)
 वन मण्डल अधिकारी
 दक्षिण शहडोल वन मण्डल
 शहडोल, दिनांक 07/06/2024


 वनमण्डलाधिकारी
 दक्षिण वनमण्डल शहडोल



कार्यालय वनमण्डलाधिकारी वनमण्डल, अनूपपुर (म०प्र०)

E-mail : dfotanppur@mp.gov.in Ph. No. (07659) 222038

क्रमांक/मा.चि./2023/8453

अनूपपुर, दिनांक 6/12/2023

प्रति,

वन मण्डलाधिकारी
दक्षिण वन मण्डल शहडोल (म.प्र.)

विषय :- वन मण्डल दक्षिण शहडोल के वन परिक्षेत्र बुढ़ार के वन कक्ष क्रमांक आर.एफ. 833, 834 के रकवा 36.734 हे. वन भूमि में बंगवार भूमिगत कोयला उत्खनन व्यपवर्तन का मे० साउथ ईस्टर्न कोलफिल्ड्स का प्रस्ताव।

संदर्भ :- 1- आपका पत्र क्रमांक/मा.चि./2023/5401 दिनांक 03-11-2023 एवं पृ०क्रमांक/मा.चि./2023/6976 दिनांक 04.12.2023

2- कार्यालयीन पत्र क्रमांक/मा.चि./2023/8217 दिनांक 29.11.2023

—0—

उपरोक्त विषयांतर्गत संदर्भित पत्र क्रमांक 01 द्वारा वन मण्डल दक्षिण शहडोल के वन परिक्षेत्र बुढ़ार अंतर्गत 36.734 हे. वन भूमि बंगवार भूमिगत कोयला उत्खनन के संबंध में भारत सरकार के पत्र दिनांक 28.07.2023 के बिन्दु क्रमांक I A, B के अनुसार रकवा 3.296 हे. वन भूमि के भारतीय वन अधिनियम 1927 की धारा 29 के तहत अधिसूचना की प्रति एवं के.एम.एल. उपलब्ध कराने हेतु लेख किया गया है।

कार्यालयीन पत्र क्रमांक/ मा.चि./2023/8217 दिनांक 29.11.2023 द्वारा कलेक्टर जिला शहडोल के पत्र क्रमांक/RM/85-86/4733 दिनांक 21.04.1986 से 700.678 हे. राजस्व वन भूमि वन विभाग को हस्तांतरित किया गया है, जिसके अनुक्रम में अधिसूचना क्रमांक/F-48-87-10-3 दिनांक 13.10.1987 एवं क्रमांक/F-5-4-81-10-3 दिनांक 18.03.1992 को वन प्रदेश शासन द्वारा जारी अधिसूचना आपकी ओर प्रेषित की गई थी। आपके कार्यालय से प्राप्त अभिलेख अनुसार खसरा नंबर 335 ग्राम जुहिली रकवा 3.296 हे. गैर वनभूमि में वनीकरण वर्ष 1992-93 में किया गया था।

मध्यप्रदेश शासन वन विभाग के राजपत्र क्रमांक/F-5-4-81-10-3 दिनांक 18.03.1992 में अधिसूचित वनखण्ड जुहिली के खसरा नंबर 335 पार्ट रकवा 24.410 हे. में रकवा 3.296 हे. शामिल है, जो वन परिक्षेत्र राजेन्द्रग्राम के वन कक्ष क्रमांक पी.एफ. 202 के अंतर्गत है।

अतः चाही गई जानकारी आपके अवलोकनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है।

संलग्न :- अधिसूचना एवं kml File.

वन मण्डलाधिकारी
वन मण्डल अनूपपुर

अनूपपुर, दिनांक 6/12/2023

पृ०क्रमांक/मा.चि./2023/8454
प्रतिलिपि :-

मुख्य वन संरक्षक वन वृत्त शहडोल की ओर सूचनार्थ सम्प्रेषित।

वन मण्डलाधिकारी
वन मण्डल अनूपपुर

मध्यप्रदेश राजपत्र, दिनांक 26 जून 1992

वन विभाग

भोपाल, दिनांक 18 मार्च 1992

क्र. एफ. 5-4-81-दस-3 - भारतीय वन अधिनियम, 1927 (क्रमांक 16, सन 1927) की धारा 29 द्वारा प्रदत्त शक्तियों को प्रयोग में लाते हुए, राज्य शासन, एतद्वारा उक्त अधिनियम के अध्याय 4 के उपबन्धों को नीचे की अनुसूची में उल्लेखित की गई वन भूमि/बजट भूमि पर लागू होने की घोषणा इन शर्तों के अधीन करते हुए करता है कि व्यक्तियों या समुदायों के वर्तमान अधिकार जहाँ तक कि वे राज्य शासन द्वारा समय-समय पर रूप-भेदित किया जावे, के अतिरिक्त किसी भी रीति में व्यूनीकृत या प्रभावित नहीं किये जावेंगे -

अनुसूची

पश्चिम-राहडील, राहडील-पुष्पराजगढ़, वनमंडल-दक्षिण राहडील, वनपरिक्षेत्र-राजेन्द्रग्राम

क्र. सं.	वन परिक्षेत्र का नाम	वन या बजट भूमि का नाम	क्षेत्र क्रमांक	क्षेत्रफल (हेक्टर में)	सीमाएं
(1)	(2)	(3)	(4)	(5)	(6)
1	राहडील	ग्राम राहडील	335 (पाट)	24-410	उत्तर - कृत्रिम मुनारा क्रमांक 1 से 6 तक. पूर्व - कृत्रिम मुनारा क्रमांक 6 से 10 तक. दक्षिण - कृत्रिम मुनारा क्रमांक 10 से 16 जोहिला नदी तक. पश्चिम - जोहिला नदी एवं कृत्रिम मुनारा क्रमांक 16 से 22 तथा 1 तक.
2	नगमला	ग्राम नगमला	15/1	34-398	उत्तर - कृत्रिम मुनारा क्रमांक 1 से 6 तक. पूर्व - कृत्रिम मुनारा क्रमांक 6 से 20 तक. दक्षिण - कृत्रिम मुनारा क्रमांक 20 से 39 तक. पश्चिम - बगदरा नाला सीमा कृत्रिम मुनारा क्रमांक 39 से 1 तक.

कुल योग. 58.808

मध्यप्रदेश के राज्यपाल के नाम से तथा आदेशानुसार, असोक मरीह, अतिरिक्त सचिव

423
470

424
491

कार्यालय वन परिक्षेत्राधिकारी वन परिक्षेत्र बुढ़ार
वन मण्डल दक्षिण शहडोल (म0प्र0)

फोन नं. 9424794442 ई-मेल RotBurhar@mp.gov.in

क्रमांक..... 710

बुढ़ार/दिनांक 28/5/2024

प्रति,

श्रीमान् वन मण्डलाधिकारी महोदय,

दक्षिण वन मण्डल शहडोल

द्वारा :- श्रीमान् उपवन मण्डलाधिकारी जैतपुर

विषय :- वन मण्डल दक्षिण शहडोल के वन परिक्षेत्र बुढ़ार वन कक्ष क्र. आरएफ 833, 834 के रकवा 36.734 हेक्टेयर वन भूमि में बंगवार भूमिगत कोयला उत्खनन व्यपवर्तन में सर्च साउट एस्टर्न कोल फिल्ड का प्रस्ताव।

संदर्भ :- श्रीमान् का पत्र क्र./माचि/3707 दिनांक 07.05.2024

—000—

विषयांकित संदर्भ में निवेदन है कि भारत सरकार के बिन्दु क्र. 07 में उठाई गयी अपत्ति के अनुसार मौका स्थल का जांच प्रतिवेदन पूर्व में भेजा गया था 20.432 हेक्टेयर गैर वन भूमि को 1:12500 के स्केल में स्थल मार्क किया गया है। स्थल मार्क कर 03 प्रति नक्शों के साथ गैर वन भूमि खसरो की छायाप्रति सहित प्रतिवेदन अग्रिम कार्यवाही हेतु सादर सम्प्रेषित है।

वन परिक्षेत्राधिकारी
वन परिक्षेत्र बुढ़ार



कार्यालय उपवनमण्डलाधिकारी जैतपुर मु शहडोल
क्रमांक 1254 दिनांक 29/5/24

मूलतः वन मण्डलाधिकारी के द्वारा वन मण्डल शहडोल के वन परिक्षेत्र बुढ़ार वन कक्ष क्र. आरएफ 833, 834 के रकवा 36.734 हेक्टेयर वन भूमि में बंगवार भूमिगत कोयला उत्खनन व्यपवर्तन में सर्च साउट एस्टर्न कोल फिल्ड का प्रस्ताव अग्रिम कार्यवाही हेतु सादर सम्प्रेषित है।

उप वन मंडलाधिकारी
जैतपुर

4875
29/5/24

कार्यालय वन परिक्षेत्राधिकारी वन परिक्षेत्र बुढ़ार वन मण्डल दक्षिण शहडोल (म0प्र0)

फोन नं. 9424794442 ई-मेल RotBurhar@mp.gov.in

बुढ़ार / दिनांक 12/04/2024

क्रमांक..... 569

प्रति,

श्रीमान वन मण्डलाधिकारी महोदय,

दक्षिण वन मण्डल शहडोल

द्वारा :-

श्रीमान उप वन मण्डलाधिकारी जैतपुर

विषय :-

वन मण्डल दक्षिण शहडोल के वन परिक्षेत्र बुढ़ार के वन कक्ष क्र. आरएफ 833, 834 के रकवा 36.734 हे. वन भूमि में बंगवार भूमिगत कोयला उत्खनन व्यपवर्तन का मे. साउथ ईस्टर्न कोल फिल्डस का प्रस्ताव।

श्रीमान् का पत्र क्र./माचि/1376 दिनांक 08.02.2024, 1895 दिनांक 26.02.2024

—000—

विषयांकित संदर्भ में निवेदन है कि वन परिक्षेत्र बुढ़ार अन्तर्गत बीट धनपुरी के कक्ष क्र. आरएफ 833 एवं 834 वन भूमि पर एसईसील सोहागपुर द्वारा बंगवार भूमिगत खदान हेतु क्षेत्र का संयुक्त निरीक्षण किया गया मौके पर विभिन्न प्रजाति एवं गोलाई वर्ग के वृक्ष हैं जिसकी सूची पूर्व में प्रेषित की जा चुकी है। आवेदित क्षेत्र से लगा हुआ व्यपवर्तित वन भूमि 403.118 हे. के अंश भाग 38.30 हे. वन क्षेत्र से लगा हुआ है। मौका स्थल के अनुसार 20.432 हे. गैर वन भूमि है। मौका स्थल की जीपीएस रीडिंग ली गई तथा केएमएल फाईल तैयार किया गया मौका पंचनामा केएमएल फाईल सहित 03 प्रतियों में संलग्न कर अग्रिम कार्यवाही हेतु सादर सम्प्रेषित है।

संलग्न :-

उपरोक्तानुसार

वन परिक्षेत्राधिकारी
वन परिक्षेत्र बुढ़ार

कार्यालय वन मण्डलाधिकारी जैतपुर नु. शहडोल
क्रमांक 1043 दिनांक 16/04/2024

मौका. वन मण्डलाधिकारी कोष व वन मण्डल शहडोल की ओर प्राप्त होने
अधिकृत उपाय ले आशुत कार्यावाही हेतु संलग्न है।

उप वन मंडलाधिकारी
जैतपुर

दिनांक : 9/4/24

मौका पंचनामा

स्थल : RF 833,
834 वनपुरी

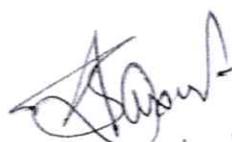
— x —

हम भूदाहस्तांतर कर्ता पंचान इस बात की तस्वीर करते हैं कि आज दिनांक 9/4/24 को वनमण्डल दक्षिण शहरोल के प्लॉट क्र. / मा.चि. / 2024 / 1895 दि. 26/02/24 के परिपालन वन परिशेष बुटार मंत्रगत कसक्र. RF. 833 एवं 834 वन भूमि एस.ई.सी. एल. सोहागपुर ढांग बंगवार भूमिगत खदान हेतु प्रस्तुत किया गया है। उक्त क्षेत्र का संयुक्त निरीक्षण किया गया, जिसमें सर्वेयर दीपांशु द्विवेदी तथा नोडल अधिकारी ए.के. सम्मैना एस.ई.सी. एल. सोहागपुर क्षेत्र उपस्थित रहे। मौके से विभिन्न प्रजाति एवं गोलाई की वृक्ष हैं जिनकी सूची पूर्व में प्रेषित की जा चुकी है। आवेदित क्षेत्र से लगा हुआ व्यपवर्तित वन भूमि 403.118 हेक्टेयर के मंश भाग 38.30 है वन क्षेत्र से लगा हुआ है। मौका स्थल के अनुसार 20.432 है गैर वन भूमि है। मौका स्थल की जी.पी.एस. टैगिंग की गई तथा KML फॉर्मल नम्वर किया गया जिसका मौका पंचनामा तैयार कर लेख किया गया एवं पंचनामा पढ़ कर अपने-2 हस्ताक्षर किए जा सके एवं सत्य है।

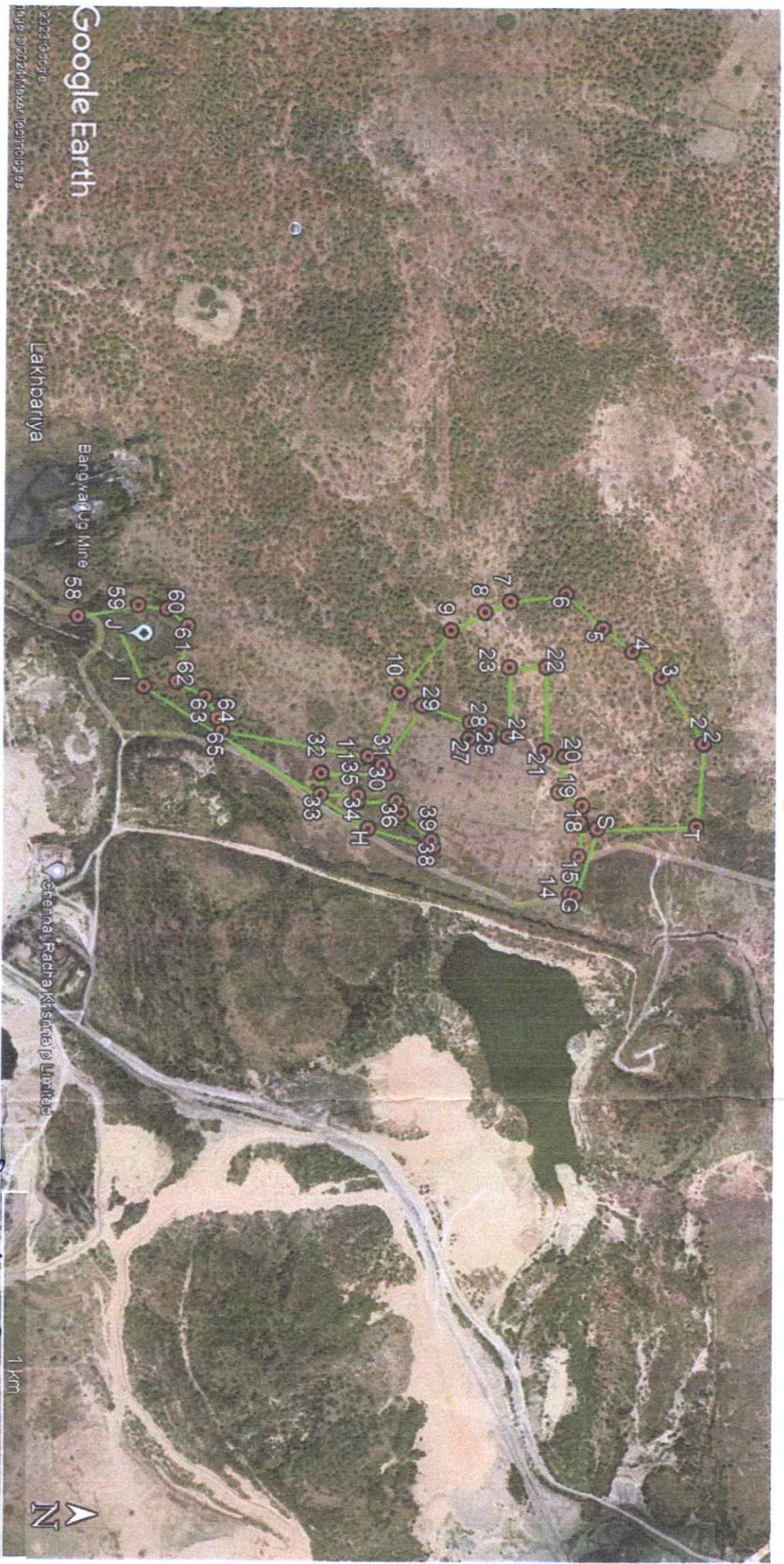
पंचनामा मेरे द्वारा लिपिबद्ध किया गया


R.O. Burchas

Amply
व.र.वि.कर्तव्य बुटार


Notary Official
SBLL

Swing
B. Pr. Dhanpur
Dipankar
Surgeon
Banyar



38.302 8. 77 884 87 5. 297. 287.

AMV
 COLLIERY MANAGER
 BANGWAR U.G. MINE

3/11/24
 SURVEYOR
 BANGWAR U.G. MINE

SECL

SOHAGPUR AREA

OFFICE OF THE MANAGER

BANGWAR UG MINE

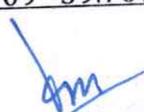
CO-ORDINATES OF 20.432 Ha Revenue Land

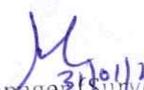
SL. No	Stations	SPHERICAL CO-ORDINATE in WGS-84	
		Northing (in D° M' S")	Easting (in D° M' S")
1	14	23° 09' 48.0339" N	81° 32' 58.6765" E
2	15	23° 09' 48.7424" N	81° 32' 55.0596" E
3	16	23° 09' 48.9526" N	81° 32' 51.9906" E
4	17	23° 09' 48.7561" N	81° 32' 51.7852" E
5	18	23° 09' 48.9900" N	81° 32' 50.2484" E
6	19	23° 09' 46.9090" N	81° 32' 48.9625" E
7	20	23° 09' 47.3708" N	81° 32' 45.5055" E
8	21	23° 09' 45.7185" N	81° 32' 44.9782" E
9	22	23° 09' 45.8257" N	81° 32' 36.9307" E
10	23	23° 09' 42.5417" N	81° 32' 36.9902" E
11	24	23° 09' 42.4762" N	81° 32' 43.5740" E
12	25	23° 09' 40.8556" N	81° 32' 42.9067" E
13	26	23° 09' 40.8047" N	81° 32' 43.7780" E
14	27	23° 09' 39.0017" N	81° 32' 43.8107" E
15	28	23° 09' 39.1051" N	81° 32' 42.1721" E
16	29	23° 09' 34.9253" N	81° 32' 40.6457" E
17	30	23° 09' 31.4072" N	81° 32' 46.3870" E
18	31	23° 09' 31.8414" N	81° 32' 47.2840" E
19	32	23° 09' 26.0438" N	81° 32' 47.2496" E
20	33	23° 09' 26.0107" N	81° 32' 49.2710" E
21	34	23° 09' 29.2325" N	81° 32' 49.3521" E
22	35	23° 09' 29.2674" N	81° 32' 49.9439" E
23	36	23° 09' 32.6545" N	81° 32' 49.8826" E
24	37	23° 09' 33.0844" N	81° 32' 51.0238" E
25	38	23° 09' 35.8041" N	81° 32' 53.6217" E
26	39	23° 09' 35.9426" N	81° 32' 54.2462" E
27	40	23° 09' 39.1644" N	81° 32' 54.3272" E
28	41	23° 09' 39.1708" N	81° 32' 54.7450" E
29	42	23° 09' 39.8191" N	81° 32' 55.0120" E
30	43	23° 09' 39.8743" N	81° 32' 55.8585" E
31	44	23° 09' 39.8390" N	81° 32' 56.3021" E
32	45	23° 09' 40.9369" N	81° 32' 56.4912" E
33	46	23° 09' 40.4068" N	81° 32' 59.7383" E
34	47	23° 09' 39.8272" N	81° 32' 59.7487" E
35	48	23° 09' 39.5976" N	81° 33' 01.5641" E
36	49	23° 09' 40.3094" N	81° 33' 01.6905" E
37	50	23° 09' 40.8610" N	81° 32' 59.8694" E
38	51	23° 09' 41.3867" N	81° 32' 56.3768" E
39	52	23° 09' 42.6750" N	81° 32' 56.4232" E
40	53	23° 09' 42.6832" N	81° 32' 56.9578" E
41	54	23° 09' 45.5180" N	81° 32' 56.9987" E
42	55	23° 09' 45.5287" N	81° 32' 57.6952" E
43	14	23° 09' 48.0339" N	81° 32' 58.6765" E

Colliery manager
Bangwar UG Mine

Dy. Manager (Survey)
Bangwar UG Mine

SECL		SOHAGPUR AREA	
OFFICE OF THE MANAGER			
BANGWAR UG MINE			
CO-ORDINATES OF 38.302 Ha Forest Land			
SL. No	Stations	SPHERICAL CO-ORDINATE in WGS-84	
		Northing (in D° M' S'')	Easting (in D° M' S'')
1	2	23° 09' 59.7071" N	81° 32' 44.1895" E
2	T	23° 09' 59.1005" N	81° 32' 52.1716" E
3	S	23° 09' 50.3522" N	81° 32' 52.4228" E
4	G	23° 09' 48.5247" N	81° 32' 58.8460" E
5	14	23° 09' 48.0339" N	81° 32' 58.6765" E
6	15	23° 09' 48.7424" N	81° 32' 55.0596" E
7	16	23° 09' 48.9526" N	81° 32' 51.9906" E
8	17	23° 09' 48.7561" N	81° 32' 51.7852" E
9	18	23° 09' 48.9900" N	81° 32' 50.2484" E
10	19	23° 09' 46.9090" N	81° 32' 48.9625" E
11	20	23° 09' 47.3708" N	81° 32' 45.5055" E
12	21	23° 09' 45.7185" N	81° 32' 44.9782" E
13	22	23° 09' 45.8257" N	81° 32' 36.9307" E
14	23	23° 09' 42.5417" N	81° 32' 36.9902" E
15	24	23° 09' 42.4762" N	81° 32' 43.5740" E
16	25	23° 09' 40.8556" N	81° 32' 42.9067" E
17	26	23° 09' 40.8047" N	81° 32' 43.7780" E
18	27	23° 09' 39.0017" N	81° 32' 43.8107" E
19	28	23° 09' 39.1051" N	81° 32' 42.1721" E
20	29	23° 09' 34.9253" N	81° 32' 40.6457" E
21	30	23° 09' 31.4072" N	81° 32' 46.3870" E
22	31	23° 09' 31.8414" N	81° 32' 47.2840" E
23	32	23° 09' 26.0438" N	81° 32' 47.2496" E
24	33	23° 09' 26.0107" N	81° 32' 49.2710" E
25	34	23° 09' 29.2325" N	81° 32' 49.3521" E
26	35	23° 09' 29.2674" N	81° 32' 49.9439" E
27	36	23° 09' 32.6545" N	81° 32' 49.8826" E
28	37	23° 09' 33.0844" N	81° 32' 51.0238" E
29	38	23° 09' 35.8041" N	81° 32' 53.6217" E
30	39	23° 09' 35.9426" N	81° 32' 54.2462" E
31	H	23° 09' 30.1768" N	81° 32' 52.5093" E
32	I	23° 09' 10.4158" N	81° 32' 38.9988" E
33	J	23° 09' 08.2373" N	81° 32' 33.7822" E
34	58	23° 09' 04.5988" N	81° 32' 32.3466" E
35	59	23° 09' 09.9037" N	81° 32' 31.2385" E
36	60	23° 09' 12.4330" N	81° 32' 31.5488" E
37	61	23° 09' 14.2619" N	81° 32' 33.1839" E
38	62	23° 09' 13.3136" N	81° 32' 38.4950" E
39	63	23° 09' 15.8190" N	81° 32' 39.9124" E
40	64	23° 09' 16.9098" N	81° 32' 41.9127" E
41	65	23° 09' 17.3019" N	81° 32' 43.1916" E
42	11	23° 09' 30.1532" N	81° 32' 45.5834" E
43	10	23° 09' 32.9089" N	81° 32' 39.3913" E
44	9	23° 09' 37.4135" N	81° 32' 33.4461" E
45	8	23° 09' 40.3917" N	81° 32' 31.6768" E
46	7	23° 09' 42.6121" N	81° 32' 30.6499" E
47	6	23° 09' 47.4675" N	81° 32' 29.9346" E
48	5	23° 09' 50.7186" N	81° 32' 33.2096" E
49	4	23° 09' 53.3312" N	81° 32' 35.4021" E
50	3	23° 09' 55.9028" N	81° 32' 37.8564" E
51	2	23° 09' 59.7071" N	81° 32' 44.1895" E


Colliery Manager
Bangwar UG Mine


Dy. Manager (Survey)
Bangwar UG Mine



SOUTH EASTERN COALFIELDS LIMITED

(A Subsidiary of Coal India Limited) (Maha Ratna Company)

साउथ ईस्टर्न कोल फील्ड्स लिमिटेड

Office of the General Manager, Sohagpur Area

कार्यालय महाप्रबंधक-सोहागपुर क्षेत्र

P.O. Dhanpuri, Distt. Shahdol(M.P.), Pin 484114

Tel : (07652) 250302 Fax : 250882

Regd. Office : Seepat Road, P.B. No.60 Bilaspur -495001 (CG)

No. SECL/SGP/Bangwar UG/2024/ 1133

Dated : 31-01-24

प्रति,

वन परिक्षेत्राधिकारी

वन परिक्षेत्र बुढार

विषय :- एस.ई.सी.एल. सोहागपुर क्षेत्र के अन्तर्गत बंगवार भूमिगत खदान के 36.734 हे० वन भूमि के व्यपवर्तन हेतु।

संदर्भ :- आपका पत्र कं. 1331 दिनांक 08.12.2023

महोदया,

विषयान्तर्गत संदर्भित पत्र के तहत वन परिक्षेत्र बुढार के अन्तर्गत भारत सरकार के बिन्दु कं. VII के अनुसार 20.432 हे० गैर वन भूमि तथा 38.302 हे० वन भूमि की KML file की softcopy वनपरिक्षेत्र बुढार की website- Rot Burhar@mp.gov.in में e-mail के माध्यम से एवं hardcopy तथा Co-ordinates प्रतिहस्ताक्षरित चार प्रतियों में सादर प्रेषित है।

सादर अनुरोध है कि प्रस्ताव को वरिष्ठ कार्यालय अग्रेषित करने की कृपा करें।

भवदीय

व.प्र. (व.प्र.)

9/1/24
उपक्षेत्रीय प्रबंधक
बंगवार उपक्षेत्र
एस.ई.सी.एल. सोहागपुर क्षेत्र



SOUTH EASTERN COALFIELDS LIMITED

(A Subsidiary of Coal India Limited) (Maha Ratna Company)

साउथ ईस्टर्न कोल फील्ड्स लिमिटेड

Office of the General Manager, Sohagpur Area

कार्यालय महाप्रबंधक-सोहागपुर क्षेत्र

P.O. Dhanpuri, Distt. Shahdol(M.P.), Pin 484114

Tel : (07652) 250302 Fax : 250882

Regd. Office : Seepat Road, P.B. No.60 Bilaspur - 495001 (CG)

No. SECL/SGP/SUR/2023/ 80

Dated : 30/10/23

प्रति,

श्रीमान् वनमण्डलाधिकारी
वनमण्डल दक्षिण शहडोल

विषय :- एस.ई.सी.एल. सोहागपुर क्षेत्र के अन्तर्गत 36.734 हे० वन भूमि के व्यपवर्तन हेतु।

शाखा :- D.M. संदर्भ :-

दिनांक :- 31/10/23

ब० न० अ०

- 1). भारत सरकार पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय नई दिल्ली का पत्र कं. 8-196/1984-FC (Vol) Dtd. 28.07.2023
- 2). आपका पत्र कं. मा.चि./ 2023/ 4872 शहडोल दिनांक 21.08.2023

महोदय,

विषयान्तर्गत संदर्भित पत्र कं.2 के द्वारा चाही गई बिन्दु कमांक i(C), iii, iv, v, vi, vii, viii, ix, x की जानकारी चार प्रतियों में उपक्षेत्रीय प्रबंधक, अमलाई-बंगवार-दामनी उपक्षेत्र से प्राप्त किया जाकर आवश्यक कार्यवाही हेतु सादर प्रेषित है।

भवदीय

महाप्रबंधक

एस.ई.सी.एल. सोहागपुर क्षेत्र



भारत सरकार पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय नई दिल्ली का पत्र क्रं. 8-196/1984-FC
(Vol) Dtd. 28.07.2023 के अनुसार चाही गई बिन्दुवार जानकारी निम्नानुसार है।

SN.		
I	After examination of the compliance of conditions stipulated in the final/ Stage-II approval issued by the Ministry vide its letter no dated 8-196/1984 Fry (Cons) dated 15.12.1986, the following documents/ information are required to be submitted:	
a	In compliance of condition no.3 the copy of notification of 3.295 ha Non-forest land (Compensatory Afforestation area) as RF/ PF, against surface utilization of 3.295 ha out of 513.296 ha approved forest land has not been submitted, which is required to be done.	वन विभाग से सम्बंधित है।
b	In compliance to condition no. 3 the status of Compensatory afforestation (CA) which was proposed to be raised over the Non-forest land against surface utilization of 3.295 ha out of 513.296 ha approved forest land shall be submitted.	वन विभाग से सम्बंधित है।
c	In compliance of condition no.4 the status of reclaimed restored mine area is required to be submitted.	चूंकि भूमिगत खदान का संचालन किया जा रहा है। अतः reclamation भूमिगत खदान के लिये लागू नहीं होता है।
II	The KML file of 3.296 ha diverted forest land for surface rights as well as the CA carried out over the Non-forest land against surface utilization of 3.296 ha shall also be submitted.	उपसंगीय निर्माण हेतु व्यपवर्तित 3.296 हे० वन भूमि की KML file ई-मेल के माध्यम से प्रेषित की जा रही है। दैकल्पिक वृक्षारोपण वन विभाग के द्वारा किया जाता है।
III	As per the records, total 513.296 ha forest land was diverted earlier for under-ground coal mining which includes 3.296 ha forest land for surface rights but the State Govt. has reported that the mining work is going on 315.347 ha forest land. Hence, the status of balance 197.949 ha forest land shall be submitted.	भारत सरकार पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय नई दिल्ली के द्वारा व्यपवर्तित 513.296 हे० में से 315.347 हे० में ही खदान संचालित है, जिसमें से 3.296 हे० वन भूमि का उपयोग उपसंगीय निर्माण हेतु किया है, शेष 197.949 हे० व्यपवर्तित वन भूमि पर आगामी वर्षों में खदान विस्तारीकरण/ कोयला उत्खनन की कार्यवाही की जावेगी।
IV	The State Govt. has submitted the land schedule of 488.108 ha area wherein the 38.302 ha forest has been shown as diverted. However, the present status of this 38.302 ha diverted forest land has not been submitted. The status of compliance of the conditions stipulated in the approval accorded under FCA,1980 is also required to be submitted.	खदान के विस्तारीकरण के लिये वर्णित कुल क्षेत्रफल 488.108 हे० में 38.302 हे० वन भूमि भारत सरकार पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय नई दिल्ली के पत्र क्रं. 8-125/85-fc dtd. 13.04.1987 के द्वारा व्यपवर्तित वन भूमि 403.118 हे० का अंशभाग है, जो खदान के विस्तारीकरण के लिये प्रस्तावित 36.734 हे० वन भूमि तथा 20.432 हे० निजी भूमि से लगा है। शर्तवार पालन प्रतिवेदन संलग्न है।
V	It is learnt that the total area (Forest + Non-forest) reported in the Mining plan is 514.481 ha whereas the State Govt. reported mining lease area as 488.108 ha. Further, as per records 513.296 ha	परियोजना का कुल क्षेत्रफल मात्र 488.108 हे० है तथा परियोजना के बाहर निजी भूमि 26.373 हे० में उप-संगीय निर्माण कार्य परियोजना के लिये किये गये हैं, जिसे जोड़ कर खनन योजना में वन एवं गैर वन भूमि (488.108 + 26.373) कुल 514.481 हे० लेख किया गया है।

<p>forest land has already been diverted in favour of present user agency and the extant proposal has been submitted for diversion of 36.724 ha forest land. Therefore, details of total mining lease area vis-à-vis total forest land within lease along with the KML files shall be submitted.</p>	परियोजना का कुल क्षेत्रफल 488.108 हे० का वर्णन निम्नानुसार है।				
	कं.	रकबा (हे०में)	वैधानिक स्वरूप	विशेष अभियुक्ति	
	1	2	3	4	5
	(i)	315.347 (513.296 का भाग)	वन (आरक्षित)	व्यपवर्तित	399.545 Ha.
	(ii)	38.302 (403.118 का भाग)	वन (आरक्षित)	व्यपवर्तित	
	(iii)	36.734	वन (आरक्षित)	प्रस्तावित	
	(iv)	9.162	वन (आरक्षित)	अव्यपवर्तित / आवश्यक नहीं	
	(v)	47.934	शासकीय + निजी	अधिग्रहीत नहीं / आवश्यक नहीं	88.563 Ha.
	(vi)	0.848	शासकीय + निजी	अधिग्रहीत नहीं / आवश्यक नहीं	
	(vii)	0.879	शासकीय + निजी	अधिग्रहीत नहीं / आवश्यक नहीं	
(viii)	20.432	शासकीय + निजी	अधिग्रहीत		
(ix)	18.470	शासकीय + निजी	अधिग्रहीत		
कुल	488.108		कुल	488.108 Ha.	
<p>इस प्रकार वास्तविक क्षेत्रफल 488.039 हे० के स्थान पर 488.108 हे० पढ़ा जावे। व्यपवर्तित 513.296 हे० वन भूमि में से 315.347 हे० वन भूमि का उपयोग किया जा रहा है, जो कि परियोजना के कुल क्षेत्रफल 488.108 हे० के अन्दर है तथा खदान के विस्तारीकरण हेतु 36.734 हे० वनभूमि प्रस्तावित है।</p>					
VI	As per satellite imagery, the presence of coal processing plant and some built-up area within the Mine lease boundary are clearly visible and part of the processing plant and built-up area are falling on the forest land. The reason for including the same in the mine lease boundary if the same does not belong to the present user agency shall be submitted.	भारत सरकार के द्वारा कुल व्यपवर्तित वन क्षेत्र 513.296 हे० में ही प्रश्नाधीन 3.296 हे० वन क्षेत्र सम्मिलित है, जिसमें अनुमोदित माईन प्लान के अनुरूप ही उपसंगीय निर्माण (Sub Area Office, fan house, service building, incline) आदि निर्मित हैं। उपरोक्त के अतिरिक्त कोई निर्माण कार्य व्यपवर्तित वन क्षेत्र के अन्तर्गत नहीं किया गया है।			
VII	As per DSS analysis, it has been observed that some part of the Non-forest land (20.432 ha) is falling in the forest compartment No. 833 & 834, Burhar Range, South Shahdol Division. Therefore, KML file of 20.432 ha Non-forest land in the present proposal needs to be looked upon based on the records/ ground trothing and factual position shall be clarified.	गैर वन भूमि 20.432 हे० के कुछ भाग में वृक्ष हैं जो कि जंगल प्रतीत होता है परन्तु वन भूमि नहीं है, वास्तव में यह उपखण्ड व्यपवर्तित 403.118 हे० वनभूमि के अंशभाग 38.302 हे० से लगा हुआ है, इसलिये DSS Analysis में भ्रामक स्थिति प्रस्तुत कर रहा है। 20.432 हे० गैर वन भूमि एवं 38.302 हे० वन भूमि की KML file ई-मेल के माध्यम से प्रेषित की जा रही है।			
VIII	The Mining plan was approved in the year 1995. Hence, the relevance of the same in view of the technological advancement in the subsequent years is required to be examined. The State Govt. shall examine the matter and	तकनीकी प्रगति के मद्देनजर प्रासंगिकता की जाँच हेतु स्वीकृत खनन योजना तथा माईन क्लोजर प्लान संलग्न प्रेषित है तथा reclamation खुली खदान के लिये लागू होता है। 36.734 हे० वन भूमि भूमिगत खदान विस्तारीकरण हेतु प्रस्तावित है।			

	submit a revised Mining plan along with Progressive mine reclamation/ closure plan.	
XI	The copy of the detailed land use plan in 1:4000 scale as submitted is not legible. The legible copy of the same shall be uploaded on PARIVESH.	1:4000 के स्केल में Land use plan की सुपाठ्य प्रति हार्ड कापी में तथा pdf file ई-मेल के माध्यम से प्रेषित की जा रही है।
X	The extant project though proposes mining by Underground methods, which has significant impacts on surface. Maximum subsidence up to 5.68 m has been reported in the report which may have adverse impact on the above ground vegetation and hydrological regimes of the area. However, no detail/ studies to predict the impact of subsidence on vegetation and hydrological regimes are available in the proposal and same needs submission.	वनस्पति और जल विज्ञान व्यवस्था पर तत्समय अवतलन की स्थिति में संयुक्त निरीक्षण पश्चात् वैकल्पिक वृक्षारोपण की राशि तथा शुद्ध वर्तमान मूल्य की राशि का भुगतान किये जाने बावत् आवेदक संस्थान वचनबद्ध है।

उपरोक्तानुसार चाही गई जानकारी आवश्यक कार्यवाही हेतु सादर प्रेषित है।


 उपक्षेत्रीय प्रबंधक
 अमलाई-बंगवार-दामनी उपक्षेत्र

PROJECT REPORT

FOR

BANGWAR UNDERGROUND

SOUTH EASTERN COALFIELDS LIMITED
(A MINI RATNA COMPANY)
SOHAGPUR AREA

CMPDIL, RI – V
(A SUBSIDIARY OF COAL INDIA LTD.)
BILASPUR (M.P.)- 495001

साऊथ ईस्टर्न कोलफील्ड्स लिमिटेड
South Eastern Coalfields Limited

12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100



LECLIDSP:DD:SECV:79DMEHT:95: ३२४

EXTRACT OF THE MINUTES FOR THE 79TH MEETING OF THE BOARD OF DIRECTORS OF SOUTH EASTERN COALFIELDS LIMITED HELD ON THURSDAY THE 19TH OCTOBER, 1995, AT 11.00 A.M. AT BILASPUR.

ITEM NO. 79.4.18

SUB: Revised Project Report for Bangwar UB Project (0.36 MTP), Bahagpur Area.

Approved.

Copy to

- ✓ 1. CGM (P.P.)
- 2. GM (F).

[Handwritten Signature]
30/10/95
General Manager
South Eastern Coalfields Limited
BILASPUR

✓ ACME (P.P.)

[Handwritten Signature]

[Handwritten Signature]

20/10/95

Project Report

15

EXECUTIVE SUMMARY

INTRODUCTION

Bangwar underground project falls under the administrative control of Sohagpur Area, SECL and block area being 4.33 Sq.Km. Bangwar UG Project Report for a target production of 0.65 Mte/annum with a capital investment of Rs.2514 lakh had been approved by competent authority in May 1985. The project was to achieve target by 1989-90. Due to the non-acquisition of forest land the project was initially delayed by more than 30 months.

The approved report has been prepared on the basis of 26 boreholes and during the main dip drivage numerous minor faults have been encountered. As advised by the production company extensive drilling was undertaken and 267 boreholes involving more than 25000m had been drilled in the block area. About 32 faults of throw ranging from 2m to 20m have been deciphered. By this drilling, certain changes in grade, thickness, faulting, structure of coal seam and coal reserve has also been revealed. The project is in Revenue A/c w.e.f. 1.4.92 and the production achievement in 94-95 was 0.184 Mte. The head-wise capital invested so far as submitted by the area alongwith the sanctioned capital is detailed below :-

(Amount in Rs.Lakhs)

SL. PARTICULARS No.	EXISTING	AS PER APPROVED REPORT (May, 1985)
1. Land	3.248	82.50
2. Service Buildings	87.488	43.38
2.1 Residential Buildings	360.690	252.77
3. Plant & Machinery	663.866	1419.40
4. Vehicles	10.087	13.41
5. Furniture & Fittings	5.915	3.30
6. Prospecting & Boring	43.589	21.05
7. Railway siding	nil	420.00
8. Mine Development :		
8.1 Capital outlay	154.766	154.38
8.2 Roads & Culverts	81.7	23.64

Deo
GIRD
13/11/92

COLLIERY MANAGER
Bangwar, U/G Mine

Scanned by CamScanner

..S/2..

SL.NO.	PARTICULARS	EXISTING	AS PER APPROVED REPORT
8.3	Water supply arrangement & Sewage disposal.	24.05	50.32
8.4	EMP	6.32	Nil
8.5	R & D, FRP cost etc.	6.66	74.87
9.	Revenue nature expenditure to be capitalised	438.478	(-)44.64
GRAND TOTAL		1886.857	2514.38

CMD, SECL has written one letter No.CMD/SECL/ES/17/95/806 dated 30.5.95 to CMD, CMPDI.

Quote

"This matter had been discussed at the project review meeting taken by Secretary(Coal) on 24.5.95 and I had submitted that it will be prudent to derate the project to an ultimate production level of 0.36 MT and restrict the capital expenditure to Rs.25.00 crores which will be well within the sanctioned investment. We have prepared a note on the subject and the same is enclosed herewith along with a copy of the plan."

Unquote

Bangwar Project has already been discussed with Secretary, Department of Coal on 24.5.95 and observation made is as follows:-

Vide Minutes of Meeting No.43012/8/95-CPM, Government of India, Ministry of Coal dated 20.6.95.

Quote

"Delay in Bangwar is due to bad geological condition met underground. He also mentioned that RPR for Bangwar with derated capacity of 0.35 Mte is under formulation."

Unquote

It was also suggested by Production company that railway siding and other infrastructure like elaborate coal handling plant etc, may be dispensed with as it is not


COLLIERY MANAGER
Bangwar, U/G Mine
SECL

Scanned by CamScanner

..S/3..

required for this project after derating. CMD, CMPDI agreed to the views expressed by CMD, SECL and it was decided that a fresh thought will be given to this project and a Revised Project Report will be prepared for a target production of about 0.36 to 0.40 Mty, utilising the available infrastructure at the project site and with a minimum fresh input in the project for achieving revised target.

MARKETABILITY

The production capacity of this project has been revised to 0.36 Mty. However, at the time of forecasting, the demand and availability of coal from SECL, the production from this project has been considered as 0.65 Mte. At present this project is linked with miscellaneous consumers. The expected grade of coal produced will be Steam 'C' grade and Slack 'D' grade 50% each.

As per new demand & production programme circulated by Coal and Lignite Groups for VIIIth and IXth Plan period (Coal India), the gap between demand and production at the end of VIIIth plan is (-)1.115 MT and at the end of IXth plan is +21.445 MT.

Standing Linkage committee has not considered the demand of new power station likely to come up which are Raipur Alloy at Korba, L & T at Bhilai, RPG at Korba, Satpura Expn, Grasim Industry Power Plant, etc. The demand of these power plant will be nearly 20 MT at the end of IXth plan.

Marketing of this coal will not pose any problem as this coal can be easily linked with Sanjay Gandhi Super Thermal Power Station or any other superior grade coal consumer. At the same time, demand and production from CIC is just matching.

LOCATION

This project is the part of Dhanpuri Block-II located in Sohagpur Area in Shahdol District of Madhya Pradesh. The block is bounded by N latitudes $23^{\circ}08'45''$ and $23^{\circ}09'45''$ and E Longitudes $81^{\circ}31'20''$ and $81^{\circ}33'00''$.

COMMUNICATION

The area is well connected by both rail and road. The nearest rail head is Amlai on Bilaspur - Katni section of S.E.Rly. The Amarkantak - Rewa road (metalled) passes approx.3 Kms. away in the Eastern part from the area under consideration.



COLLIERY MANAGER
Bangwar, U/G Mine
SECL

TOPOGRAPHY

Topography of the block is gently undulating. The elevation of the ground varies from 484.76m to 509.97m above Mean Sea Level.

DRAINAGE

Bhagaiya and Nargara nallahs control the drainage system of the area under consideration. The main stream of Bhagaiya nalla passes through the adjoining Dhanpuri Opencast Mine in the East. However, one branch stream of Bhagaiya also passes through the south-east corner of Bangwar mine. Nargara nalla passes more or less along the notified boundary in the west. The general slope of the ground is towards Bhagaiya Nalla.

CLIMATE

The Climate of the area is tropical. The maximum and minimum temperature during summer and winter generally varies from 46° C to 7.5° C. The average annual rainfall is around 1200mm.

NECESSITY ;

(i) The approved project report had been formulated on the basis of interim geological report with a borehole density of about 5.4 /sq.Km. During the time of main dip drivage, the workings encountered numerous faults and other geological disturbances and therefore extensive drilling had been undertaken and 267 borehole involving a total meterage of about 25000m had been drilled and it is seen that there are as many as 29 faults ranging in throw of 2m to 20m against 5 No. deciphered in the interim Geological Report.

(ii) It was also suggested that the railway siding will not be constructed in this project. It was also decided that instead of elaborate coal handling arrangement existing mini CHP will meet the needs of the project.

(iii) Due to the reduction in target, other infrastructures like service buildings, residential buildings have to be reassessed.

(iv) In the approved project report, coal cutting machine has been provided which may not be required in the present circumstances.


COLLIERY MANAGER
Bangwar, U/G Mine
SECL

..S/5..

(v) In the approved project report Load Haul Dumper had been provided. The performance of LHD in SECL was not encouraging and SECL had already mastered in the technology of SDL deployment. At present the mine deploys 10 SDLs. So, LHD can be replaced by SDL.

(vi) SECL also prefer pony conveyor, (small length, lower duty belt conveyor) instead of light duty chain conveyor.

Revision of the project report has become a necessity with changed geo-mining conditions like grade, thickness, faulting etc, unreliability of LHD & light duty chain conveyor, avoiding the construction of railway siding and elaborate CHP arrangement.

EXISTING STATUS

Bangwar project for a target production of 0.65 Mte with a capital investment of 25.1438 crore rupees has been sanctioned on 6.5.85. As per report, schedule date of completion was 1991. The production as per project report and as per actual is given below:-

Production Phasing (MT)	Year	85-86	86-87	87-88	88-89	89-90	90-91	91-92	92-93	93-94	94-95	95-96
PR Schedule	-	0.10	0.16	0.40	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
Actual	-	nil	nil	nil	0.0098	0.09	0.093	0.1489	0.2181	0.187	0.0615	(till 6/95)

As per projection, the total manpower deployment was proposed 1737 against this 976 has already been deployed. The total capital investment is as below:-

	Land	Stag.	P&M	F&F	Vehicle	Sdg.	Dev.	Expl.	EMP	Total
Prog. expd. till 5/95	0.0325	4.48178	6.63866	0.05915	0.10087	0.0000	7.11974	0.43589		18.8685

The loss per ton for 94-95 was Rs.(-)183.32/T and in 1995-96 upto July 95 was Rs.25.22/T.

DELAY:

Initial delay of more than 30 months in starting of project was due to delay in acquisition of 3.296 Ha forest land needed for inclines and other infrastructures. Coal seams traversed by a no. of faults in close succession in Main dip beyond 4th level as against 1 fault envisaged in Project Report. Coal seams also thinned out to less than 0.9m in some parts of the property.


COLLIERY MANAGER
Bangwar, U/G Mine
SECL

Scanned by CamScanner

MODE OF ENTRY

VI BOTTOM SEAM

VI bottom seam has been approached through 3 Nos. of inclines and an air shaft as detailed below:-

MINE ENTRY	SIZE	LENGTH/ GRADIENT/ DIA/DEPTH	PRESENT STATUS
a) Incline No.1	4.8mx2.4m	124 M(1 in 4)	148.83M
b) Incline No.2	4.8mx2.4m	175 M(1 in 5)	193.76M
c) Incline No.3	4.8mx2.4m	124 M(1 in 4.85)	155.00M
d) Air shaft		6m dia, 30m	27.00M/5.5m dia

VI TOP SEAM ENTRY

VI top seam has been approached by 2 nos. of drifts and 3 nos. staple pits from VI bottom seam.

Mode of entry	size/ Diameter	gradient/ depth	Length
Drift No.1/5L	2.4mx3.6m	1 in 5	80m
Drift No.3/5L	2.4mx3.6m	1 in 5	72m
Staple pit WCD/8L	4.0m dia	16.0 m	
Staple Pit ECD/8L	3.0m dia	16.0 m	
Staple Pit 2D/8L	3.0m dia	16.0 m	

VI top seam had also juxta-posed with VI (bottom) near Fault F14F14, having throw 9m; So, VI (top) seam has been approached directly from VI bottom seam at this point.

VII SEAM ENTRY

DRIFTING FROM VI TOP TO VII SEAM

COLLIERY MANAGER
Bangwar, U/G Mine
SECL

..S/7..

Drifting from VI top to VII seam is in progress and its status is given below:-

Drift No.MD	Length	size	gradient	Remarks
1/34L	80m	3.6m x 2.4m	1 in 5	Progress upto June 44m.
3/34L	80m	3.6m x 2.4m	1 in 5	30m

3 No. staple pits for ventilation, coal transportation will be sunk from 37th level.

METHOD OF WORK

Seam VI B has been developed by mechanised Bord & Pillar method of working. Coal is blasted off the solid and is loaded by SDL on to Pony belt conveyor and in turn to gate belt conveyor. The gate belt discharges coal on to the trunk belt conveyor and trunk belt conveyor discharges on to the main conveyor installed into Incline No.2.

VI top seam has come in juxtaposition to the working of VI bottom seam near 29th & 30th level and development in VI top seam is in progress. The throw of the fault F12-F12 is 9m. In VI top seam also same system of development as in VI bottom is proposed. VI top seam is also being developed by drift no. 1/5 L & 3/5 L.

At present 10 No. SDL and 11 No. Pony conveyor (22 KW) are installed in UG. Main ventilation fan of 8500-10000 cum/min, 75-100 mm water gauge has been installed.

CIVIL CONSTRUCTION

200 nos. of miner quarters have already been constructed and 210 are under construction and likely to be completed by August 95. 60 Nos. 'B' type quarters are already completed and 18 are to be completed by August, 95. 8 no. 'C' type and 1 no. 'D' type has also been constructed.

POWER

Substation building has already been constructed and 1 MVA 33 KV/3.3 KV transformer has been installed and 2nd 1 MVA transformer may be installed after repair.



COLLIERY MANAGER
Bangwar, U/G Mine
SECL

..S/8..

COAL DESPATCH

Decision has been taken to despatch coal from Burhar siding in the meeting held on 27.6.92. Interim CHP is having 2 x 100 te truck loading hoppers alongwith picking belt etc. It is proposed that no further extension will be required in the existing CHP as the production will only be 0.36 Mty.

PROPOSED BLOCK BOUNDARY

After detailed drilling in the Bangwar block, the mine boundary of the proposed project has been delineated on the basis of the existing adjoining mine working, proposed New Burhar No.3 incline scheme etc.

- South - Incrops of seam VI (bottom)
- North - Fault F30F30 of 15m-32m throw (partly) & F28F28 throw 13m-25m.
- West - 60m barrier with Nargarha nalla (For seam VI top limited to 1.2m thickness line).
- East - Western boundary of the opencast.

It is proposed that area North of the Fault F28F28 (15m-32m) throw and fault F3F3 throw 80m (south of Dhanpuri block) will be worked by Burhar No.3 scheme.

GEOLOGY

The Bangwar Block is a part of Sohagpur Coalfield and is mostly covered by this 15 x 20m cover of soil and detritalment. The gradient of coal seam generally varies from 1 in 8, 7° to 1 in 20 to 2° which occasionally flater gradient upto 1 in 40 at places.

FAULTS

A total of 31 normal faults had been interpreted to occur in the mining block.

Igneous intrusion, 7 dolerite dyke have also been encountered in the underground workings of Seam VI bottom. Though no dyke has been intersected in boreholes drilled in the block some more isolated dykes may be encountered during working.



COLLIERY MANAGER
Bangwar, U/G Mine
SECI

Scanned by CamScanner

..S/9..

SEQUENCE OF COAL SEAM IN BANGWAR BLOCK

Sequence of Coal Seams, Bangwar Block

Coal Seam	Thickness Range (m)		Remarks
	Minimum	Maximum	
Seam-IX	0.20 (CMSD-323)	3.43 (CMSD-373)	Interbanded, inferior quality. Has attained workable thickness in isolated patches.
Parting	7.15 (CMSD-292)	27.30 (CMSD-409)	
Seam-VIII	0.09 (CMSD-278)	2.35 (CMSD-418)	Has attained workable thickness in isolated patches.
Parting	36.65 (CMSD-502)	57.05 (CMSD-426)	
Seam-VII Top	0.08 (CMSD-414)	1.65 (CMSD-515)	Mostly thin and un-workable.
Parting	0.48 (CMSD-364)	17.00 (CMSD-507)	
Seam-VII Bot.	0.20 (CMSD-437)	4.20 (CMSD-505)	
Parting	8.73 (CMSD-422)	20.80 (CMSD-414)	
Seam-VI Top	0.16 (CMSD-286)	7.00	Occurs as combined Seam (VI Combined) in the northeastern part of the block.
Parting	1.00 (CMSD-368)	27.30	
Seam-VI Bot.	0.46 (CMSD-346)	4.70 (CMSD-501)	
Parting	0.30 (CMSD-356)	5.75 (CMSD-287)	
Seam-V	0.02 (CMSD-160)	0.80 (CMSD-418)	Mostly Thin and un-workable.

The uppermost coal horizon viz., Seam IX, Seam VIII, Seam VII Top are mostly unworkable in major part of the block, so not considered in Project Report.


 COLLIERY MANAGER
 Bangwar, U/G Mine
 SECL

..S/10..

SEAM VII BOTTOM

Seam VII bottom occurs below Seam VII top with a parting of 0.48m to 17m. Thickness varies from 0.2m to 4.2m. The seam has attained workable thickness of 1.2m in almost in whole area except small patches in North-Western, North-Eastern and Southern part of the block. The useful heat calorific value varies from 3131 to 6306 K.Cal/Kg. 75 samples has been analysed out of that 3 samples shows 'A' grade, 25 samples shows 'B' grade, 33 samples shows 'C' grade, 14 'D' grade, 1 sample shows 'E' grade, so the grade varies 'B' to 'C'.

SEAM VI TOP

The parting with overlain Seam VII bottom varies from 8.73m to 20.8m. The seam thickness varies from 0.16 to 7m. In the extreme western part of the block it reduces to unworkable thickness. Its thickness is 1.2m to 1.3m. Its useful heat value varies from 3490 to 5685 K.Cal/Kg. 72 samples has been analysed out of that one sample shows 'B' grade, 26 samples shows 'C' grade, 36 samples shows 'D' grade and 9 as 'E' grade. The grade varies from 'C' to 'E'.

SEAM VI BOTTOM

The parting with overlain seam VI top varies from 1m to 27.3m. The thickness of the seam varies from 0.46 to 4.7m. The UHV of the seam varies from 3131 to 630 K.Cal/Kg. 75 samples has been analysed, out of this 3 shows 'A' grade, 22 shows 'B' grade, 33 shows 'C' grade, 14 shows 'D' grade, 1 'E' grade and 2 shows 'F' grade. The grade varies from 'C' to 'D'.

SEAM VI COMBINED

Seam VI combined occurs in a small North-Eastern part of the block, where the parting between Seam VI top and VI bottom is less than 1m. Its UHV varies from 4539 to 5008 K.Cal/Kg.

LONGFLAME CHARACTERSTICS

As per test results the VM% of seam VI bottom, VI top, VI bottom and VI combine is +32% with an exception of nearly 30.5% in few borehole samples. This coal falls under the B-5 group and high moisture coal. The analysis satisfy the parameters of group B-5 longflame.



COLLIERY MANAGER
Bangwar, U/G Mine
SECL

..S/11..

Roof and Floor of coal seams

Roof and floor of coal seams

Seam	Roof		Floor	
	Immediate	Upto 3m	Immediate	Upto 1m
VII B	Carb.shale Grey shale	Carb.shale, coal Grey shale, fine grained sandstone, medium grained sandstone	Fine grained sandstone, medium grained sandstone, grey shale, sandy shale	Fine to medium grained sand- stone, sandy shale
VI Top	Fine, medium and coarse grained sandstone, carb shale	Fine, medium and coarse grained sandstone	Sandy shale, carb.shale, grey shale, fine grained sand- stone	Sandy shale, grey shale, carb.shale, Intercalation of shale & sandstone.
VI Bottom	Medium to coarse grained, sandstone, carb.shale sandy shale	Fine, medium and coarse grained sandstone	Grey shale, sandy shale, carb.shale Intercalation of shale and sandstone	Sandy shale, grey shale, carb.shale Intercalation of shale & sandstone.

RESERVES (Within mining block)

PROVED RESERVES

Seamwise, Gradewise proved reserves (considered more than 1.2m thickness).

Seams	Grade B		Grade C		Grade D		Grade E		Total	
	Ar		R		Ar		R		Ar	
	Ar	R	Ar	R	Ar	R	Ar	R	Ar	R
VII B	0.8189	2.1394	2.0446	5.4262	0.4532	1.2440	0.0000	0.0000	3.3167	8.8096
VI (Top)	0.0000	0.0000	0.8536	2.8456	1.8195	6.2824	0.2282	0.6772	2.9013	9.8052
VI (Bottom)	0.1187	0.2659	1.3724	4.4147	2.3429	9.2217	0.2622	1.1461	4.0962	15.0484
VI (Combined)	0.0000	0.0000	0.0393	0.4857	0.1986	2.2292	0.0000	0.0000	0.2379	2.7149
TOTAL	0.9376	2.4053	4.3099	13.1766	4.8142	18.9773	0.4904	1.8233	10.5521	36.3701

Handwritten notes and calculations:
 8.8096 + 9.8052 = 18.6148
 18.6148 + 15.0484 = 33.6632
 33.6632 + 2.7149 = 36.3781
 36.3781 - 0.0080 = 36.3701
 (Note: 0.0080 is derived from 0.8189 + 0.1187 = 0.9376)

Ar - Area in sq.km, R - Reserves in MT

METHOD OF WORK

At present, Seam VI Bottom and VI Top is being developed by Bord and Pillar System of mining and the same has been proposed for VII Bottom Seam as well. The pillar size is proposed to be 26.5 m x 26.5 m centre to centre with a gallery width 4.5 m and height 2.5 m (or seam thickness). In virgin patch rectangular pillar of size 12.5 x 37.5 m may be formed subject to approval of DGMS. Blasting of the solid with delay detonator and proper blasting pattern with SDL for coal loading has been proposed. The SDL will load coal either on pony conveyor or in mine tubs. The number of headings per panel generally will be six, however, depending on geological conditions, they may vary from 3 to 8. Production per panel is taken as 400 tpd. At a time, 3 number of panels are proposed to be worked either two panels in seam VII bottom and one panel in VI top or vice versa.

CAPACITY

<u>Particulars</u>	<u>Development</u>	<u>Depillaring</u>
No. of panels	2/1	2/1
Production (tpd/Panel)	400	400
Max. Production (tpd)/panel	421	457
Total No. of panels to be worked at a time		3
Total Production	= 3 x 400	= 1200 tpd
Production per annum	= 1200 x 300	= 0.36 MT

MINING SCHEDULE

The production from VII Bottom, VI Top and VI Bottom may be as follows :

Year	<u>Production in lakh T</u>			
	95-96	96-97	97-98	98-99
VII Bottom		0.09	1.8	1.8
VI Top	1.2	1.8	1.8	1.8
VI Bottom	1.9	0.09	Nil	Nil
Total	3.1	3.6	3.6	3.6



COLLIERY MANAGER
 Bangwar, U/G Mine
 SECL

..S/13..

EQUIPMENT PROFILE

The major equipment in the project is tabulated below :

Equipment	Number
Standard Height SDL	9
Low height SDL	3
Roof bolting machine	6
Endless haulage, 30 KW/37 KW	3
Pony conveyor, 22 KW, 100 m, 800 mm, 100 TPH	11

VENTILATION

The total number of panels proposed to be worked at a time in two seams will be 3. The total quantity of air required in the panel will be around 60 cum per second. A fan of 130 cum, 100 mm water gauge, 200 KW motor is proposed to be installed in the existing fan drift.

TRANSPORT

At present, seam VI B has been approached by 3 No. inclines and one air shaft. 1000 mm 2x90 KW belt conveyor 200 TPH, 2 m per second speed is installed in incline No. 2. This belt conveyor discharged coal into a small hopper. Another belt of 1000 mm, 2x90 KW, 260 TPH, 2 m per second is installed in tandem. One more belt of similar capacity is proposed to be installed in tandem of 2nd belt conveyor. Coal at the face is proposed to be loaded by SDL onto pony conveyor discharging onto small belt conveyor or SDL loading coal in mine tubs. For material transport endless haulage of adequate capacity has been provided into gate and trunk roadways. For material transport at the surface 37 KW haulage has been installed in incline No.3.

PUMPING

No hydrogeological survey has been conducted in this block. However, seams do not appear to be very watery. The make up of water is works out to be 66 LPS. The pumping capacity of 130 LPS with 100% standby has been provided. At present, 5 number 38 LPS, 100 m head pumps are installed which may be replace by 38LPS, 100 m head, 82 KW pumps. The sump capacity is proposed to be 8500 cum.


COLLIERY MANAGER
Bangwar, U/G Mine
SECL

SAFETYGAS & VENTILATION

The seams are assumed to be degree 1 gassy. For ventilation calculation, gas make up of 1 cum per tonne has been assumed. Adequate number of auxiliary fans etc. has been provided to keep the headings well ventilated. CO - detector, methanometer etc. has been provided for monitoring the mine environment.

TREATMENT OF COAL DUST

Water spraying arrangement at the vulnerable point has been provided alongwith non-combustible dust spraying in underground workings where water spraying is not feasible.

FIRE

To avoid any heating/fire sluggish ventilation has been avoided and working will be adequately and timely isolated after completion of panel. Cable of adequate sizes alongwith proper insulation with proper type of joint boxes etc. has to be used in the mine.

TRAINING

SDL is being used in the mine. However, refresher training will be given to workers and officers for efficient use of the SDL.

SURFACE COAL HANDLING & DESPATCH ARRANGEMENT

At the surface, there is 2 x 100 tonne truck loading hopper. From there coal is despatched to Burhar siding by contractual trucks. Burhar siding is above 3 kms away from the project.

POWER SUPPLY

Project receives power at 33 KV from nearby Dhanpuri Opencast Project which is 3 kms away. The maximum demand works out to be approximately 1600 KW. The energy consumption at target level of production works out to be 19.70 KWH per tonne of coal production. In main substation two number of 1000 KVA 33/3.4 KV transformer are installed. This has to be replaced by 1600 KVA 33/3.4 KV transformer.


COLLIERY MANAGER
Bangwar, U/G Mine
SECL

..S/15..

For improving the power factor individual capacitor may be installed with big motor to achieve desired level of power factor improvement. KVA demand at 0.8 power factor with maximum demand of 1600 KW works out to be 2000 KVA. If we increase power factor to 0.92 then KVA demand will be 1739. Thus, there will be saving of 261 KVA.

CIVIL CONSTRUCTION AND WATER SUPPLY

At present, 497 quarters are under construction or already constructed. The total number of workers for 0.36 MT are proposed to be 1100. 60% housing satisfaction has been taken for category workers because most of the workers will be transferred from other existing collieries of SECL. The total housing satisfaction works out to be about 61%. Service buildings more or less have been completed. However, water supply for additional quarters will have to be provided. Road and culverts for additional quarters have also to be constructed. Necessary capital for these have been provided in the report.

MANPOWER PRODUCTIVITY AND TRAINING

As per approved report 1737 manpower were proposed and 976 are deployed so far. However, for 0.36 MT 1100 workers only will be needed. The overall OMS works out to be, 1.25. The workers and officers will be given refresher training as per statute.

LAND

The total area of Bangwar Block is about 433 Ha out of this about 400 Ha is forest land. As per observation of State Forest Research Institute, Jabalpur Compensatory Afforestation need not to be provided for this project. So, no compensatory afforestation land has been provided. About 50 Ha has already been acquired and few more Ha is to be acquired for residential building etc.

ECOLOGY AND ENVIRONMENTAL MANAGEMENT PLAN

An Environmental Management Plan for Bangwar Underground Project has been prepared in 1994. The area has already adopted two villages, namely, Bemouri and Bangwar for community development. The total expenditure for community development will be about 5.82 lakh. The investment under EMP head is proposed to be about 63.877 lakh. The impact of EMP on production cost works out to Rs 7 per tonne.


COLLIERY MANAGER
Bangwar, U/G Mine
SECL

CONSTRUCTION ACTIVITIES

The project is on-going project and major construction works have already been completed. However, drifting from VI top to VII bottom, sinking of staple pits etc. alongwith drifting in main roadways in VI top and in VII bottom seam are still to be undertaken. The zero date will be the date of approval of this Revised Project Report.

The phasing of production and manpower is given below :

Year	1st year	2nd year
Prodn. in Mte	0.31	0.36
Manpower phasing	992	1100

CAPITAL AND ECONOMICS

It is an on-going project and total sanctioned capital for 0.36 MT is Rs 2514.38 lakh. Out of this Rs 1886.857 had already spent by project upto August, 1995. The project has incurred a loss of Rs 183.32 per tonne in 94-95 and Rs.25.22/T in 95-96 upto July, 1995.

The total capital required to achieve the target production works out to be 2754.85, if we convert this capital to 84-85 level then it comes to 1470 lakhs. The proportionate capital for 0.36 MT against sanctioned capital works out to be 1392.58 lakh. These are very much comparable. The operating cost at target level of production works out to Rs 431.07 per tonne at an OMS of 1.25%. The economics at 100% and 85% is given below:-

	100%	85%
Production in Mt	0.36	0.306
Production cost Rs/t	431.07	496.45
Sale Price Rs/t	540.10	540.10
Profit Rs/t	109.03	43.65
IRR %	23.53	8.48
RI %	15.45	6.05
RE %	22.53	7.67
BEP%		77.26%
BEP Prodn. Mt		0.278 MT

CONCLUSION

The project is techno-economically viable and will achieve the target in 2nd year. Project is on-going and major development work has already been completed. Keeping all these factors in view, the report should be considered for approval.

1220


COLLIERY MANAGER
 Bangwar, U/G Mine
 SECL

Progressive Mine Closure Plan

CHAPTER- I

INTRODUCTION

1. Name of mine owner / company: -- *South Eastern Coalfields Limited.*
2. Address of Communication :-- *Office of the Director Technical (OP),
SECL Complex, Seepat Road,
Bilaspur (C.G),
Pin- 495006*

E-mail	:	<i>dto@seclhq.com</i>
Telephone	:	<i>07752 – 246303, 246304</i>
Fax No.	:	<i>07752-246453</i>

Location of mine: -- The Project is the western part of Dhanpuri-block II, located in Sohagpur of Shadol district of M.P. The area lies approximately between Latitudes N 23° 8' 45" & 23° 9' 45" and Longitude E 81° 31' 20" & 81° 33' 00".

3. Capacity of mine: -- 0.65 Mt per annum.
4. Date of start :
 - (i) Date of start of development work: 1987.
 - (ii) Date of start of production; 1989
5. Production built-up- 1996 - 97
6. Percentage recovery of coal : Total output / Total Reserve:

= 55%

7. Geological Reserves (MT) : 36.3781Mte

Mineable Reserves (MT)	: 18.18 Mte
Balance Extractable Reserve:	13.63Mte as on 01/04/2010.
Grade	: "C" & "D"

8. Method of Mining including equipments deployed: --

Under ground mining with Bord & Pillar method of working using SDLs, LHDs, and loading on belt conveyor.

9. Coal processing / beneficiation operation (brief description)

- Not applicable.

10. Total Project Area involved: - 514.481Ha. (Refer land use plan in plate - 1). The detail break up is given in table - 1.1 below.

Table - 1.1

Sl.No.	Particulars of land	Area in Ha.
1	Mine Area	487.806
2	Infrastructures (Outside Mine area)	8.841
3	Township area (Outside Mine area)	17.834
Total IProject area		514.481

11. Type of Project Area (ha) (indicate within and outside mine take area)

Particulars of land is given below in table - 1.2.

Table - 1.2

Sl. No.	Particulars of land	Area in Ha.		
		Within	Outside	Total
1	Forest land	403.447	0.88	404.327
2	Non-forest land - Govt. land	1.331	5.273	6.604
3	Non-Govt. / private land	83.028	20.522	103.550
Total		487.806	26.675	514.481

14. Communication and physiography of the area - (from P.R. and enclose location plan.

Communication: The area is well connected by a both rail & road. The nearest rail head is Amlai on Bilaspur - Katni Branch Line of S.E.C.Rly. The Amarkantak - Rewa road (metalled) passes approx. 3Km. away in the eastern part from the area.

Physiography: The area has a gently undulating topography. The average elevation of the area ranges from 484.76m to 509.97m above msl. The average annual rain fall is 1200mm and most of it falls during June and October. The temperature ranges from 7.5^o to 46^o.

Drainage : Bhagaya & Nargara nala controls the drainage system of the area under consideration. The main stream of Bhagaya nala passes through the adjoining Dhanpuri OCM in the east. However, one branch stream of Bhagaya nala also passes through south - east corner of the Bangwar mine. Nargara nala passes more or less along the notified boundary in the west. The general slope of the ground is towards Bhagaiya nala.

15. Type of present land use (pre/existing and post -closure land use)

The proposed pre-mining / present land use-plan has been given below in table 1.3 and the conceptual post mining land use is given in table 1.4.

Tables 1.3
Pre-mining / Present Land Use (Figures in Ha.)

Sl. No.	Particulars	Forest Land	Tenancy Land	Government Land				Grand Total
				Grazing land	Waste land	Water body	Others	
1	U.G Mine	403.447	83.028	1.331	0.00	0.00	0.00	487.806
2	Safety zone	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	External dump	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Infrastructure, Colony etc	0.88	20.522	5.273	0.00	0.00	0.00	26.675
Total Land for the project		404.327	103.550	6.604	0.00	0.00	0.00	514.481

Table-1.4
Post Mining Land Use **Figures in Ha.**

Sl. No.	Particulars	Mine Area (After backfilling & reclamation)	Safety zone as green belt	*Infrastructure, Colony, Explosive magazine etc.	R&R site	Grand Total
1	Afforested area	487.806	0.00	26.675	0.00	514.481
2	Cultivable Land	0.00	0.00	0.00	0.00	0.00
3	Final Void(Water Body)	0.00	0.00	0.00	0.00	0.00
4	Other Water Bodies	0.00	0.00	0.00	0.00	0.00
5	Built-Up Area.	0.00	0.00	0.00	0.00	0.00
Total Land for the project		487.806	0.00	26.675	0.00	514.481

16. Statutory approvals (Attach Copy)

- a) Mine plan / F.R / P.R: - Not available since it is an old existing mine
- b) Forestry clearance: -Given in Annexure - I
- c) Env clearance: -Given in Annexure - II
- d) Consent to operate: -Given in Annexure - III
- e) Any other approval from Central / State regulatory authorities for operating mine with special reference to mine closure. - Nil.

17. Reason for Mine closing operation (specify)

This is a running mine and balance life is 35 years as on 01/04/2010. This is a progressive mine closure plan.

a) Exhaustion of mineral (Details like Mineable reserve, balance reserve, life of mine and likely period exhaustion.

- (i) Mineable reserves : 18.18 Mte
- (ii) Already extracted (till 31/03/2010). : 4.55 Mte.
- (iii) Balance extractable reserve (As on 01/04/2010) : 13.63 Mte.
- (iv) Balance life of mine (As on 01/04/2010). : 35 years

b) Lack of demand (Details of global, National and local scenario of coal demand and reason for closure

- Not applicable

c) Uneconomic operation (Details of production cost, selling cost and reason for discontinuation.)

- Not applicable

d) Natural Calamity (Details of natural calamity or disaster or any safety reason

- Not applicable

e) Directives from Statutory organization or Courts. (Details should be furnished)

- Not applicable

18. Approval of Company Board of Directors or any other competent authority (Attach Copy)

Since, this is a running mine and the balance life is 35 years as on 01/04/2010, progressive mine closure plan has been prepared. Approval for mine closure would be required before preparation of final mine closure plan.

=====



COLLIERY MANAGER
Bangwar, U/G Mine
SECL

CHAPTER-II

MINE DESCRIPTION

2.1. Geology of Mining Area

a) Geology: Details of Geological seams, Geological reserves, faults, and bore hole details: (with drawings)

Bangwar block is a part of Sohagpur coalfield and is mostly covered by 15 to 20m cover of soil. The gradient of the coal seam generally varies between 1 in 8.7^o to 1 in 20^o.

Faults:

Altogether, 32 normal faults have been interpreted to occur in the block. Igneous intrusion have also been encountered in VIB seam.

Description of Seams:

Seam-V, VI, VII, VIII & IX in ascending order have attained identifiable thickness in Bangwar block. Seam-V, though persistent has not attained workable thickness in the block. The thickness of Seam-V is generally less than 0.5m. Seam-VI which is the most important coal seam in Amlai-Burhar sub-basin occurs in two split sections, viz. VI Top and VI Bottom in the major part of the block except a small portion in north-eastern part, where it occurs in combined forms VI combined. Seams VI Top and VI Bottom have attained workable thickness over a major part of the area. Seam-VII also occurs in two split sections viz. VII Top and VII Bottom. Seam-VII Bottom has attained workable thickness in the block. Seams-IX and VIII occur in the northern part of the block area interbanded, inferior in quality and have attained workable thickness only in small isolated patches. Both the seams therefore, do not add to the mining potentiality of the area.

b) Reserves- ~~The total area of block is 10.5521 Sq. Km. and the total geological reserves as per RPR '95, is 36.3781Mt.~~

c) Seam and parting details

The details of Seam and parting are given shown in table – 2.1. (Refer bore hole log in plate - 2).

Table – 2.1

Seam	Thickness(m)	Parting(m)
IX	0.20 - 3.43	
		7.15 -27.30
VIII	0.09 -2.35	
		36.65 – 57.05

Seam	Thickness(m)	Parting(m)
		36.65 – 57.05
VII Top	0.08 – 1.65	
		0.48 – 17.00
VII Bottom	0.20 – 4.20	
		8.73 – 20.80
VI Top	0.16 – 7.00	
		1.00 – 27.30
VI Bottom	0.46 – 4.70	
		0.30 – 5.75
V	0.02 – 0.80	

d) Balance reserve - Balance reserves to be extracted (As on 01/04/2010) :
13.63 Mte.

e) Quality of coal – Average grade – 'C' & 'D'

2.2 Mining details

a) Mine boundary details – North: Fault F30 F30 of 15m - 32m throw (partly) & F28 F28 throw 13m - 25m.
East: Western boundary of the opencast.
South: In crops of seam VI Bottom.
West: 60m barrier with Nargarha nalla (For seam VI top limited to 1.2m thickness line)

b) Coal seams which has been worked out and virgin

- All the three seams i.e. Seam VIB, VIT & VIIB are being worked.

c) OB dumps and their status- - Not applicable

d) Water bodies and their status- - Not applicable

e) Maximum depth of the UG mines – 110m below ground level.

2.3. Mining Methods – The details should be as per PR with methods of mining and major equipments deployed and for UG the entry details.

Mode of Entry:

The working seams have been approached by several inclines and shafts.

Method of mining:

The mine is being operated by mechanized Bord & Pillar method with SDL/LHD & belt conveyor system.

2.4. Infrastructure details

- a) **CHP** - A CHP of 2 X 75 te truck loading hoppers alongwith picking belt etc. exists.
- b) **Workshop**- A unit workshop of 600-Sq.m is in operation with different shops.
- c) **Railway Sidings**- There is no railway siding for the mine; Burhar siding is 6.6 Km away from the mine.
- d) **Colony (number and type of quarters), Water supply arrangements (facilities available like treatment plan and its capacity.)**

Different types of quarters with water supply arrangement existing in the mine as shown in table - 2.2 below.

Table -2.2

M - Type	B - Type	C - Type	D - Type	Total Nos.
410 Nos.	78 Nos.	08 Nos.	01 No.	497Nos.

e) Details of non- residential building

The following non-residential structure exists as per PR of the mine.

1. Cap lamp room - 01No.
2. Manager's Office - 01No.
3. MTK & Pit Office - 01No.
4. CDS Building - 01No
5. Sub-Station & Fencing - 02 Nos.
6. Project Office:- 01No.
7. Canteen: - 01No.
8. MMV installation on S/F - 01No
9. SAM office - 01 No.
10. Weigh Bridge - 1No.
11. Unit Store Building - 1No.
12. Explosive Magazine - 1No.

f) **Other facilities (ETP /STP)** - Nil.

2.5. Details of coal beneficiation plant and its use after closure of mine

- Not applicable

2.6 Attach project summarized data and executive summary as per Project Report

- Summerrized data are given below in tables -2.3 & 2.4

Table – 2.3

Sl.No	Particulars	Unit	Value
1	Thickness of coal seam	M	
	Seam VII	M	0.20 – 4.20
	VI(T)	M	0.16 – 7.00
	VI (B)	M	0.20 – 4.20
2	Overburden/parting thickness	M	Parting between seam VI(Top) to VI(B) = 1.00 – 27.30 VII(B) to VI(T) = 8.73 to 20.80
3	Gradient (dip)		1 in 8 to 1 in 22
4	Average grade		C & D
5	Total Geological Reserve	Mty	36.3781
6.	Total mineable Reserve	Mty	18.18
7.	Balance reserves as on 01.04.10	Mty	13.63
8	Volume of OB 01.04.12	M.Cum.	NA
9	Balance OB as on		NA
10	Stripping Ratio(Av)	Cum/t	NA
11	Target Output as per RPR	Mt/Yr	0.36
12	Target OBR	M Cum/Yr	NA
13	Project life as on 01.04.10	Year	35
14	Main customers		Power plant
15	Total Project capital investment	Rs. Lakhs	2754.85
16	No. of manpower	Nos	1100
17	No. of houses	Nos	497
18	Method of Mining		Mechanized B&P with SDL & conveyor


COLLIERY MANAGER
 Bangwar, U/G Mine
 SECL

CHAPTER-III

CLOSURE PLAN

3.1 Closure Planning details of mine

3.1.1 Mined out Land & proposed final land use; -- described briefly

- a) Total Mined out area (Ha) - Development is going on
- b) Concurrently / backfilled area (Ha) - Not applicable
- c) Balance left mined out area (Ha) - Not applicable
- d) Land use of this balanced left mined out area- Not applicable
- e) Final Land use to be developed including water body in the last cut. - Not applicable
- f) Details of past subsidence and reclamation of subsided land (location of past subsided area should be enclosed).

Caving system of mining has been proposed in Bangwar Block. To keep the strain minimum or to avoid build up strain at a particular point, inter-panel barriers are proposed to be of such thickness that they may collapse after completion of extraction of adjacent panel. This creates a favorable condition of uniform caving and minimum damage to the surface. It has been observed by CMRS in Bord and Pillar working at lower depth, the maximum subsidence was observed at the start of the panel, not in the middle of the panel. This indicates that concentration of strain is near the solid pillar left. It is also proposed to keep the rate of advance higher so that sub-panel barrier may be avoided. However, with the help of Dozer and Tipper, the minor cracks at the surface created due to mining operations will be filled up and the ground shall be leveled. The existing flora & fauna may not be disturbed except towards the area where the mining infrastructures are built up. Extensive plantation has been proposed in this site to give aesthetic outlook.

The mine is existing one and presently, development is being done. However, during depillaring, after extraction of coal pillars, considering the impact of subsidence, the following steps would be taken to minimize any adverse effects.

- i) Sufficient coal pillars would be left un-extracted below the important surface structures, if any, to protect it from subsidence damage.

- ii) Subsidence may result in some minor depression on the surface with accumulation of water during the rain. Water will be drained out by cutting drains.
- iii) Surface drains will be made out side the active subsidence area to divert the surface water from the mining area.
- iv) Due to subsidence, surface cracks are likely to occur over mining area which would be filled-up properly and regularly by clay and stone chips and there after with a 0.3m high heap of clay over the cracks. It will help in achieving original drainage pattern over the mining area as well as avoid the chances of underground inundation and spontaneous heating.
- v) Mine management would form a team which will be responsible for filling of surface cracks formed due to subsidence. The team will also maintain record of the development and filling of surface cracks. Adequate supply of filling materials would be arranged at the site.

The subsidence management will continue for three years even after mine closure. Provision has to be made for re-vegetation of the subsidence affected area with suitable species of plants.

3.2 Water quality management : --

- a) **Drainage pattern of the area (pre and post closure) as approved in the EMP. In case of projects having no approved EMP, the existing drainage pattern may be described.**

Bhagaiya and Nargara nallas controls the drainage system of the area. The main stream of Bhagaiya nalla passes through the adjoining Dhanpuri OCM in the east. However one tributary stream of Bhagaiya nalla also passes through south – east corner of Bangwar mine. Nargara nalla passes more or less along the notified boundary in the west. The general slope of the ground is towards Bhagaiya nalla.

- b) **Water quality status of surface and ground water**

CMPDI on behalf of SECL carries out water quality monitoring at different locations in the block. The summarised water quality data generated for the period Apr.-June for three years i.e.2008-2010 is given below in table 3.1 & 3.2. The water quality data of different locations are found to be within the permissible limit of CPCB.

Table 3.1

Surface Water at a Glance

Period: April to June

Year- 2008 to 2010

Sl. No	Parameters	(Results expressed in mg/l except pH)			
		Mine Discharge water	Ghoghra Nala (Up-stream)	Ghoghra Nala (Down-stream)	GSR 742(E) Norms
1	pH	7.58 - 7.72	7.21 - 7.25	7.36 - 7.46	5.5 - 9.0
2	Total Suspended solids (in mg/l)	59 - 71	24 - 31	40 - 49	100
3	COD (in mg/l)	95 - 120	30 - 45	65 - 85	250
4	Oil & Grease (in mg/l)	< 1.0	< 1.0	< 1.0	10.0

Table 3.2

Ground Water Quality at a Glance

Period: April to June

Year- 2008 to 2010

Sl. No.	Parameters	(Results expressed in mg/l except pH)	
		Colony Drinking water, Bangwar	Desirable Limits As per IS: 10 500
1	pH	7.89 - 8.17	6.5-8.5
2	Total dissolved Solids	426 - 442	500
3	Chloride as Cl	36 - 42	250
4	Flouride as F	0.46 - 0.54	1.0
5	Sulphates as SO ₄	66 - 71	250
6	Nitrate	6.14 - 7.64	45
7	Iron as Fe	BDL*	0.3
8	Zinc as Zn	0.05 - 0.07	5.0

* BDL- below detection level.

Regular monitoring is being done in the above monitoring stations and will continue up to 3 years after closure of the mine.

c) **Measures for control of pollution (details for pollution control arrangement)**

Management of surface water drainage:-

Garland drains are made around the periphery of the subsided areas. These drains are connected to the local Bhagaiya nalla which is not likely to be disturbed by mining operation. In the workings, dewatering pumps are deployed which delivers water into settling ponds/sumps Thereafter the accumulated water is discharged into these garland drains.

Mine Water Discharge

The collected water in the mine sump (capacity: 0.20 lakh KL) is pumped to the settling tanks where suspended solids get settled. The clear water

after sedimentation are reused for water sprinkling, plantation, agriculture purpose, ground water recharge & for use by the local villagers etc.

Domestic Effluent Treatment: -

Septic tanks & soak pits have provided.

Water Conservation: -

Storage of conserved water in mine pits will be given due emphasis to provide water round the year and quality of water will be maintained before and after storage.

d) Water balance of the area (from EMP)

The net annual groundwater recharge and draft for the study area were estimated as 64.22 M.Cum and 21.08 M.Cum respectively. Thus, the balance available annual ground water recharge in the study area was assessed as 43.14 M.Cum. The detailed groundwater balance with recharge and discharge estimates are shown in the following pie diagram.

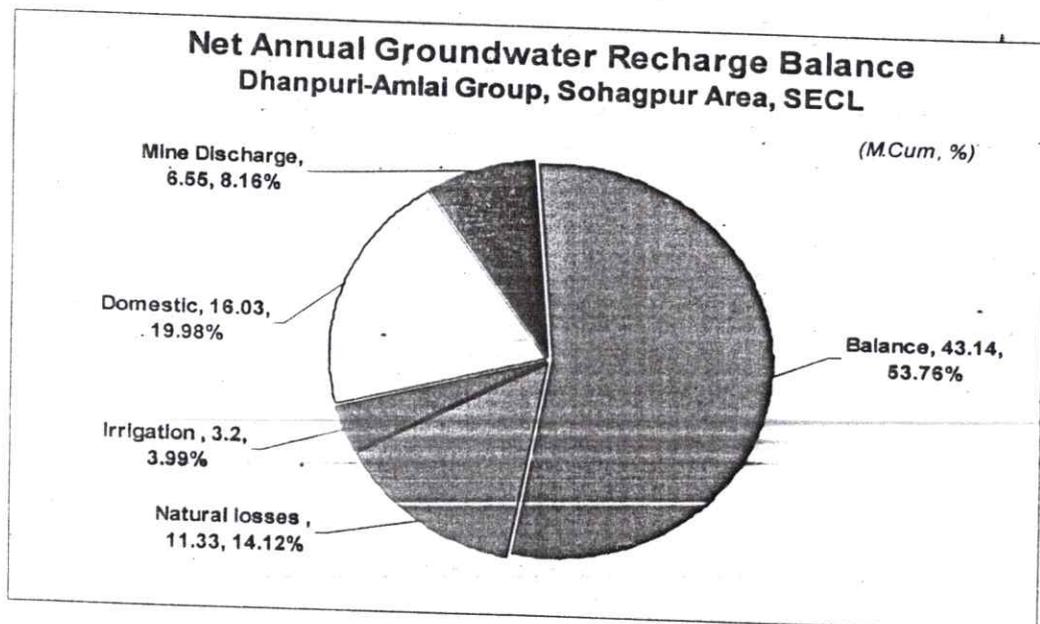


Figure - 1

e) Acid mine drainage source (if any), the existing practice of control and future plan.

The existing mine water quality of the mine itself and also of the nearby mines are not acidic and it is expected the acid mine drainage problem will not arise in this project. If however acid mine drainage problem arises suitable measures will be taken as per standard prevailing practice.

- f) **Underground water/ quarry water management after closure (Specify its usage like domestic water supply, irrigation, pisciculture or stabilizing the ground water regime).**

Already discussed in para 3.2 c above.

- g) **Water quality monitoring for three years after closure (specify the monitoring sampling station and frequency). The sampling stations shall be one no. mine water with quarterly frequency and two numbers ground water samples in core and buffer zone with quarterly frequency.**

At present, water quality monitoring is being done on four locations. These locations are selected in the core and buffer zone of the project covering mine effluent, surface water, and ground water of the area. The details of locations are given below in table – 3.3a.

Table – 3.3a

Sl. No.	Details of Location
1	Mine Discharge water, Core zone
2	Ghoghra Nala, (Up-stream) Buffer zone
3	Ghoghra Nala (Down-stream), Buffer Zone,
4	Bangwar Colony Drinking water , Core zone

Three sampling points will be utilized for water quality monitoring for three years after closure of the mine.

Frequency will be as per stipulation in para 3.2(f) above.

3.3 Air quality management :-

- a) **Air quality (Monitored data) Monitoring for next three years will be done. 3 samples at quarterly frequency for 3 years. One sample will be at core zone and one sample each in upwind and downwind directions of the project.**

At present, to assess the ambient air quality, three monitoring stations were fixed on the basis of physiography of the area, meteorological parameters like predominant wind direction, wind speed etc. The details of air quality monitoring locations are given below in table - 3.3b.

Table – 3.3b

Sl. No.	Name of Location	Direction w.r.t. centre of core zone	Aerial dist. (Km) w.r.t. the periphery of core zone
1	Mine site Office	Core zone	-
2	Bangwar colony	South	1.0
3	Near loading point	west	1.0

On the above, three sampling points will be utilized for air quality monitoring for three years after closure of the mine:

Frequency will be as per stipulation in para 3.3(a) above.

- b) Describe the air quality scenario of the core and buffer zone area (monitoring data in tabular form for SPM, RPM, SO₂ and NO_x shall be enclosed covering three seasons excluding monsoon).

CMPDI on behalf of SECL carries out air quality monitoring at different locations in the block. The summarised air quality monitoring data for SPM, RPM, SO₂, & NO₂ covering three non-monsoon seasons have been generated and shown below in tables -3.4a, 3.4b, & 3.4c.

Table – 3.4a AIR QUALITY DATA (Values In µg / cum)
Period: Jan to Mar Year- 2010

SL. NO.	STATIONS	SPM		RPM		SO ₂		NO _x	
		Min	Max	Min	Max	Min	Max	Min	Max
1	Mine Office	241	244	122	126	20	22	25	27
2	Bangwar Colony	119	123	62	65	14	16	19	23
3	Near Loading Point	284	289	144	148	24	26	29	32

Table – 3.4b AIR QUALITY DATA (Values In µg / cum)
Period: April to June Year- 2010

SL. NO.	STATIONS	SPM		RPM		SO ₂		NO _x	
		Min	Max	Min	Max	Min	Max	Min	Max
1	Mine Office	245	255	124	130	23	24	26	31
2	Bangwar Colony	122	133	64	69	16	19	21	25
3	Near Loading Point	293	310	148	156	26	29	31	35

Table – 3.4c AIR QUALITY DATA (Values In µg / cum)
Period: Oct to Dec. Year- 2010

SL. NO.	STATIONS	SPM		RPM		SO ₂		NO _x	
		Min	Max	Min	Max	Min	Max	Min	Max
1	Mine Office	255	260	130	135	25	27	29	31
2	Bangwar Colony	141	144	79	82	22	23	26	27
3	Near Loading Point	304	309	156	160	26	28	30	32

Regular monitoring is being done on the above monitoring stations and will continue up to 3 years after closure of the mine.

- c) Proposed Air Quality Management (if needed)

Within the mining area and at coal handling plants and railway siding site following air pollution control measures are being practiced and also would continue for three years after mine closure.

1. Water spraying by water sprinkler will continue for regular dust suppression measure to the approach roads within the mining area. (Capacity – 21000Lit/day).
2. Fixed Water sprinkling arrangement at the transfer points is existing.
3. 26899 nos, of plants have been planted along the coal transportation road and other road to minimise transport generated pollutants.
4. Coal transportation to Railway siding, from the mine is being done in covered trucks.
5. Regular monitoring of ambient air quality of project & its study area is being done and will continue even after mine closure for 3 years.

3.4 Waste disposal :--

- a) External OB dump & internal backfilling details (specify the reclaimed backfilled area, area of voids for water reservoir and also the OB dump area height and volume) prior to closure of mine or during progressive mine closure (as the case be).

Being an underground mine, the solid wastes, in the form of mixture of clay & rock mass are generated initially from incline drivage. These solid wastes have been utilised for Haulage ramp, levelling and construction purposes during operation of the mine.

- b) Stabilization of external O.B. dumps and backfilled area (Technical Reclamation) - Not applicable
- c) Top soil / soil amendment application - Not applicable
- d) Plantation on external & backfilled area, avenue and block plantation with type of plantation i.e. local/native species. Name the local species for plantation.

It is an underground mine and the details of plantations are stated below.

Green Belt Development:

The mine is existing one and about 26899 saplings have already planted in and around the mine area. However, green belt would be strengthened by additional plantation and would be carried out at the following locations.

1. Around the mine and infrastructures.
2. Along approach roads.
3. In and around the colony.
4. Subsidence cracks above depillaring panels.

- e) Avenue and block plantation with type of plantation i.e. local/native species. Name the local species for plantation.

Green belt around mine: -

In the directions where natural forest does not exist, there is need for creating green belt of adequate width as an effective dust and sight curtain in the periphery of mining area. The trees planted in the green belt area shall act as buffers and shock absorber against dusts, noise and stone flying. The trees in the green belt will be tall, wind firm, broad leaved and evergreen.

Coal Transportation Roads: -

A green belt of adequate width on either side of the coal transportation road is developed & existing vegetation are protected.

All other roads: -

Along the roads other than the haul roads also, dust resistant plants will be planted.

Infrastructural Facilities (Nursery):-

A nursery is a prerequisite for supply of seedlings of suitable species of right size to the extent required. The state Van Vikas Nigam may be contacted for supply of saplings and also for help to the related activities. The following species may be taken into consideration for plantation.

Species for plantation.-

- **Fruit bearing trees**
 - Jamun, Mango, Imli, Sitaphal, Bel, Ganga Imli, etc.
- **Medicinal trees**
 - Neem, Karanj, Harra, Behara, Aonla, Arjun, Shikakai, Mahua, Kusum
- **Timber value trees**
 - Teak, Shivan / Ghamar, Sissoo, Sisham, Safed Sirus, Bamboo, Peltaforum, Babool,
- **Ornamental trees**
 - Gulmohur, Kachnar, Amaltas, Saptaparni, Grevelia, Peepal, Palm tree

- f) Disposal of Coal beneficiation process reject. - Not applicable

3.5 Details of surface structures proposed for dismantling (brief description)

a) Industrial / mine structures

The CHP, Workshop, MMV, Sub-station, Weigh bridge will be dismantled unless otherwise gainfully utilized by company, State Govt./Local Body.

b) Residential Buildings

497 No. of different types will be handed over to closest project.

c) Service buildings

Manager's Office, SAM Office, CDS room, Lamp room, OH tanks will be handed over to closest project or be dismantled.

d) Telephone Cables

2 Km long telephone cables will be removed for re-use in other projects of the area, as far as practicable.

e) Sub-stations

Two sub-stations will be dismantled and equipment will be gainfully utilized in other projects.

f) Transformers

10Nos. of transformers will be dismantled and equipment will be gainfully utilized in other projects.

g) Community Services

Community Hall & Dispensary will be handed over to the local authorities.

h) Water line - Will be handed over to the local authorities.

i) Water Treatment Plants - Not applicable.

j) Rly. Siding - There is no Rly. siding in the mine area.

k) ETP/STP - Not applicable.

l) Power line - Will be dismantled unless gainfully utilized.

3.6 Disposal of Plants & Machineries

a) Disposal or reuse of existing HEMM, CHP, workshop and railway siding for OC. -Not applicable

b) Disposal or reuse of haulage system, ventilation, CHP, workshop, and railway siding for UG. - After dismantling, will be reused in other mines.

c) Disposal or reuse of transmission and sub-station.

- After dismantling, will be reused in other mines.

3.7 Safety and security arrangement

- a) **Details of fencing around abandoned quarry indicating the length of the fencing. - Not applicable**

- b) **Mine entry sealing arrangements and subsidence management for UG mines. Sealing details and dimensions shall also be provided. The thickness of mine sealing will be 100 cm RCC (M20) with nominal reinforcement. For incline entry, the mine entry path of 5 m will be filled with debris and clay before sealing the mine.**
 - The inclines will be sealed off as per guide line.

- c) **Providing One Time Lighting Arrangement.**
 - Will be provided.

- d) **Slope stability arrangement for high wall and back filled dumps.**
 - Not applicable.

NOTE: However, possibility shall be explored for handing over the residential & non-residential buildings and other infrastructures including the reclaimed land to state govt. for the benefit of local villagers and strengthening the area infrastructures. The end use of these facilities shall be decided in consultation with the State Govt., local govt. and Village Panchayat.

=====



COLLIERY MANAGER
Bangwar, U/G Mine
SECL

CHAPTER-IV

4.0 Economic Repercussions of closure of mine

4.1 Manpower of the Project--1100 nos.

4.2 Assessment of Income Scenario of local people :

Table-4.1

Sl. No.	Particulars	Proposed Disposal Practice
a	Number of local employees redeployed in other projects of the company till their superannuation	All manpower including local employees in the role of SECL will be engaged in other projects of SECL till their superannuation.
b	Approximate no. of people engaged in indirect employment / ancillary activities.	This number would vary. It would be about 3 to 4 times of departmental employees. They would find no financial loss due to the mine closure as their activities will be shifted in the new or expansion mines located in the same or other coalfield area.
c	Resettlement / Redeployment of a & b.	(i) Decided by the company. (ii) Will be decided in consultation with local authority if required.
d	If no redeployment is possible then sustenance plan. a) Compensation for losing employment or income. ii) Vocational training for continuance / sustenance of income level	Affected persons would be given vocational and skill development training for continuance / sustenance of income level.
e	Views of society and expectation on closure of mine.	Society's anxiety is limited to assurance about continuation of employment opportunities and availability of civic amenities presently provided by mine management. The employment opportunities will remain available, albeit in other nearby projects. Civic amenities will also be available as the infrastructure for same will be handed over to State Government for future use of society.

NOTE: It is proposed that reclaimed and afforested land will be handed over to State Forest Dept for the benefit of local ecosystem. The forest wealth can also be utilized by local people or tribal in the form of fruits and fodders. The water reservoir in the mine voids will be utilized for pisciculture, irrigation, domestic drinking water or stabilizing the ground water regime. Landscaping during closure of mine will make the spot for tourist attraction.

=====



CHAPTER – V

Time Schedule

The closure of mines involves environmental, technical, social aspects and financial assurance for implementing the post closure activities as per guidelines of Ministry of Coal.

The post closure implementing activities will run for **three years**. The following activities will be implemented as per bar chart in figure –2(a).

Figure - 2(a)

S.N	Activities	Time Frame	Half Yearly					
			1	2	3	4	5	6
1.	Preparation of Survey & Disposal Report	1 month	■					
3.	Disposal of P&M including CHP, W/S, Siding, etc.	2 and half years	■	■	■	■	■	
5.	Dismantling of Industrial structure	2 years	■	■	■	■		
8.	Clearing of Coal Stock and Infrastructural Area.	2 years	■	■	■	■		
9.	Disposal / Dismantling of Residential colony	2 & 1/2 years	■	■	■	■	■	
11.	Plantation over cleaned land of Infrastructure.	from 2 nd year			■	■	■	■
12.	Sealing of mine entries for UG mine	2 years			■	■	■	■
13.	Environmental Monitoring	3 years	■	■	■	■	■	
14.	Subsidence Management for U/G	3 years	■	■	■	■	■	
15.	Post closure subsidence monitoring for UG	3 years	■	■	■	■	■	
16.	Any project specific activities							

The manpower for implementing the above activities with time bound manner will be provided in the subsequent chapter with cost details.

NOTE: The subsidence management of UG mines will be taken up whenever the cracks develop or the ground area subsides.

Progressive closure activities

The time scheduling is being provided on the basis of time interval of five year as required in the MoC guidelines. This period of 5 years is considered as one phase of five years and reclamation of one phase must be taken-up before commencement of mining activity in the subsequent phase. The action plan for progressive closure activities has been provided in Figure 2(b).



Figure 2(b)

S.No	Activities in Reclamation Phase	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th
For Bangwar UGP								
1	Handing of waste generated	█						
2	Fencing of area	█						
3	Plantation around the mine		█					
4	Provision of garland drains							
5	Provision of settling tank/ Mine water treatment facility	█						
6	Subsidence monitoring							
	Subsidence management							
7	Fencing of subsided area							
	Filling of cracks							
	Grading and dozing							
8	Site preparation for plantation							
9	Plantation in subsided area							

NOTE: The above table indicates the progressive closure activities for an Underground mine having 35 years of life. The reclamation activities for the mine concerned will be followed as per the given schedule for the balance life of the mine. The balance life of the mine has been indicated in the 1st row of the above figure for reference.

=====

[Signature]
CELLERY MANAGER
 Bangwar, U/G Mine
 SECL

CHAPTER-VI

MINE CLOSURE COST

6.1 The mine closure cost will cover the following activities for which a corpus escrow account @ Rs. 1.0 lakh per Ha for UG mine of the project area shall be opened with the coal controller organization. In case of mines having acid mine drainage, post closure acid mine drainage management cost shall also be included in the total closure cost.

6.2 Mine Closure Cost

As per the guidelines of the MoC, the cost of the mine closure is to be computed based on the basis of the project area involved in the project.

In Bangwar UG, the project area involved is **514.481 Ha.** for mining, road, infrastructure, colony etc. So, the closure cost is to be computed considering a total project area of **514.481 Ha.** Considering the wholesale price index as 136.30 as on March 2010, the updated cost of mine closure is estimated to be Rs. 1.052 lakhs per hectare (upto 3 decimal places), considering the admissible escalation over Rs. 1.00 lakh per Ha. as on August 2009 when wholesale price index was 129.60.

Total Final mine closure cost (@ Rs. 1.052 Lakhs /Ha.):**Rs.541.23lakhs** (Upto two decimal places)

6.2.1 The detail of escrow account

The current value of corpus is **Rs. 541.23Lakhs** (as on March - 2010). This corpus is to be divided by life of mine. Since, this is an existing mine and the balance life is 35 years, the annual corpus comes to **Rs. 15.46 Lakhs.** by dividing 35 years. This amount is to be deposited in escrow account every year with 5% escalation.

Fund to be deposited in escrow account: Year wise amount to be deposited has been given below in table 6.1.


COLLIERY MANAGER
Bangwar, U/G Mine
SECL

Table - 6.1

Year	Amount as on Aug 2009 (Rs. Lakh)	Total Escalation (Rs. Lakh)	Amount (Rs. Lakh)
1	14.70	- 0.76	15.46
2	14.70	1.53	16.23
3	14.70	2.35	17.04
4	14.70	3.20	17.90
5	14.70	4.09	18.79
6	14.70	5.03	19.73
7	14.70	6.02	20.72
8	14.70	7.05	21.75
9	14.70	8.14	22.84
10	14.70	9.28	23.98
11	14.70	10.48	25.18
12	14.70	11.74	26.44
13	14.70	13.06	27.76
14	14.70	14.45	29.15
15	14.70	15.91	30.61
16	14.70	17.44	32.14
17	14.70	19.05	33.75
18	14.70	20.74	35.43
19	14.70	22.51	37.21
20	14.70	24.37	39.07
21	14.70	26.32	41.02
22	14.70	28.37	43.07
23	14.70	30.53	45.22
24	14.70	32.79	47.49
25	14.70	35.16	49.86
26	14.70	37.65	52.35
27	14.70	40.27	54.97
28	14.70	43.02	57.72
29	14.70	45.91	60.61
30	14.70	48.94	63.64
31	14.70	52.12	66.82
32	14.70	55.46	70.16
33	14.70	58.97	73.67
34	14.70	62.65	77.35
35	14.70	66.52	81.22
Total	514.48	881.87	1396.35



COLLIERY MANAGER
Bangwar, U/G Mine
SECL

Fund reimbursement schedule:

Table – 6.2

Year	Fund Deposited in Escrow Fund	Fund to be Reimbursed (Maximum)	(+) accrued interest as applicable
1	15.46	Nil	
2	16.23	Nil	
3	17.04	Nil	
4	17.90	Nil	
5	18.79	Nil	
Phase-1 Total	85.43	68.34	
6	19.73	Nil	
7	20.72	Nil	
8	21.75	Nil	
9	22.84	Nil	
10	23.98	Nil	
Phase-2 Total	109.03	87.22	
11	25.18	Nil	
12	26.44	Nil	
13	27.76	Nil	
14	29.15	Nil	
15	30.61	Nil	
Phase-3 Total	139.15	111.32	
16	32.14	Nil	
17	33.75	Nil	
18	35.43	Nil	
19	37.21	Nil	
20	39.07	Nil	
Phase-4 Total	177.60	142.08	
21	41.02	Nil	
22	43.07	Nil	
23	45.22	Nil	
24	47.49	Nil	
25	49.86	Nil	
Phase-5 Total	226.66	181.33	
26	52.35	Nil	
27	54.97	Nil	
28	57.72	Nil	
29	60.61	Nil	
30	63.64	Nil	
Phase-6 Total	289.28	231.43	
31	66.82	Nil	
32	70.16	Nil	
33	73.67	Nil	
34	77.35	Nil	
35	81.22	Nil	
Final Stage- Total	369.21	295.37	
Grand Total	1396.35		

Note: The above calculation have been made in accordance with the following provision of the Mine closure guideline issued by the MoC Dt. 07/01/2013.

"Up to 80% of the total deposited amount including interest accrued (as applicable), in the Escrow account may be recovered after every five years in line with the periodic examination of closure plan. The recoverable amount should be equal to expenditure incurred on the progressive mine closure plan in the past five years or 80% whichever is less. The balance amount at the end of final mine closure shall be recovered by the mine owner/lease holder on compliance of all provisions of closure plan duly signed by lessee to the effect that said closure of mine complied all statutory rules, regulations, orders made by the Central or State Government, statutory organizations court etc. and duly certified by the coal controller."

6.2.2 Tentative Final Mine Closure Activities & Cost Break-up:

The break-up of some major mine closure activities alongwith their tentative estimation of cost in terms of percentages of the total mine closure cost has been indicated in Table-6.3 below. The detailed activity schedule for the 'Final Mine Closure Plan' would be prepared five years before the intended final closure of the mine along with the detailed mine closure cost break-up.

Table-6.3 TENTATIVE MINE CLOSURE ACTIVITIES & COST BREAK-UP

Type of mine : Underground
Production : 0.65 MTY

Size of the mine: Project area 514.481Ha.
Depth of the mine : 110 m

Type of mine entry sealing: Inclines will be sealed off by constructing 2 nos. of explosion proof isolation stoppings at 5.0m apart.

Table 6.3

Sl. No	Activity	Mine closure cost (% weightage)	Remarks
A	Dismantling of Structures		To be included in final Mine closure plan.
	Service Buildings	3.5	
	Residential Buildings	10.58	
	Industrial structures like CHP, Workshop, field sub-station, cap lamp room, haulage, fan installation etc.	6.33	
B	Permanent sealing mine entries (Incline mouth/Air shaft etc.)		To be included in final Mine closure plan.
	Sealing Incline mouths/Air shaft etc.)	5.32	
C	Subsidence Management	4.75	Equal weightage throughout the life of the mine.
D	Landscaping		To be included in final Mine closure plan.
	Landscaping of the cleared land for improving its aesthetic	8.80	
E	Plantation		Equal weightage throughout the life of the mine.
	Plantation over area obtained after dismantling and other barren spaces	13.0	
F	Post closure Env. monitoring/testing of parameters for three years		For three years after mine closure.
	Air Quality	6.83	

Sl. No	Activity	Mine closure cost (% weightage)	Remarks
	Water Quality	6.34	
G	Entrepreneurship Development (Vocational/skill development training for sustainable income of affected people)	7.65	Equal weightage throughout the life of the mine.
H	Miscellaneous and other mitigative measures	14.60	
I	Manpower cost for supervision	12.30	
	TOTAL (%)	100.00	

NOTE: The above cost expenditure will be met from the corpus escrow account deposited by the mine operator. In case of mines having acid mine drainage, post closure acid mine drainage management cost shall also be included in the total closure cost.

However, the additional amount beyond the escrow account will be provided by the mine operator after estimating the final mine closure cost five years prior to mine closure (as per the mine closure guideline).

=====



COLLIERY MANAGER
 Bangwar, U/G Mine
 SECL

धनपुरी खुली खदान - 403.118 Ha.

कं.	शर्त	पालन प्रतिवेदन
1	Legal status of the diverted forest land shall remain unchanged	मान्य है।
2	Compensatory plantation to be raised over equivalent non-forest land at the cost of the project. The non-forest land identified for this purpose should be handed over to the Forest Department and notified as protected forests before the release of forest lands being diverted by these orders.	भारत सरकार के उपक्रमों के द्वारा वैकल्पिक वृक्षारोपण की राशि का भुगतान वनविभाग को किया जा चुका है।
3	Mined over are to be reclaimed/ restored after mining/ quarrying is over.	कोयला उत्खनन के पश्चात् उत्खनित क्षेत्र को समतल करके एस.ई.सी.एल. के व्यय से वन विकास द्वारा वृक्षारोपण कराया जाता है।
4	In order that the construction labour and staff while working on the project area for meeting their fuelwood needs, the user agency will establish fuelwood or its cost deducted from their salary and wages.	एस.ई.सी.एल. के द्वारा कार्यरत श्रमिकों/ कर्मचारियों/ अधिकारियों को गैस सिलेण्डर की राशि का भुगतान किया जाता है।
5	Arrangements to be made by the project authorities for free supply of fuelwood or other sources of energy to the staff and labourers engaged in the project free of cost.	एस.ई.सी.एल. के द्वारा कार्यरत श्रमिकों/ कर्मचारियों/ अधिकारियों को गैस सिलेण्डर की राशि का भुगतान किया जाता है।
6	No explosive should be allowed to be stored in the forest area.	वन क्षेत्र में बारुद का भण्डार नहीं है।
7	The conditions/ safeguards proposed by the, while clearing the project, to be followed rightly.	मान्य है।


उपक्षेत्रीय प्रबंधक

धनपुरी खुली खदान

एस.ई.सी.एल. सोहागपुर क्षेत्र


22/10