



# वेस्टर्न कोलफील्ड्स लिमिटेड

## Western Coalfields Limited

(मिनीरत्न कंपनी) (A Miniratna Company)  
(कोल इंडिया लि. की अनुषंगी कंपनी)  
(A Subsidiary of Coal India Limited)

पर्यावरण विभाग

आईएसओ 9001:2015 प्रमाणित

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Environment Department

ISO 9001:2015 Certified

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संदर्भ संख्या/वेकोलि/ मुख्यालय/ पर्यावरण/7-F & 16-C/ 938

दिनांक: 25/06/2024

सेवा में,

सदस्य सचिव (कोल माइनिंग डिविजन),  
तृतीया तल, जल विंग,  
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय,  
इन्दिरा पर्यावरण भवन, जोरबाग रोड,  
नई दिल्ली - 110 003.

**विषय:-** Submission of ADS Reply – Tawa II Underground Expn. Mine for increase in production capacity from 0.60 MTPA to 0.86 MTPA and increase in land area from 520.0 Ha. to 523.0 Ha., located in Hirapalla Village, Ghoradongri Tehsil, Betul Dist., Madhya Pradesh- EC reg. (Proposal no. IA/MP/CMIN/417657/2023).

**संदर्भ:-** Minutes of 6<sup>th</sup> EAC meeting held on 17<sup>th</sup> -18<sup>th</sup> January, 2024.

Sir,

This has reference to the above mentioned subject matter regarding submission of reply against the ADS raised in respect of Tawa II Underground Expn. Mine for increase in production capacity from 0.60 MTPA to 0.86 MTPA and increase in land area from 520.0 Ha. to 523.0 Ha., located in Hirapalla Village, Ghoradongri Tehsil, Betul Dist., Madhya Pradesh.

The aforesaid proposal was considered in the 6<sup>th</sup> EAC meeting held on 18-01-2024 for grant of EC. However, EAC directed to submit additional information for further consideration.

As directed, the point wise compliance against the additional information sought is enclosed as Annexure along with this letter.

In view of the above, it is most earnestly solicited that, our submission of ADS reply may kindly be considered for grant of Environmental Clearance in respect of Tawa II Underground Expansion Mine.

Thanking you,

संलग्न : यथोपरि

भवदीय,

महाप्रबंधक / विभागाध्यक्ष (पर्यावरण)  
25/6/24

# Reply of Addition Details Sought (ADS)

for

## TAWA-II UG EXPANSION MINE

(Pathakhera Area, WCL)

For increase in production capacity from 0.60 MTPA to 0.86 MTPA

And increase in ML area from 520.0 ha to 523.75 ha

Located in Village Hirapalla, Tehsil Ghoradongri, Dist Betul, MP

Prepared in compliance of ADS raised by EAC, Coal Mining, MoEF&CC in its  
6<sup>th</sup> meeting held on 17<sup>th</sup> - 18<sup>th</sup> January, 2024

(TOR issued by MoEF&CC vide J-11015/53/2006-IA.II(M) dated 8th January,2021)



**JUNE- 2024**

**Prepared by**

**CENTRAL MINE PLANNING AND DESIGN INSTITUTE LIMITED**

(Accredited vide letter no. NABET/EIA/22-25/SA 0223 valid till 08.04.2025)

**CMPDI/EIA/WCL/2024-25/4090420041/2.0**

## **1.0 Introduction**

Tawa-II UG is an operating coal mine of Western Coalfields Limited located in Hirapalla village of Bhogaikhapa Panchayat in Ghoradongri Tehsil of Betul District in the state of Madhya Pradesh. Present proposal is for expansion in production capacity from 0.60 MTPA to 0.86 MTPA and increase in ML area from 520.0 ha to 523.75 ha of Tawa-II UG Expansion Mine. The TOR for increase in production capacity for the proposal has been obtained from MoEF&CC vide No.J-11015/53/2006-IA.II(M) dated 8<sup>th</sup> January, 2021.

The EIA-EMP report for Tawa-II UG Mine was submitted on Parivesh portal in December, 2023. The proposal was deliberated in 6<sup>th</sup> EAC meeting held on 17<sup>th</sup> – 18<sup>th</sup> January, 2024. Minutes of the meeting of deliberation made in EAC meeting was issued on 06.02.2024. EAC made 13 point observation and proposal was deferred to submit the ADS.

## **2.0 Observation made in 6<sup>th</sup> EAC meeting**

The observations as made by EAC in its 6<sup>th</sup> meeting are quoted below:

### **Quote**

*The Committee after deliberations noted that, the instant proposal is for expansion of Environmental Clearance after obtaining ToR vide dated 08.01.2021 and Public Hearing conducted on 25.08.2022.*

*Committee during the deliberations noted that the additional area of 3.75 ha lies outside the ML area of 520.0 ha. As per the provision of EIA notification, 2006 and MMDR Act, 1957 PP is not allowed to perform any mining activity outside the ML area. Therefore, committee asked the PP to review the proposed application for expansion of ML area upto 523.75 ha.*

*Further, Committee expressed the concerns upon the intersection of ground water for static & dynamic range of ground water. Therefore, PP should conduct a scientific study for knowing the exact status upon the same. In continuation, PP should propose the efficient water recharge system within/outside the ML area.*

*Committee also reviewed the CCR vide dated 01.11.2023 and asked the PP to complete the non-complied EC conditions and action plan needs to be submitted to the Committee.*

*Committee observed that as per KML file there is a Satpura reservoir and Satpura dam just adjacent to mining lease area. The Committee is of the view that PP shall submit a study from the reputed institute that presence of the same will not affect the mine working and mine is safe for inundation point of view. Further, mine working will not cause any damage to the reservoir.*

Coal is transported through conveyor from face to surface and then by tippers from surface to Sarni Thermal Power Plant. Black topped road is provided for coal transportation road from surface to power plant.

In view of the above, the committee desires the following information from the project proponent:

- i. PP should review the instant application submitted for the addition of 3.75 ha of additional area lying outside the ML area of 520.0 ha.
- ii. PP shall submit the action plan for the non-complied EC conditions of issued EC dated 02.08.2006 and 15.01.2021.
- iii. PP shall submit the details of settling pond and sedimentation pond lying within the ML area with their storage capacity.
- iv. PP shall submit the health check-up plan for mine plan workers and project affected people living within the 5km radius of ML area.
- v. PP shall revise the budget associated with the EMP and Public Hearing.
- vi. PP shall also evaluate the impact of the mining upon the existing corridor of Tiger and their mitigation plan with the appropriate budget.
- vii. PP should conduct a scientific study for knowing the exact status of ground water including static & dynamic range of ground water.
- viii. Committee observed that as per KML file there is a Satpura reservoir and dam just adjacent to mining lease area. The Committee is of the view that PP shall submit a study from the reputed institute that presence of the same will not affect the mine working and mine is safe for inundation point of view.
- ix. PP should submit efficient water recharge system to be planned within/outside the ML area.
- x. Traffic density study and road plan for coal transportation to be submitted with proposed mitigation measures.
- xi. PP shall conduct a drone video survey for 10 minutes for clear view of the project.
- xii. Issues raised during public hearing shall be addressed with reply based on fund allocated for issue & timeline for completing the issue
- xiii. PP shall bring out the transportation route to be followed and why belt conveyor cannot be installed. Further, possibility of using EV vehicle may also be explored. The PP shall also submit a cost analysis of setting up of belt conveyor vis-a vis EV/CNG based tippers.

In view of the above, the project was **deferred** to submit the above observation

## 2.0 Point-wise compliance of the EAC's observation

The summary of point wise compliance of the observation made in 6<sup>th</sup> EAC meeting is detailed below:

**ADS – 1: PP should review the instant application submitted for the addition of 3.75 ha of additional area lying outside the ML area of 520.0 ha.**

**Compliance –** The ML area of the project is 520 ha. The additional land area of 3.75 ha is outside the mine lease. Hence as desired, the EC may be granted for the mine lease area of 520.0 ha.

The details mine lease area of Tawa II UG mine is tabulated below-

S. No.	Name of Mine	Name of Block	Notification	Total Area notified (ha)	Area utilized for Tawa II UG mine (ha)
1	Tawa II UG mine	PKD-III Block	SO no. 2617 dated 21/08/1978 under CBA, Act 1957 (Attached as Annexure-I A)	1430.009	468.341
2.		Tawa Block	SO no. 1355 dated 24/06/1998 under CBA, Act 1957 (Attached as Annexure-I B)	588.253	51.659
				Total	520.00 Ha

The plan showing the mine lease area of Tawa-II UG is shown below (also attached as Plate-I):



Figure 1 Plan Showing Mine lease area of Tawa-II UG Mine

**ADS 2 - PP shall submit the action plan for the non-complied EC conditions of issued EC dated 02.08.2006 and 15.01.2021.**

**Compliance –**

The certified compliance report for the EC dated 02.08.2006 & 15.01.2021 was obtained from IRO, MoEF&CC, Bhopal vide ref letter 3-50/2006(Env)/R-59/P-6 dated 01.11.2023. The copy of Certified compliance report is attached as Annexure-II.

Following observation were made in the CCR by IRO, MoEF&CC.

Status of EC Condition	No of conditions	
	EC Dated 02.08.2006	EC dated 15.01.2021
Complied	26	03
<i>Non Complied</i>	<i>Nil</i>	<i>Nil</i>
Partly Complied	01	00
Compliance In Progress	03	00
Compliance Not Applicable to Project Proponent	01	00
Agreed To Comply	03	00
<b>Total</b>	<b>34</b>	<b>03</b>

In the CCR, non-complied conditions were found to be nil. Out of total 37 (34 + 3) EC conditions issued in EC dated 02.08.2006 and 15.01.2021, only one condition was found to be partially complied. The specific condition (xii) of EC letter dated 02.08.2006 was noted as partly complied. The action taken report against the partially complied condition was submitted to IRO, MoEF&CC Bhopal vide letter Ref no WCL/PKD/Tawa-II/2023/3898 dated 17.11.2023. The ATR for partially complied condition is attached as Annexure-III.

Following condition was found to be partially complied:

***EC Specific condition (xii) - “Besides carrying out regular periodic health checkup of their workers, 10% of the workers identified from work force engaged in active mining operation shall be subjected to health checkup for occupational diseases and hearing impairment, if any through an agency such as NIOH, Ahmedabad within a period of 1 year and the result reported to this ministry and to DGMS”.***

**Action Plan proposed by Project Proponent**

Initial Medical Examination (IME) is carried out compulsorily for both the Departmental and contractual employees during initial deployment in the mine/project. Thereafter, Periodical Medical Examination (PME) is carried out for every employee. The frequency of PME for employee less than 50 years' age is

once in every three years and for employee above 50 Year age is once in every year. The above said IME & PME records are being maintained and submitted to DGMS on yearly basis in prescribed format. The IME & PME are being carried out in compliance of Mines Rules and DGMS statute. WCL has established Hospitals at Administrative Area level and dispensaries at Unit/Project levels for providing health care facilities to workers and to conduct periodic health check-up.

*During past 05 Years (2018-2022) PME of total 1288 No. of employees has been conducted by the Medical Services Department.*

Regarding occupational health status of the administrative Area, it may be mentioned here that, till date, no employee or person has been detected with occupational health issues viz. coal miner's pneumoconiosis during the last 5 years.

The number of employees undergone medical examination in previous year 2023 is provided below:

S. No.	Type of Employees	Examination Type	Number of employees undergone medical examination
1	Departmental Employees	IME	18
2	Departmental Employees	PME	244
3	Contractual Employees	IME	103
4	Departmental Employees	PME	48
<b>Total</b>			<b>413</b>

In 2024, the target for periodic medical examination is 223. The month-wise target showing achievement till March, 2024 is provided below:

PME 2024												
Yearly Target -	223											
Monthly Target -	19											
Details	January	February	March	April	May	June	July	August	September	October	November	December
Target	19	19	19	19	19	19	19	18	18	18	18	18
Ach.	5	21	22	0	0	0	0	0	0	0	0	0
Pr.Target	20	38	57	76	95	114	133	151	169	187	205	223
Pro.Ach.	5	26	48	48	48	48	48	48	48	48	48	48

Beside the regular occupational health status monitoring, Occupational Health study of more than 10 % of Active manpower has been carried out through an institute of repute i.e. through Government District Hospital, Betul. The above Medical Examination include Physical Examinations, Skin & Eye Examination, Ears Inspection, respiratory System Examination, Genito-Urinary system examination,

ECG, BP, R&S & Audiological Evaluation, etc. Following findings has been observed in medical examination of workers of Tawa-II UG Mine as certified by Deputy Chief Medical Office of the Pathakhera Area:

Summary/Analysis of findings of the Medical Examinations of the workers of Tawa II UG mine at Govt. District Hospital, Betul.

Out of the Medical Investigations report of the 75 mine workers of Tawa II UG mine carried out at Govt. District Hospital, Betul, there is no case detected for any occupation related disease.

The findings observed are majorly general health and vision related.



Dy. CMO/IME-PME Incharge  
Area Hospital, Pathakhera Area  
उप मुख्य चिकित्सा अधिकारी  
क्षेत्रीय चिकित्सालय  
बे.खो.सि., पाथाखेड़ा क्षेत्र

**Area Hospital established at Pathakhera Area**

At Pathakhera, well equipped 60 bedded Area Hospital is established in year 1990 and is upgraded continuously with latest facilities as per requirement on regular basis. The Area hospitals and dispensaries are managed by the qualified doctors having MBBS, specialization and super specializations in occupational health and other areas of medicine.

The details of the setup at Pathakhera Area Hospital are as follows:

- 1) State of the art facilities are provided in the hospital.
- 2) 11 nos. of doctors and 46 paramedical staff engaged in the Hospital.
- 3) Separate Deptt. is established for IME/PME related works and 3 nos. of doctors are posted along with supporting staff.
- 4) 1 no. of X-Ray machine (500mA) of Allengers brand.
- 5) 2 nos. of Biochemistry Auto analyser of Transasia brand.
- 6) 1 no. of C-Arm Image intensifier machine of Siemens brand.
- 7) 1 nos. of Anaesthesia machine of Boyle brand.
- 8) 1 nos. of Blood bank refrigerators of Remi brand.
- 9) 1 nos. of web enabled Audiometer units of Pure Tone brand
- 10) 1 nos. of web enabled Spirometer

- 11) 2 nos. of Multi-Channel type ECGmachines of Bionet brand.
- 12) 3 nos. of Ambulance
- 13) Disposal of biomedical wastethrough authorized agency.



Figure 2 Glimpses of Hospital at Pathakhera Area, WCL

**ADS – 3:** PP shall submit the details of settling pond and sedimentation pond lying within the ML area with their storage capacity.

**Compliance –** Sedimentation tanks of the following dimensions has been constructed in Tawa-II UG Expansion mine.

- 11.75 m x 4.0m x 1. 89 m = 88.83 m<sup>3</sup>
- 13.90 m x 7.3 m x 2.25 m = 228.30 m<sup>3</sup>

In the mine where strata seepage water gets accumulated in the underground sump/storage tank. The strata seepage is being continuously pumped out to the surface settling tank for the safety of the man and machinery deployed in the underground working. Pressure filter of 5000 GPH capacity is installed in the mine premise for treatment of colloidal particles. The treatment process is followed by Alum dosing. The treated water is pumped into clear water tank. After treatment, the water is for dust suppression and spraying on the UG coal face.



*Figure 3 Sedimentation tanks at Tawa-II UG mine*

*ADS – 4: PP shall submit the health check-up plan for mine plan workers and project affected people living within the 5km radius of ML area.*

*Compliance: 4* The regular health check-up for mine workers and project affected people is carried out through dedicated 60 bed hospital established by WCL. The health facility to the project affected people is extended in two ways.

- 1) Through the CSR clinic established in Area Hospital
- 2) Through medical health check-up organized regularly

There are 11 nos of doctors and 46 paramedical staff engaged in the Hospital. All the project affected people can utilize the CSR clinic for OPD consultation free of cost.

Since 2018, WCL has organized 68 health camps in this region till December, 2023. This includes cancer detection camps, general health checkup camp, blood donation camps, awareness camps, female health checkup camps, HIV and AIDS awareness camps, Hepatitis B detection camp, radiotherapy diagnostic camp, diabetes detection camp, school health camps etc. These camps are organized in the villages and as well as through area hospital. Through these medical health checkup camps, 5167 beneficiaries were benefited. These included the mine workers and project affected people.



Figure 4 Medical Health Camps for Project Affected People by WCL

Summary of health checkup camp in previous years:

S. No.	Year	Number of Beneficiary	Type of Health Checkup Camps
1	2018	749	General Health Camp in Chattarpur Village, Female Health Camp, School Health Camp, Orthopedic Diagnostic Camp, Diabetes Camp
2	2019	1523	Female Health Camp, Diabetes Detection Camp, General Health Camp, Retinopathy Detection Camp, Hypertension Detection Camp, Diabetes Detection Camp, Orthopedic Diagnostic Camp, Cancer Detection Camp, Girls School Health Camp, Dental Checkup Camp
3	2020	73	Breastfeeding Awareness Camp (Only 1 health check camp could be organized due to Covid Restriction). Medical facilities of the hospital were utilized in management of Covid cases.
4	2021	993	Retinopathy Diagnostic Camp, General Health Checkup Camp in Shobhapur Village, Blood Donation Camp, HIV & AIDS Awareness Camp for Truck Drivers, Blood Donation Camp, Eye Camp, Macchidhana Village,

			Breast Feeding Week Female Health & Antenatal Checkup Camp, Hepatitis B Detection Camp, HIV& Hepatitis B Detection Camp at Rajendra Nagar, Post Covid Health Checkup Camp, BMD Camp for Female Employees And General Public
5	2022	929	Cardiac Disease Detection Camp, Female Health Checkup Camp, Tuberculosis Awareness Camp, Retinopathy Detection Camp, Post Covid Checkup, Gynaecic Checkup and Cardiac Checkup Camp, ANC Camp with BP Hemoglobin And Blood Sugar Checkup, School Health Camp Hemoglobin, Blood Group and Eye Checkup in Govt Middle School Shastrinagar, Breast Feeding Awareness Camp and ANC Camp, Blood Donation Camp, Heath checkup Camp at village Shakti Garh, Cancer Detection
6	2023	900	Cancer Detection Camp, General Health Camp at Shobhapur Village, Arogya Janch ShivrWith BMD Camp, Medical Camp Related to Osteoporosis, Cancer Detection
<b>Total</b>		<b>5167</b>	

**Health Check Up Plan for Mine workers:**

As mentioned in the reply of ADS No 2, Initial Medical Examination (IME) is carried out compulsorily for both the Departmental and contractual employees during initial deployment in the mine/project. Thereafter, Periodical Medical Examination (PME) is carried out for every employee. The frequency of PME for employee less than 50 years age is carried out once in every three years and for employee above 50 Year age is subjected to examination once in every year. 413 workers have gone through the medical examination in year 2023. For the year, 2024 the target for periodical health examination is 223. Beside all the workers who will be deployed in the mine, will undergo initial medical health examination. 11 nos of doctors and 46 paramedical staff are engaged in the Hospital. The responsibility of medical examination is provided to the IME/PME in charge posted in the Area hospital.

**Health Checkup Plan for Project Affected people within 5 Kms radius of ML Area**

There are total 06 Villages and 1 census town located in the 5 km radius of the ML area of Tawa-II UG Mine. WCL has been organizing Medical Camps regularly in these Villages for the benefit of project affected people. Salient feature of health check plan are as follows–

*Table 1 Health Checkup Plan for Project Affected People*

Number of Project Affected habitations falling within the radius of 5 km from Tawa II UG Expn. Mine	07 Villages
Name of Villages falling within the radius of 5 km from Tawa II UG Expn. Mine	Gandhigram, Shaktigarh, Aamdhana , Hirapalla - Bhogaikhapa, Rajegaonkhapa and Shobhapur
Frequency of health check camps covering each Village	Once in a year covering all villages
Activities to be covered in health camps	<ul style="list-style-type: none"> <li>i. Awareness programs regarding lifestyle diseases and their detection</li> <li>ii. screening for Hypertension and Diabetes by measuring Blood Pressure and Blood sugar levels</li> <li>iii. Distribution of Medicine</li> <li>iv. Awareness program about Tuberculosis with sputum examination of symptomatic persons.</li> <li>v. Conducting the Anaemia detection camps particularly in women and school going kids with distribution of deworming medicines and iron folic acid tablets.</li> <li>vi. Conducting awareness program against alcohol addiction and tobacco consumption at these villages.</li> </ul>
CSR Clinic	In addition to the Medical Camps organized by Medical Department, Pathakhera Area, CSR clinic has been established at Pathakhera Area Hospital since 2019 and will continue to operate at Area Hospital, Pathakhera Area for the benefit of local people.



Figure 5 OSM map showing the ML area and its 5 km radius

**ADS 5:** PP shall revise the budget associated with the EMP and Public Hearing.

Compliance:

The revised EMP cost is provided below:

	<b>Particular</b>	<b>Budget</b>	<b>Timeline</b>
1.	1 nos of Mist Fog Canon	10 Lakhs	March, 2025
2.	Repair and maintenance of existing fixed sprinklers	5 Lakhs	March, 2025
3.	Water Pollution Mitigation Measure (construction of check dams)	19.30 Lakhs	Already Completed
4.	Repair and maintenance of coal transportation Route (6 km)	80.00 Lakhs	Already Completed
5.	Piezometer installation	3.90 Lakhs	Already Completed
6.	Digital Flow meter	0.70 Lakhs	Already Completed
7.	Enhanced Air Pollution mitigation measures at CHP	5 Lakhs	March, 2025
8.	18 nos of fixed sprinklers	9.47 Lakhs	Already Completed
9.	Black topped road	23.39 Lakhs	Already Completed
10.	Use of high axle trucks of 40-50 tonnes capacity for	By thermal power plant	Already implemented

	transportation of coal		
11.	Rain water harvesting system	7.50 Lakhs	Already Completed
12.	Sewage Treatment Plant for residential Colony	200 Lakhs	March 2026
13.	Implementation of Rain Water Harvesting Measures in nearby villages	30 Lakhs	March 2025
Total		394.26 Lakhs (Additional – 257.5 Lakhs)	

The revised cost for the actions taken on the issues raised in Public Hearing is provided below:

Sl. No	Particulars	Year-1(In Lakhs) (2023-24)	Year-2(In Lakhs) (2024-25)	Year-3(In Lakhs) (2025-26)	Year-4(In Lakhs) (2026-27)	Total (In Lakhs)
1	Infrastructure creation for Drinking water supply	6.00	3.00	3.00	3.00	15
2	Skill Development & Education	40.00	10.00	10.00	10.00	70
3	Roads	46.34	10.00	10.00	10.00	76.34
4	Rainwater Harvesting	-	10.00	10.00	10.00	30
5	Medical Camp	2.0	2.00	2.00	2.00	8
6	Art, Culture & Sports	0.50	0.50	0.50	1.00	2.5
7	Others	-	5.00	5.00	5.00	15
	Total	94.84	40.5	40.5	41	216.84

**ADS 6** :PP shall also evaluate the impact of the mining upon the existing corridor of Tiger and their mitigation plan with the appropriate budget.

**Reply** -The project is approx. 6 kms away from the Tiger Corridor. The Stage-II forestry clearance for the project has been granted vide MoEF&CC letter 8-52-2017-FC dated 2<sup>nd</sup> November 2023. During the appraisal for grant of stage-II forestry clearance, the comments from NTCA was obtained with respect to the project by FC division of MoEF&CC. It is worthwhile to note the comments from NTCA as provided in minutes of meeting of Advisory Committee meeting dated 17.07.2023 for forestry clearance. The comments are produced below:

- a) The proposal was evaluated with respect to information available on Parivesh portal and all India tiger estimation data.
- b) It has been observed that the proposed coal mining site is located at an approximate distance of 23 km from core of Satpura Tiger Reserve, 17 km from buffer of Satpura Tiger Reserve and 6 km from the least cost pathway tiger dispersal corridor in between Satpura and Melghat Tiger Reserves delineated by NTCA and Wildlife Institute of India. **The project site had no presence of tigers in its vicinity as per 2006, 2010, 2014 and 2018 cycles of all India tiger estimation.** As per 2018 cycle of all India tiger estimation, the project site has low abundance of large mammals present in its vicinity. Moreover, the part of the project site is embedded within a multiple use landscape at the edge of a forest patch likely to be diverted.
- c) However, the project site lies adjacent to Satpura reservoir and part of Tawa river comes under the project area. It is, therefore, pertinent that water discharged from the mine to the river and reservoir should be treated appropriately as per extant norms and standards of the Ministry and should be monitored periodically thereby ensuring the quality to see that the water is not polluted so as to avoid negative ecological impacts on aquatic biodiversity.
- d) FC Division of MoEFCC may like to take cognizance of these observations while making decision pertaining to the project.

As mentioned by the NTCA, no tiger presence was found in the previous all India Tiger Estimation. Thus impact of the mining upon the existing corridor is likely to be insignificant considering no presence of the tiger in the mining area. The project site has also low abundance of large mammals present in its vicinity.

Considering the proximity to the least cost pathway tiger dispersal corridor, a wildlife conservation plan has been formulated to minimize any impact. Further wildlife conservation plan with budget of 155.0 Lakhs has been prepared. The amount of 155.0 Lakhs has been deposited in compliance of the Stage-I forestry clearance issued by MoEF&CC. The wildlife conservation plan focussed on the construction of check dams in the nearby locations for wildlife conservation, maintenance of existing check dams. The copy of wildlife conservation plan is attached as Annexure – IV. Activity wise wildlife conservation plan is provided below:

*Table 2 Budget for wildlife conservation plan*

<b>S. No.</b>	<b>Proposed Conservation Activity</b>	<b>Capital Cost (Amount in Lakhs)</b>
1	Construction of new check dams (15 nos) / pond in nearby location of project Area for wildlife conservation	100.00
2	Maintenance of existing ponds check dams	20.00
3	Training of Forest Staff, Villagers and General Public For Wildlife Conservation	15.00

4	Public Awareness Programme through workshop seminars and booklet development for wildlife conservation	20.00
<b>Total</b>		<b>155.0</b>

**In compliance of the condition (viii) of Stage-I forestry clearance, the demand under wildlife conservation plan for Rs 155.0 Lakhs was raised by Forest Department. In compliance of the condition, the amount was deposited in the CAMPA fund on 27.05.2022.**

*ADS 7:PP should conduct a scientific study for knowing the exact status of ground water including static & dynamic range of ground water.*

**Reply:** A detailed scientific study has been carried out to know the exact status of ground water including static & dynamic range of ground water. Where both the Dynamic and Static Groundwater Resources have been estimated for buffer zone (10 km radius) as per GEC 2015 guidelines. The detailed study is attached as Annexure-V. The summary and the findings of the study are provided below.

In the Groundwater Resources estimation for buffer zone of Tawa-II UG Mine, the following inputs have been utilized such as: a) Aquifer Disposition of study area, b) Aquifer Characteristics, c) Historic Groundwater Levels, d) Groundwater Recharge which includes rainwater harvesting and artificial recharge in study area.

The summary of dynamic ground water resource estimation is provided below:

*Table 3 Net Annual Groundwater Availability in the study area for Dynamic Groundwater Resources*

<b>Description of items</b>		<b>M m<sup>3</sup></b>
1	Rainfall Recharge in the study area	<b>33.13</b>
	a. During Monsoon season (Rainfall Infiltration Method)	32.38
	b. During Non-monsoon season (Rainfall Infiltration Method)	0.75
	c. Annual [ (1a) + (1b) ]	33.13
2	Recharge from 'Other Sources'	<b>5.44</b>
a.	During Monsoon season	<b>1.79</b>
	Return flow from Irrigation [25 % of Irrigation Draft ]	0.15
	Return flow from Excess mine water [20% as seepage factor]	0.19

	Recharge through water bodies in the area: (8.6 km <sup>2</sup> x 0.0014 m/d x 120)	1.44
	Recharge through RTRWHS (Existing +Proposed)	0.0099
b.	During Non-monsoon season	<b>3.64</b>
	Return flow from Irrigation [25 % of Irrigation Draft ]	0.31
	Return flow from Excess mine water [20% as a seepage factor	0.38
	Recharge through water bodies in the area: (8.6 km <sup>2</sup> x 0.0014 m/d x 245)	2.95
	Recharge through RTRWHS	0.00129
	c. Annual [ (2a) + (2b) ] M m <sup>3</sup>	5.44
3	Are Environmental Flows assessed (Yes/No)	No
<b>4</b>	<b>Total Annual Groundwater Recharge [ (1c) + (2c) ]</b>	<b>38.57</b>
5	Environmental flows in (M m <sup>3</sup> )	<b>3.86</b>
	a. [ 0.05 * (4) ] if response to (3) is "NO" and rainfall recharge during monsoon season computed by 'Water table Fluctuation Method'	
	b. [ 0.10 * (4) ] if response to (3) is "NO" and rainfall recharge during monsoon season is "NOT" computed by 'Water table Fluctuation Method'	✓
6	Annual extractable ground water resource (EGR) in the study area [(4) – (5)] M m <sup>3</sup>	<b>34.71</b>
7	Annual Gross Groundwater extraction for all uses in the study area	<b>8.01</b>
8	Balance available annual extractable groundwater resource (Annual extractable ground water resource (EGR) – Gross annual groundwater extraction)	<b>26.70</b>

\*RTRWHS: Roof Top Rainwater Harvesting

### Assessment of Static Ground Water Resources or In-Storage Ground Water Resources:

The computation of the static or in-storage ground water resources may be done after delineating the aquifer thickness and specific yield of the aquifer material. The computations can be done as follows Eq: -

$$SGWR = A * (Z2 - Z1) * Sy$$

Where,

SGWR = Static or in-storage Ground Water Resources

A = Area of the Assessment Unit

Z2 = Bottom of Unconfined Aquifer

Z1 = Pre-monsoon water level

SY = Specific Yield in the In-storage Zone

### Assessment of Total Ground Water Availability in Unconfined Aquifer

The sum of Annual Exploitable Ground Water Resource and the “In-storage ground water resources” of an unconfined aquifer is the Total Ground Water Availability of that aquifer.

**Total Ground Water Availability in Unconfined Aquifer (TGWA) = EGR +SGWR**

**Balance total annual extractable groundwater resource available in Unconfined Aquifer (BTGWA) = (EGR- Gross annual groundwater extraction) +SGWR**

Assessment of In-Storage Groundwater Resources or Static Groundwater Resources has been carried out in the table below and picture representation diagram for the same has been given in the **Error! Reference source not found.** below.

Table 4: Assessment of In-Storage Groundwater Resources or Static Groundwater Resources

II. Assessment of In-Storage Ground Water Resources or Static Ground Water Resources of Unconfined Aquifer			
Assessment of Static or in-storage Ground Water Resources of Unconfined Aquifer			
Description of items			
1	Area (km <sup>2</sup> )	Sedimentary	Hard Rock
		303.54	29.53
2	Z2 - Z1	69.8	69.8
3	Specific yield	0.15	0.015
4	Static or in-storage Ground Water Resources [ (1) * (2) * (3) ] (M m <sup>3</sup> )	3178.06	30.92
5	Total (M m3)	<b>3208.98</b>	

Note: Z1 - Pre-Monsoon Water Level = 8.70 m

Z2 - Bottom of Unconfined Aquifer = 78.5 m

Table 5: Assessment of Assessment of Total Ground Water Availability in Unconfined Aquifer

Assessment of Total Ground Water Availability in Unconfined Aquifer	
1	TGWA (M m3) <b>3243.70</b>

2	Balance total annual extractable groundwater resource available in Unconfined Aquifer (M m3)	3235.69
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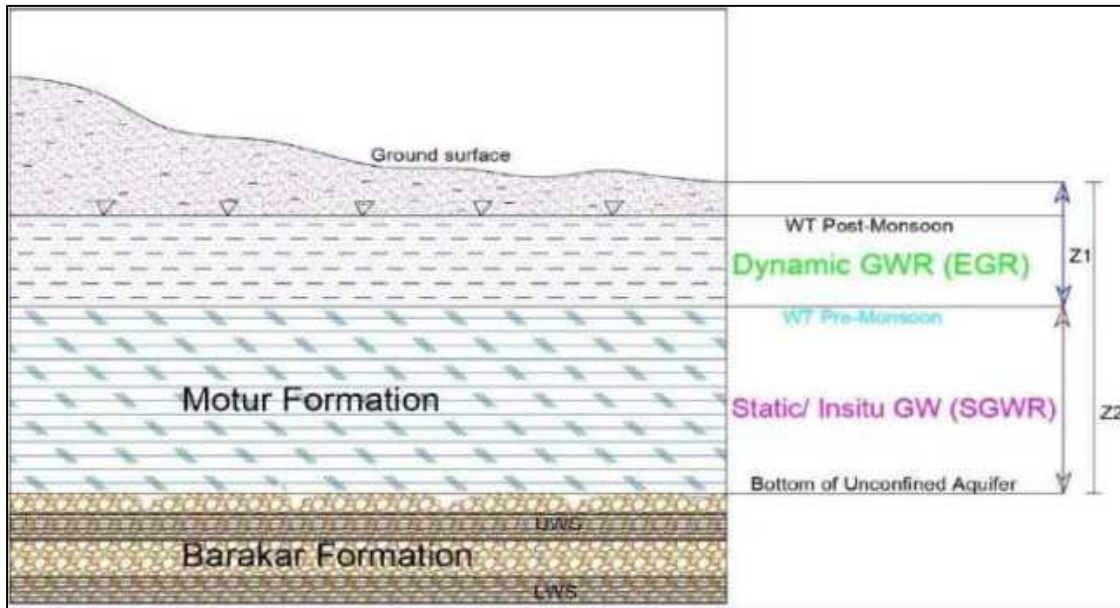


Figure 6: Static and Dynamic Groundwater Resources

After attempting the detailed Ground Water Resource Estimation both Dynamic as well as Static Ground Water Resource it is observed that: the Total Ground Water Availability in Unconfined Aquifer (TGWA) which is sum of 'Extractable Ground Water Resource' (EGR) and 'Static Ground Water Resource'(SGWR) is estimated as 3243.70 Mm<sup>3</sup>(i.e. 34.71 Mm<sup>3</sup> + 3208.98 Mm<sup>3</sup>, respectively). Out of this TGWA, 'Gross Annual Extraction' is estimated to the tune of 8.01 Mm<sup>3</sup>. Therefore, 'Balance Total Annual Extractable Groundwater Resource' or BTGWA available in Unconfined Aquifer is 3235.69 Mm<sup>3</sup> (i.e. BTGWA = (TGWA – Gross Annual Extraction)).

From, this it is inferred that, as the 'Gross Annual Extraction (8.01 Mm<sup>3</sup>)' is less than the Extractable Ground Water Resource (Dynamic Resource of 34.71 Mm<sup>3</sup>) and the Stage of Ground Water falls under 'Safe' Category so, the Static Ground Water Resource (SGWR) remains unaffected as per the estimation.

### **Result**

Dynamic Ground Water Resource - 34.71 Mm<sup>3</sup>

Static Ground Water Resource - 3208.98 Mm<sup>3</sup>

**ADS: 8** Committee observed that as per KML file there is a Satpura reservoir and dam just adjacent to mining lease area. The Committee is of the view that PP shall submit a study from the reputed institute that presence of the same will not affect the mine working and mine is safe for inundation point of view.

**Compliance:** Tawa-II UG is an operating coal mine of Western Coalfields Limited located in Hirapalla village of Bhogaikhapa Panchayat in Ghoradongri Tehsil of Betul District in the state of Madhya Pradesh. The mine has started production from FY 2006-07.

It may be also mentioned that, though the mine is adjacent to Satpura reservoir, due to geo-mining conditions, the water seepage into the mine is very minimum i.e. 490.32 m<sup>3</sup>/ day (The quantum of seepage is normal in UG mines). For the same quantity, NOC renewal application has been submitted to CGWA.

In connection with the above, the geology of the mine is briefed below:

The lease hold area of the Tawa-II U/G Mine is generally a hilly terrain. Barakar sandstones are exposed in the southern and eastern part of the block. The likely exposures of the coal seams, to the south-east, are now submerged in Satpura Reservoir.

The lithological & Hydrological formations are summarized in following table:

Age	Formation	Lithology	Hydrogeological unit		Thickness (m)
Recent	Alluvium	Sandy and clayey soil.	Shallow Aquifer	Unconfined aquifer	About 2-3
Lower Permian	Motur (up to the depth of 25 m)	Medium to coarse grained sandstone with bands of variegated clays.		Unconfined / Semi-Confined aquifer	About 70
	Motur (beyond 25-30 m)		Semi Confined Aquifer		
	Upper Barakar Formation	Medium to coarse grained sandstone, devoid of any coal seam.	Deeper Aquifer (Poor)	Semi confined / Confined Aquifer	About 100
	Upper Workable Coal Seam			Aquiclude	0.55 to 1.63
	Parting (consisting of sandstone)			Confined Aquifer	11.15-19.51

Age	Formation	Lithology	Hydrogeological unit	Thickness (m)
	Lower Workable Coal Seam		Aquiclude	1.75-3.34
	Parting (consisting of sandstone)		Confined Aquifer	50.87-56.77
	Bagdonga Coal Seam		Aquiclude	0.96-2.15
	Parting (consisting of sandstone)		Confined Aquifer	36.85-44.89
	Coal Seam (Seam IA)		Aquiclude	0.45-1.44

Hydraulic parameters of the aquifers determined by CMPDI from slug tests on dug wells and bore wells are given below:

Sr. No.	Aquifer Parameter	Unconfined aquifer	Confined aquifer
1.	Transmissivity ( m <sup>2</sup> /day)	6.20	1.2 x 10 <sup>-1</sup>
2.	Hydraulic conductivity (m/day)	1.50	2.2 x 10 <sup>-3</sup>
3.	Storage coefficient	0.03	1.0 x 10 <sup>-3</sup>

In Tawa-II UG mine, two number of coal seams are extracted. The first workable seam is Lower Workable seam (LWS) and the next workable seam is called Bagdonga Seam (BS). Three number of panels of LWS coal seam located near to the Satpura reservoir have already been extracted successfully without facing any inundation issue.

Because of the geological formation, aquifer parameters and hydraulic parameters, seepage/ingression of water from Satpura reservoir is minimal and in the history of the mine, there are no scenarios of safety issues due to inundation.

Further all the safety norms as determined by the DGMS are being complied during mining operations in Tawa-II UG Mine. There is a robust mine safety framework exists at Tawa – II UG Mine. As per the Regulation 150 (Danger from underground inundation) of Coal Mine Regulation, 2017, “**no working which has approached within a distance of 60 meters of any other working (not being a working which has been physically examined and found to be free from accumulation of water**

or other liquid matter or any material that is likely to flow when wet), whether in the same mine or in an adjoining mine, shall be extended further except with the prior permission in writing of the Chief Inspector and subject to such conditions as he may specify therein.” Accordingly, the workings / panels / districts of the Tawa – II UG mine is at least 120 m away from the Satpura reservoir, which is twice the safe distance provisioned in the section 150 of CMR, 2017.

The safe distance of 120m between Tawa reservoir and mine working is being strictly examined and implemented by mine management & regularly checked by officials of DGMS. Till date, no violation regarding Regulation 150 (Danger from underground inundation) of Coal Mine Regulation, 2017 has been received from DGMS.

**In view of the above, it is requested to exempt the above-mentioned directive for grant of EC.**

*ADS 9: PP should submit efficient water recharge system to be planned within/outside the ML area.*

**Compliance:**

There are two numbers of water recharge system already operating within the buffer zone of the project (outside of the ML Area). Recently, a water recharge system in the office building of Tawa-II UG Mine has been constructed. This is located within the ML area. It is likely to be started operation in 2024-25.

*Table 6: Computation of groundwater recharge by existing RTRWHS for Tawa-II UG project area.*

S. No.	Place/ Location	Roof Top Area (m <sup>2</sup> )	Average Rainfall (2019-23) (m)	Runoff Coefficient	Recharge, Q (m <sup>3</sup> /year)
1	Regional workshop, Pathakhera Area, WCL Latitude: 22°07' 29.78" N Longitude: 78° 6' 28.41" E	4130	1.3388	0.85	4699.85

2	Office Building, Tawa UG Mine Pathakhera, WCL	4272	1.3388	0.85	4861.45
3	Tawa II UG Mine	1470	1.3388	0.85	1672.83
<b>Total Cumulative Recharge (m<sup>3</sup>/ year)</b>					<b>11234</b>



Beside above, three locations are identified outside ML area for rain water harvesting works. Capital outlay of Rs 45.0 Lakhs on the ground water recharge system works. The activity wise details with the timeline and cost are detailed below:

*Table 7 Ground Water Recharge System Plan*

Year	Activity	Amount	Location
2024-25	Construction of Check dam	Rs 10.0 Lakhs	Between Heerapalla and Bhogaikhapa Gram
2025-26	Renovation & Deepening of Pond at Bhogaikhapa Gram	Rs 20.0 Lakhs	Bhogaikhapa Gram
2026-27	Renovation & Deepening of Pond at Totidoh Gram	Rs 15.0 Lakhs	Totidoh Gram
Total		Rs 45.0 Lakhs	

Therefore, the overall existing and proposed RTRWHS are augmenting the groundwater recharge to the tune of **11234m<sup>3</sup>/year** in the study area. The additional three ground water recharge works will further augment the ground water recharge in the area.

**ADS: 10 Traffic density study and road plan for coal transportation to be submitted with proposed mitigation measures.**

Reply:

Traffic Density study has been conducted on the coal transportation route. The route was found to be adequate for coal transportation. The coal is lifted by the thermal power plant from the coal stock of the mine. The road utilized by the thermal power plants for transportation of coal is shown below:

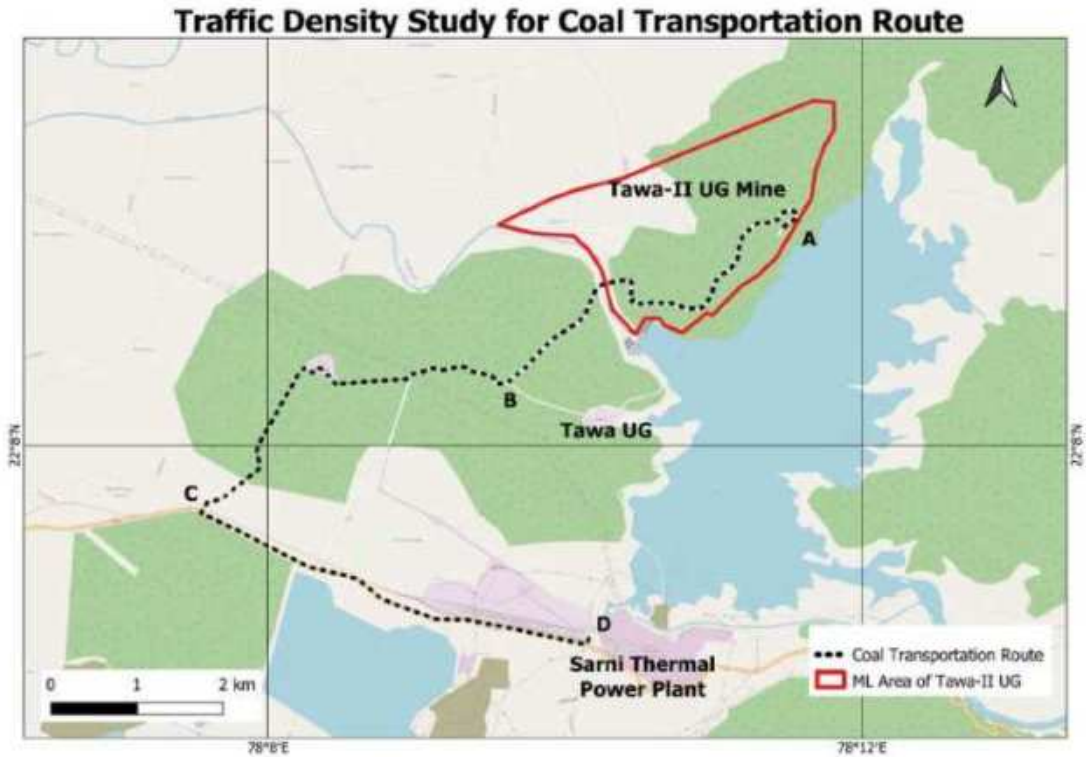


Figure 7 Figure showing the coal transportation route

The total length of the coal transportation route was divided into three sections for the purpose of traffic density study. These sections are divided based on the nodes connecting the different roads. The sections considered for this study is presented in table below:

S No.	Section	Location of Section	Remarks
1.	AB	Tawa-II UG Mine up to Tawa UG	The traffic in this section is due to coal transportation and commuting by project employees from Tawa-II UG Mine
2.	BC	The traffic of Tawa-II UG Mine and Tawa UG	The traffic in this section is due to coal transportation and commuting by project employees from Tawa UG Mine and Tawa-II UG Mine
3.	CD	State Highway – 43 (from Kali Mati Check post to Sarni Thermal Power Plant)	This includes the local traffic on the State Highway beside above traffic from the Coal Mines.

Traffic density study was conducted on from 28<sup>th</sup> March till 30<sup>th</sup> March, 2024. The traffic density was recorded from 8.00 AM on 28<sup>th</sup> March till 8.00 AM on 30<sup>th</sup> March. Thus covering the 48 hours' period to provide wide traffic density data. The study was conducted for 48 hours continuously and hourly traffic density was identified.



Figure 8 Traffic Survey along Coal Transportation Route

Traffic study has been conducted at Coal Transportation Route and State Highway-43. Coal is lifted by the Sarni Thermal power plant from the coal stock of the Tawa-II UG Mine. Transportation of minerals is done 100% by road. Existing PCU is 657.45 PCU/hr on State Highway 43 and existing level of service (LOS) is:

Road	V (Volume in PCU/hr)	C (Capacity in PCU/hr)	Existing V/C Ratio	LOS
Tawa-II UG Mine up to Tawa UG	219.20	1200	0.18	A
The road from Tawa UG junction till State Highway 43	247.95	1200	0.20	B
State Highway – 43 (from Kali Mati Check post to Sarni Thermal Power Plant)	657.45	1500	0.43	C

PCU load after proposed expansion will be 657.45 (Existing) + 29.69 (Additional) at the State Highway 44.

PCU/hr and level of service (LOS) will be:

Road	Existing V (Volume in PCU/hr)	Incremental V (Volume in PCU/hr)	Cumulative V (Volume in PCU/hr)	C (Capacity in PCU/hr)	Proposed cumulative V/C Ratio	LOS
Tawa-II UG Mine up to Tawa UG	219.20	29.69	248.89	1200	20.70	B
The road from Tawa UG junction till State Highway 43	247.95	29.69	277.64	1200	0.23	B
State Highway – 43 (from Kali Mati Check post to Sarni Thermal Power Plant)	657.45	29.69	687.14	1500	0.45	C

Note: Capacity as per IRC-1990 Guideline for capacity for roads is 1500 PCU/Hour for 2 Lane Road (Two Way). Conclusion: The level of service will remain Good after including additional traffic due to the proposed project.

**ADS -11 PP shall conduct a drone video survey for 10 minutes for clear view of the project.**

Compliance: A drone video of the project showing the mine infrastructure, coal transportation, mine lease area, natural plantation and adjacent surface features is attached. The gdrive link is placed below:

<https://drive.google.com/drive/folders/1JtubCf647jxgJMKEQIETZSKldDOKziY3?usp=sharing>

Note: Annexures are also provided in the above link.

**ADS-12 Issues raised during public hearing shall be addressed with reply based on fund allocated for issue & timeline for completing the issue.**

Compliance:

The public Hearing for Tawa-II Exapsnion UG Mine was successfully conducted on 25.08.2022 at Project Office, Hirapalla Village, Tehsil Ghoradongri, district Betul, Madhya Pradesh. Based on the Public Hearing Proceedings, the points raised by Public are being complied along with commitments made by the proponent and the action proposed with budget and timeframe. The details of all the issues raised by Public hearing and action with budget and suitable timeframe are provided in Annexure VI. The year wise summary of budget proposed to address the issues raised during Public Hearing is provided below:

Sl. No	Particulars	Year-1 (In Lakhs) (2024-25)	Year-2 (In Lakhs) (2025-26)	Year-3 (In Lakhs) (2026-27)	Total (In Lakhs)
1	Infrastructure creation for Drinking water supply	3.00	3.00	3.00	9
2	Skill Development & Education	10.00	10.00	10.00	30
3	Roads	10.00	10.00	10.00	30
4	Rainwater Harvesting	10.00	10.00	10.00	30
5	Medical Camp	2.00	2.00	2.00	6
6	Art, Culture & Sports	0.50	0.50	1.00	2
7	Others	5.00	5.00	5.00	15
	Total	40.5	40.5	41	122

**ADS-13 PP shall bring out the transportation route to be followed and why belt conveyor cannot be installed. Further, possibility of using EV vehicle may also be explored. The PP shall also submit a cost analysis of setting up of belt conveyor vis-a vis EV/CNG based tippers.**

Compliance:

The coal from Tawa-II UG mine is lifted by Sarni Thermal Power Plan of MPPGCL.

The coal transportation route followed is shown in the plan below:



As per the route plan, distance from Tawa-II mine to MPEB Siding, Sarni is approx 15 kms. The tentative cost of belt conveyor system (Considering 1000mm belt width, 300tph capacity, belt length of 700-800mtr, total nos of belts 20 nos) from Tawa-II mine to MPEB Siding, Sarni comes around 275.0 Crore (with GST and excluding land cost). However, the estimate may change during detailed design considering all the surface features (road, river, nala, Electrical OHL,

Surface RL etc) also the nos of belts may increase further due to zig-zag nature of transportation route.

Considering the high cost of Belt Conveyor and zig-zag nature of coal transportation route, the belt conveyor is ruled out.

As the Coal transportation activity is falls under the jurisdiction of MPPGCL, Sarni as per the Fuel Supply Agreement between WCL & Madhya Pradesh Power Generating Company Limited. The coal transportation is done by the MPPGCL, Sarni from coal stock of Tawa-II UG mine to Thermal Power Plant, Sarni. Hence, in order to explore the possibility of setting up of a conveyor belt system & use the EV/CNG vehicle, a formal request has been made to the Sarni Thermal Power Plant, MPPGCL for exploring and utilizing the EV/CNG vehicles for coal transportation. **A request letter in this regard has been sent by Project Proponent to MPPGCL, Sarni vide letter dated 06.04.2024. The copy of letter is attached herewith.** W.r.t. above letter, submission of MPPGCL (Copy enclosed) is as follow:

- ✓ **Exploring the possibility of setting up of conveyor belt for transportation of coal from Tawa – II UG Mine to Sarni Thermal Power Plant.:** the option for setting up of conveyor belt for transportation of coal from Tawa – II UG Mine to Sarni Thermal Power Plant worth Rs. 275 Crore for a short span of 06 (Six) years is financially not viable.
- ✓ **Exploring the possibility of CNG based tippers:** Currently, There is no CNG filling station available in the Betul District of M.P., Hence use of CNG based tippers is technically not possible for this project.
- ✓ **Exploring the possibility of EV based tippers:** Possibilities of transportation of coal through EV is being explored. Preference will be given to Electric Vehicle based tippers for coal transportation in future, if available.

नागपुर कोर्ट के अधिकार क्षेत्र में

Under Jurisdiction of Nagpur Court only



G26

Western Coalfields Limited  
मिनिरत्न कंपनी (A Miniratna Company)  
कॉल इंडिया लिमिटेड की अनुषंगी कंपनी  
(A Subsidiary of Coal India Limited)

क्षेत्रीय महाप्रबंधक, कार्यालय, पाथाखेरा क्षेत्र / Office of Area General Manager, Pathakhera Area

Email: agmanthakhera.wcl@coalindia.in Phone/FAX: 07146-270455 CIN: I0100MH1975G:Q1018626

पञ्जीकृत कार्यालय - वेस्टर्न कोलफील्ड्स लिमिटेड, पाथाखेरा क्षेत्र, 460449 Regd. Off. WESTERN COALFIELDS LIMITED, PATHAKHERA - 460449

पत्र क्रमांक /Ref.No.: WCL/PKD /AGM / 2024 / 02 दिनांक / Date: 06/04/2024

To,  
Chief Engineer (Gen.),  
STPS, MPPGCL, Sarni.

**Subject:** - Regarding exploring the possibility of setting up of conveyor belt for transportation of coal from Tawa II UG mine to Sarni Thermal Power Plant or Use of EV/CNG Tippers in coal transportation in compliance of the MoEF&CC directions given vide 6<sup>th</sup> EAC meeting held on 18.01.24 for EC expansion of Tawa II UG mine.

**Reference:-** 6<sup>th</sup> EAC MoM for EC expansion of Tawa II UG mine, WCL Pathakhera Area held on 18.01.2024

Dear Sir,

The proposal of expansion of Tawa II UG mine with increase in production capacity from 0.60 MTPA to 0.86 MTPA in ML Area of 523.75 ha. has been appraised in the 6<sup>th</sup> EAC meeting of MoEF&CC, New Delhi held on 18-01-2024.

Subsequently, EAC has directed to submit additional information for further consideration. A copy of minutes of the meeting is enclosed for reference. The following EAC directive of MoEF &CC, New Delhi is quoted below:

**Quote:**

*"xiii. PP shall bring out the transportation route to be followed and why belt conveyor cannot be installed. Further, possibility of using EV vehicle may also be explored. The PP shall also submit a cost analysis of setting up of belt conveyor vis-a vis EV/CNG based tippers."*

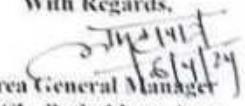
**Unquote:**

Presently the transportation of coal from Tawa II UG mine to Sarni Therma Power Plant is being done by TPS, Sarni through road transportation.

In the safeguard of Environment and as per the EAC directives, it is requested to exolore the possibilities of setting up of conveyor belt from Tawa II UG mine to Sarni Thermal Power Plant or use of EV trucks for coal transportation.

Waiting for your kind response.

With Regards,

  
Area General Manager  
WCL, Pathakhera Area

Encl: As above

Copy to: General Manager – HoD (Env.), WCL HQ



# MADHYA PRADESH POWER GENERATING CO. LIMITED

(Govt. of MP under taking)

O/o THE SUPERINTENDING ENGINEER (SERVICES)-II, STPS

P.O. SARNI : DISTRICT-BETUL (M.P.) 460 447

E-mail : seservices2stps@gmail.com PHONE: 07146 - 278161 Website:- mppgcl.mp.gov.in

No. 505/1800/CHP-III/

10542

Sarni, Dtd. 28 MAY 2024

To,

Area General Manager,  
WCL Pathakhera Area

**Subject** Regarding exploring the possibility of setting up of conveyor belt for transportation of coal from Tawa II UG mine to Sarni Thermal Power Plant or Use of EV/CNG Tippers in coal transportation in compliance of the MoEF&CC directions given vide 6th EAC meeting held on 18.01.24 for EC expansion of Tawa II UG mine.


**Ref:** i) 6<sup>th</sup> EAC MoM for EC Expansion of Tawa II UG mine, WCL Pathakhera Area held on Dtd. 18.01.2024  
ii) Your letter no. WCL/PKD/AGM/2024/02 dated 06/04/2024

Dear Sir,

In reference to the above subject, point wise reply of MPPGCL is as follows:

1. Exploring the possibility of setting up of conveyor belt for transportation of coal from Tawa II UG mine to Sarni Thermal Power Plant:
  - The balance Extractable reserves of Tawa-II mine is 52.2 LMT as on 01.04.2024.
  - Considering the Annual production of Tawa - II UG Mine at proposed/enhanced capacity (EC) i.e. 0.85 MTPA, the balance life of Tawa - II UG Mine is around 6 years only.
  - The length of the transportation route from Tawa-II UG mine to MPEB Siding, Sarni is about 15.3 kms.
  - In case of coal transportation through Belt Conveyors, total requirement of belts will be 60 nos, 1000 mm wide belt, each belt 250-300 mtr, capacity 400 TPH.
  - Tentative cost of belt conveyor system considering the above details from Tawa-II mine to MPEB Siding, Sarni comes around Rs. 275 Crore (with GST and excluding land cost).
  - However, the estimate may change during detailed design considering all the geographical features also like Road, River, Electrical OHL, Surface RL, Forest etc. therefore the number of belts may increase further due to Hilly area in transportation route.
  - Hence, based on the above data, the option for setting up a conveyor belt system worth Rs. 275 Crore for a short span of 06 (Six) years is financially not viable.
2. Exploring the possibility of CNG Vehicle:- Currently there is no CNG filling station available in the Betul District of M.P., hence use of CNG based tippers is technically not possible.
3. Exploring the possibility of Electric Vehicle:- Possibilities of transportation of Coal through EV is being explored, preference will be given to Electrical Vehicle based tippers for Coal transportation in future if available.

For the existing coal production capacity of 0.600 MTPA, MPPGCL has already awarded a coal transportation contract through diesel Trucks, which is valid up to 24/09/2024. After the completion of the existing contract, Fresh Tenders will be floated for the enhance capacity of coal transportation.

  
S.E. (Services)-II  
STPS, MPPGCL, Sarni

Copy to:-

01. The Chief Engineer (Gen.), STPS, MPPGCL, Sarni
02. The Addl. Chief Engineer (I), STPS, MPPGCL, Sarni

~~TO BE~~ PUBLISHED IN PART II SECTION 3 SUB-SECTION (ii) OF  
THE GAZETTE OF INDIA)  
\*\*\*\*\* dt. 9.9.78

GOVERNMENT OF INDIA (BHARAT SARKAR)  
MINISTRY OF ENERGY (DOORJA MANTRALAYA)  
DEPARTMENT OF COAL (KOYLA VIBHAG)  
\*\*\*\*\*

New Delhi, Dated the 21st August, 1978

NOTIFICATION

S.D.2617 Whereas by the notification of Government of India, in the Ministry of Energy (Department of Coal) S.O. No. 15(E) dated the 7th January, 1977, under sub-section (1) of Section 7 of the Coal Bearing Areas (Acquisition and Development) Act, 1957 (20 of 1957), the Central Government gave notice of its intention to acquire the rights to mine, quarry, bore, dig and search for, win, work and carry away minerals in the lands measuring 3533.552 acres (approximately) or 1430.009 hectares (approximately) described in Schedule 'A', 'B' and 'C' appended to that notification.

AND WHEREAS no objection was made to the acquisition of mining rights in the locality aforesaid;

AND WHEREAS the Central Government after consulting the Government of Madhya Pradesh is satisfied that the rights to mine, quarry, bore, dig and search for, win, work and carry away minerals in the lands measuring 3533.552 acres (approximately) or 1430.009 hectares (approximately) described in the Schedule 'A', 'B' and 'C' appended hereto, should be acquired.

NOW, THEREFORE, in exercise of the powers conferred by sub-section (1) of Section 9 of the said Act, the Central Government hereby declares that the rights to mine, quarry, bore, dig and search for, win, work and carry away minerals in the lands measuring 3533.552 acres (approximately) or 1430.009 hectares (approximately) described in the said Schedule 'A', 'B' and 'C' are hereby acquired.

The plan of the area covered by this notification may be inspected in the Office of the Collector, Batul (Madhya Pradesh) or in the Office of the Coal Controller, 1, Council House Street, Calcutta or in the Office of the Western Coalfields Limited (Revenue Section), Bisasar House, Temple Road, Naspur (Maharashtra).

contd..... 2

PKD II  
70

- 2 -

PATHAKHERA BLOCK-III  
Pathakhera Coalfields  
( Madhya Pradesh ).

SCHEDULE - 'A'

Drq. No. WCL/PLG/PKD/Land/C-1(E)/  
111/FR/073-0278

Dated: 7-12-1977

(Showing lands where  
rights to mine, quarry,  
bore, dig and search  
for, win, work, carry  
away minerals are  
acquired).

MINING RIGHTS

Sl. No.	Village	Patwari Circle No.	Tahsil & District	Area in hectares		Total HECTARES	Remarks
				Revenue land	Government land		
1.	Sobhapur	23	Betul	164.213	248.169	412.382	Part
2.	Bagdona	23	"	Nil	3.791	3.791	"
3.	Bhogai-Khapa	22	"	374.908	125.614	500.522	"
Total				539.121	377.574	916.695 (approx.)	or 2265.208 acr (approx.)

Plot numbers acquired in village Sobhapur:  
1(P), 2(P), 5, 6(P), 7(P), 8 to 30, 31(P), 32(P), 33 to 111,  
112(P), 113 to 134, 135(P), 136(P), 137(P), 138(P), 140(P),  
141 to 186.

Plot number acquired in village Bagdona :  
119(P).

Plot numbers acquired in village Bhogaikhapa:  
9(P), 10(P), 11(P), 12(P), 13 to 20, 21(P), 22(P), 23(P),  
24(P), 78(P), 79, 80(P), 83(P), 84, 85, 86(P), 89(P), 90,  
91(P), 92(P), 93, 94(P), 101(P), 102 to 216, 217(P), 218(P),  
230(P), 231, 232(P), 233(P), 234(P), 235 to 248, 249(P).

contd.....3

DICP 11  
11

- 3 - 1

GOVT. FOREST

MINING RIGHTS

SCHEDULE-'B'

Drg.No. WCL/PLG/PKD/Land/C-1(E) /  
III/FR/073-0278

Dated: 7-12-1977

(Showing lands where rights to mine, quarry, bore, dig and search for, win, work, carry away minerals are acquired).

Sl. No.	Name of Compartment	Forest No.	Coup No.	Tahsil & District	Area in Hectares	Remarks
1.	ASIR Reserve Forest.	398	XIII	Betul	59.893	Full
	"	"	XIV	"	41.784	Part
	"	"	XV	"	41.277	Full
	"	"	XLII	"	3.571	Part
	"	"	XLIII	"	14.174	Part
	"	"	XLIV	"	13.274	Part
2.	"	399	XLVIII	"	48.562	Full
	"	"	XLIX	"	50.181	Full
	"	"	L	"	40.468	Full
3.	"	400	XXVIII	"	42.099	Part
	"	"	XXIX	"	0.104	Part

Total ... 356.377 (approximately)  
or  
878.074 (approximately)  
acres

MINING RIGHTS

SCHEDULE-'C'

Drg.No. WCL/PLG/PKD/Land/C-1(E) /  
III/FR/073-0278

Dated: 7-12-1977

(Showing lands where rights to mine, quarry, bore, dig and search for, win, work, carry away minerals are acquired).

Sl. No.	Name of Owner	Tahsil	District	Area in hectares	Remarks
1.	Rehabilitation Department of Madhya Pradesh.	Betul	Betul	71.536	Part
2.	Sarni Thermal Power House of M.P.E.B.	Betul	Betul	86.401	Part

Total .... 157.937 (approximately)  
or  
390.270 (approximately)  
acres

Total Area of Schedule A, B & C : 1430.009 (approximately)  
hectares  
OR 3533.552 (approximately)  
acres

contd.....4

Boundary Description of Schedule A, B & C of Pathakhara Block - III.

- A-B Line passes through plot nos. 2, 6, 112, 164, 135, 136, 137, 138 and 140 of village Sobhapur and plot no. 119 of village Bagdona and meets at point 'B'.
- B-C Line passes through plot no. 119 of village Bagdona and plot no. 164 of village Sobhapur and meets on common boundary of villages Sobhapur and Ranipur Reserve Forest at point 'C'.
- C-D Line passes along the common boundary of villages Sobhapur and Ranipur Reserve Forest and meets on common boundary of villages Bhogai Khapa and Sobhapur in Tawa River at point 'D'.
- D-E Line passes along the common boundary of villages Bhogai Khapa and Ranipur Reserve Forest along Tawa River and meets at point 'E'.
- E-F Line passes partly along the common boundary of Asir Reserve Forest and Ranipur Reserve Forest and partly along the common boundary of Ranipur Reserve Forest and Madhya Pradesh Electricity Board area along Tawa River and meets at point 'F'.
- F-G Line passes through the Madhya Pradesh Electricity Board area, Asir Reserve Forest, Compartment No. 398, Coup Nos. XIV, XLIII and XLII and meets at point 'G'.
- G-A Line passes partly through Asir Reserve Forest, Compartment No. 398, Coup No. XLII, Compartment No. 400, Coup Nos. XXIX & XXVIII and the area transferred to the Rehabilitation Department of Government of Madhya Pradesh and through plot nos. 234, 233, 232, 230, 217, 218, 101, 94, 92, 91, 89, 86, 83, 80, 78, 21, 23, 22, 24, 12, 10, 9, 11 and 249 of village Bhogai Khapa and plot nos. 1, 2, 32, 31 and 7 of village Sobhapur and meets at starting point 'A'.

*S.R.A. Rizvi*

(S.R.A. RIZVI)  
DIRECTOR  
No. 19(13)/78-CL

contd....5

To  
The Manager,  
Government of India Press,  
Ring Road, Mayapuri,  
NEW DELHI.

Copy forwarded for information and necessary action to:

1. The Secretary to the Govt. of Madhya Pradesh, Mineral Resources Department, Bhopal. It is requested that the Notification may be re-published in the State Gazette and a copy thereof may be sent to this Ministry.

It is also requested that if the above Notification relates to any land or to any rights in or over land belonging to the State Government, their views on issue of declaration under section 9 of the Coal Bearing Areas (Acquisition and Development) Act, 1957, for such land or rights by the Central Government may be communicated to this Ministry immediately.

2. The Coal Controller, 1, Council House Street, Calcutta, with two spare copies along with two copies of the plan for inspection by the interested parties.
3. The Chairman, Coal Board, Calcutta.
4. The Controller, Indian Bureau of Mines, Nagpur (with two spare copies.).
5. The Director General, Geological Survey of India, Calcutta.
6. The Collector, Betul (Madhya Pradesh) with two spare copies along with two copies of the plan for inspection by the interested parties.
7. The Planning Commission, New Delhi.
8. The Conf. Secretary, Coal India Limited, Flat No. 402-404 (4th floor), Ansal Bhavan, 16, Kasturba Gandhi Marg, New Delhi.
9. The Chairman-cum-Managing Director, Western Coalfields Limited, Bissar House, Temple Road, Nagpur-1 (with 20 spare copies.
10. The Chairman-cum-Managing Director, Central Coalfields Limited, Darbhanga House, Ranchi.
11. The Chairman-cum-Managing Director, Central Mine Planning and Design Institute Ltd., Darbhanga House, Ranchi.
12. The Librarian, Department of Mines, with the request that a copy of the Gazette in which this notification is published may be supplied to Coal-VI Section.

*S.R.A. Rizvi*  
(S.R.A. RIZVI)  
DIRECTOR  
No. 19(13)/78-CL

*Publicity*  
11/7/98

WCL/CMD/1000/11/1  
Dated:- 20/7/98

BE PUBLISHED IN PART II, SECTION 3, SUB-SECTION (11) OF THE  
GAZETTE OF INDIA)

GOVERNMENT OF INDIA (BHARAT SARKAR)  
MINISTRY OF COAL (KOYLA MANTRALAYA)

Dated, New Delhi, the 24th June, 1998.

Notification

S.O. 1253 Whereas by the notification of the Government of India in the Ministry of Coal, No. S.O. 550 (E) dated the 2nd August, 1996, published in the Gazette of India Extraordinary, Part II, Section 3, Sub-section (11), dated the 2nd August, 1996, under sub-section (1) of section 7 of the Coal Bearing Areas (Acquisition and Development) Act, 1957 (20 of 1957), the Central Government gave notice of its intention to acquire the rights to mine, quarry, bore, dig and search for, win, work and carry away minerals in the lands measuring 588.253 hectares (approximately) or 1453.573 acres (approximately) in mining rights in the locality specified in the Schedule annexed to that notification ;

And whereas the competent authority in pursuance of section 8 of the said Act has made his report to the Central Government ;

And whereas the Central Government, after considering the said report and after consulting the Government of Madhya Pradesh, is satisfied that the mining rights to mine, quarry, bore, dig and search for, win, work and carry away minerals in the lands measuring 588.253 hectares (approximately) or 1453.573 acres (approximately) described in the Schedule appended hereto should be acquired;

Now, therefore, in exercise of the powers conferred by sub-section (1) of section 9 of the said Act, the Central Government hereby declares that the mining rights to mine, quarry, bore, dig and search for, win, work and carry away minerals in the lands measuring 588.253 hectares (approximately) or 1453.573 acres (approximately) described in the schedule appended hereto are hereby acquired.

The Plan bearing number C-1(E) III/FFR/618-197 dated the 7th January, 1997 of the area covered by this notification may be inspected in the Office of the Collector, Betul (Madhya Pradesh) or in the office of the Coal Controller, 1, Council House Street, Calcutta - 700 001 or in the Office of the Western Coalfields Limited (Revenue Department), Coal Estate, Civil Lines, Nagpur-460 001 (Maharashtra).

2 \ Contd..... 2/.....

SCHEDULE 'A'  
TAWA EXTENSION BLOCK  
PATIAKHERA AREA  
DISTRICT BETUL (MADHYA PRADESH)

(Plan No. C-1(E)/III/FFR/618- 197, dated the 7th January, 1997)

Mining Rights

Serial number	Name of Forest	Compartment number	Tahsil	District	Area in hectares	Remarks
1.	Asir Reserve Forest of Government of Madhya Pradesh.	396	Betul	Betul	29.219	Part
2.	Asir Reserve Forest of Government of Madhya Pradesh.	397	Betul	Betul	168.691	Part
3.	Asir Reserve Forest of Government of Madhya Pradesh.	398	Betul	Betul	98.078	Part
4.	Asir Reserve Forest of Government of Madhya Pradesh.	400	Betul	Betul	66.265	Part
					362.253 hectares (approximately)	
					or	
					895.127 acres (approximately).	

Contd.....3/.....

SCHEDULE 'B'Mining Rights

Serial number	Name of owner	Compartment number	Tahsil	District	Area in hectares	Remarks
1 (A)	Rehabilitation Department of Government of Madhya Pradesh.	397	Betul	Betul	41.000	Part
(B)	Rehabilitation Department of Government of Madhya Pradesh.	400	Betul	Betul	121.000	Part
2 (A)	Madhya Pradesh Electricity Board, Sarni.	399	Betul	Betul	11.000	Part
(B)	Madhya Pradesh Electricity Board, Sarni.	398	Betul	Betul	53.000	Part

226.000 hectares  
(approximately)  
or  
558.446 acres  
(approximately)

Grand Total (Schedule 'A' + Schedule 'B') = 588.253 hectares  
(approximately)  
or  
1453.573 acres  
(approximately)

Compartment numbers acquired in Anti Reserve forest of Government of Madhya Pradesh :

396 part, 397 part, 398 part, 400 part.

Contd.....4/

Compartment numbers acquired in Rehabilitation Department  
of Government of Madhya Pradesh:

397 part, 400 part.

Compartment numbers acquired in Madhya Pradesh Electricity  
Board, Sarni:

398 part, 399 part.

Boundary description:

- A-B : Line starts from point 'A' and passes through Rehabilitation Area of Government of Madhya Pradesh in compartment number 400, then proceeds through Asir Reserve forest of Government of Madhya Pradesh in compartment numbers 400 and 398 and meets at point 'B'.
- B-C : Line passes through Asir Reserve forest of Government of Madhya Pradesh in compartment number 398, then proceeds through area of Madhya Pradesh Electricity Board, Sarni in compartment numbers 398, 399 and meets at point 'C'.
- C-D : Line passes through the area of Madhya Pradesh Electricity Board, Sarni, along the outer boundary of compartment numbers 399, 398, then proceeds through the area of Asir Reserve forest of Government of Madhya Pradesh along the outer boundary of compartment numbers 398, 397, 396, then in compartment number 396 and meets at point 'D'.
- D-E : Line passes through the area of Asir Reserve forest of Government of Madhya Pradesh in compartment numbers 396 and 397 and meets at point 'E'.
- E-F-A : Line passes through the Rehabilitation area of Government of Madhya Pradesh in compartment numbers 397, 400 and meets at starting point 'A'.

29/6/78

(J.L. MEENA)  
DIRECTOR

(No. 43015/22/91-LSU/PR1W)

To,

The Manager (Technical),  
Government of India Press,  
Ring Road, Mayapuri,  
New Delhi.

Copy forwarded for information and necessary action to :

1. The Secretary to the Government of Madhya Pradesh, Mineral Resources Department, Bhopal (MP). It is requested that the notification may be republished immediately in the State Gazette and a copy of the same may be sent to this Ministry.
2. The Coal Controller, 1, Council House Street, Calcutta, with two spare copies along with two copies of the plan for inspection by the interested parties.
3. The Controller, Indian Bureau of Mines, Nagpur (with two spare copies).
4. The Director General, Geological Survey of India, Calcutta.
5. The Collector, Betul (Madhya Pradesh) - with two spare copies along with two copies of the plan for inspection by the interested parties.
6. The Planning Commission, New Delhi.
7. The Regional Manager, Coal India Limited, Flat No. 402-404 (4th floor), Ansal Bhavan, 16, Kasturba Gandhi Marg, New Delhi.
8. The Chairman-cum-Managing Director, Western Coalfields Limited, Coal Estate, Civil Lines, Nagpur 440 001 (Maharashtra State) (with 20 spare copies).
9. The Chairman-cum-Managing Director, Central Mine Planning and Design Institute Limited, Gondwana Palace, Kenke Road, Ranchi.
10. The Regional Director, Central Mine Planning and Design Institute Limited, Jaripatka, Nagpur.
11. For folder.

CGM C/c P/P  
ms  
20/7/98

√ 29/6/98  
( J.L. MEENA )  
DIRECTOR  
NO. 43015/22/91-LSW/PRIV



भारत सरकार  
GOVERNMENT OF INDIA  
पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय  
MINISTRY OF ENVIRONMENT, FOREST  
AND CLIMATE CHANGE

## SPEED POST

रेजीयनल कार्यालय  
Regional Office  
"केन्द्रीय पर्यावरण भवन"  
"Kendriya Paryavaran Bhavan",  
लिंक रोड नं-3 Link Road No. 3, E-5,  
रविशंकर नगर/Ravi Shankar Nagar,  
भोपाल (म.प्र.)/ Bhopal-462016 (M.P.)  
Ph. 0755-2469707, 2466525  
फैक्स नं./Fax No. 0755-2463102  
अनुदाक / E-mail: rowz.bpl-mef@nic.in

दिनांक: 01/11/2023

फाईल क्र. 3-50/2006(Env)

प्रति,

निदेशक (मॉनीटरिंग सैल),  
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय,  
इंदिरा पर्यावरण भवन,  
जोर बाग रोड, अलीगंज,  
नई दिल्ली-110003

विषय: मेसर्स वेस्टर्न कोलफील्ड्स लिमिटेड (डब्ल्यू.सी.एल.) को ग्राम - हीरापल्ली, तहसील - घोडाडोंगरी, जिला - बैतूल मध्यप्रदेश के पाम स्थित है तवा-II भूमिगत विस्तार परियोजना (0.18 एमटीपीए से 0.6 एमटीपीए तक) के लिए पर्यावरणीय स्वीकृति (Environmental Clearance) के संबंध में।

संदर्भ: i. मंत्रालय (MoEF&CC) का पत्र क्र. J-11015/53/2006-IA.II(M) दिनांक 02.08.2006  
ii. मंत्रालय (MoEF&CC) का पत्र क्र. J-11015/53/2006-IA.II(M) दिनांक 15.01.2021 (ई.सी. पुनर्विधीकरण)

महोदय,

मंत्रालय के उपरोक्त संदर्भित पत्रों के संदर्भ में उक्त परियोजना को पर्यावरणीय दृष्टिकोण से अनुमति देते समय अनुबद्ध शर्तों के अनुपालन एवं "certification of compliance" के निर्देशानुसार, पर्यावरणीय अनुमति दिनांक 02.08.2006 व 15.01.2021 का अनुवीक्षण प्रतिवेदन (मॉनीटरिंग रिपोर्ट) एतद् द्वारा संलग्न कर प्रेषित है।

2.0 यह सक्षम प्राधिकारी द्वारा अनुमोदित है।

संलग्नक: उपरोक्तानुसार

भवदीय,

(विश्व बन्धु मीणा)  
वैज्ञानिक 'डी'

प्रतिलिपि:

- सदस्य सचिव, कोल-माइन, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, इंदिरा पर्यावरण भवन, जोर बाग रोड, अलीगंज, नई दिल्ली - 110003 की ओर सूचनार्थ हेतु।
- मेसर्स वेस्टर्न कोलफील्ड्स लिमिटेड (डब्ल्यू.सी.एल.), उपक्षेत्र प्रबंधक, तवा-II उपक्षेत्र, ग्राम-हिरापल्ली, पी.ओ. पाथखेडा, तहसील-घोडाडोंगरी, जिला - बैतूल, मध्य प्रदेश - 460449 की ओर सूचनार्थ हेतु।

(विश्व बन्धु मीणा)  
वैज्ञानिक 'डी'

**Monitoring the Implementation of Environmental safeguards  
Ministry of Environment, Forest & Climate Change  
Regional office, Bhopal**

**Monitoring Report  
PART-I  
DATA SHEET**

S. No.	Particulars	Details
1.	Project type: River- valley/ Mining/ Industry/ Thermal/ Nuclear/Other	Mining (Coal)
2.	Name of the project	Tawa-II UG Expansion Coal Mine Project
3.	Clearance letter (s)/OM No. & dated	MOEF OM No. J-11015/53/2006-IA-II(M) Date:- 15 <sup>th</sup> January, 2021 (Revalidation Of Earlier EC No. J-11015/53/2006-IA-II(M) dtd 02/08/2006 granted for 0.600 MTPA Production Capacity)
4.	Location: a) Village b) Tehsil c) District d) State e) Location Latitude/Longitude	Hirapalla Village of Bhogaikhapa Gram Panchayat Ghoradongri, Betul Madhya Pradesh 22°08' 44" N to 22°10'18" N and 78°09'33" E to 78°11'48" E
5.	Address for correspondence: a) Address of the Concerned Project Chief Engineer (with Pin Code & telephone/ telex/ fax numbers)  b) Address of concerned Project Engineer/ Manager (with Pin Code/fax numbers)	Sub Area Manager, Tawa - II Sub Area Village - Hirapalla, P.O.- Pathakhera, Tahsil- Ghoradongri, Dist: Betul (MP) Pin No.- 460 449 Phone: 7987104114 , 6263751057  Manager, Tawa – II UG Expansion Mine C/o Sub Area Manager, Tawa - II Sub Area Village - Hirapalla, P.O.- Pathakhera, Tahsil- Ghoradongri, Dist: Betul (MP) Pin No.- 460 449 Phone: 7987104114 , 6263751057
6.	a) Salient features of the Project	Tawa-II UG Expansion Coal Mine Project is an existing coal mine of Western Coalfields Limited. It comes under the administrative Jurisdiction of Pathakhera Area. The Mine feed coal directly to Satpura Thermal Power plant, Sarni Located in the South direction of the Project. This project has an existing approved EC Capacity of 0.600 MTPA & project Area of 520 Ha. In order to meet the rising demand of coal for energy requirement of our nation, It is being proposed by the Project Proponent to increase the production Capacity from 0.600 MTPA to 0.860 MTPA in EC with Proposed Project Area of 523.75 Ha. The Mine is having 02 Working Coal Seams named Lower Workable Seam (L.W.S.) and Bagdona. The Balance Mineable Coal Reserves as on 01.04.2023 is

I/56525/2023

	4.81 MT. The overall Average grade of Coal is G8.
b) Salient features of the Environmental Management Plan	<p><b>Environmental Pollution Control Measures:</b></p> <p><b>Air/Dust pollution Control Measures:</b></p> <p>This is an underground mine. All the mining activities i.e. Drilling, Blasting, Loading, unloading, transportation of coal from district to surface has been carried out in the closed condition w.r.t. an open cast mine where all the activities are being carried out in an exposed circumstances.</p> <p>Along with that, Following air Pollution control mechanism has been introduced:</p> <ol style="list-style-type: none"> <li>1. Spray points have been provided in conveyor belt to prevent emission due to transportation.</li> <li>2. Tawa - II UG mine does not contain Coal Crushing facility.</li> <li>3. All the internal roads have been black topped and regularly maintained to prevent fugitive emission.</li> <li>4. Sprinkler &amp; Rain guns have been installed along the coal stock Yard, near Internal Coal Transportation Road, Near Way bridge and Coal Bunker for dust suppression purpose.</li> <li>5. Mine is located in a dense forest which is an effective means of Wind barrier.</li> </ol> <p><b>Water Pollution Control Measures:</b></p> <p>Underground Settling sump, Surface Settling Tanks, Pressure Filter for treatment of Strata Seepage Water.</p> <p>Employees of <i>Tawa- II</i> UG Mine are currently residing in a centralized township of Pathakhera Area. Each residential unit is provided with septic tank &amp; soak pit arrangement to deal with domestic effluent. The sizes of the same varies from 25 users to 250 users. This is 02 stage Sewage treatment as per IS 2470 part I&amp;II - 1985. The primary treatment is being given through septic tank and The secondary treatment is being given through soil absorption system. Hence, this is the standard practice and we are following the system. The arrangement does not allow any sewage to get mixed into any natural water course without treatment.</p> <p><b>Noise Pollution Control Measures:</b></p> <p>Maintenance of Machinery &amp; Transport Vehicles, Dense Vegetation around Mine Premises, ear plugs &amp; helmets to the workers, etc.</p> <p><b>Control of ground water depletion:</b></p> <p>Quarterly monitoring of ground water levels and annual monitoring of ground water quality is being done through</p>

1/56525/2023

		network of existing wells through NABL Accredited lab. Monitoring report is being regularly submitted to CGWB on annual basis. As on now no lowering of ground water observed in nearby area.
7.	Breakup of the project area	Total Project Area: 520 Ha. After Proposed Expansion (523.75 Ha) Forest Land: 385.171 Ha (Mining Right), 10.748 Ha (All Right), 3.750 Ha (All Right – for erecting 33 Kv power line) Non Forest Land : 123.721 Ha (Mining Right)
8.	Breakup of the project affected population with enumeration of those losing houses/dwelling units only and agricultural land & landless laborers/artisans: a) SC, ST/Adivasi b) Others c) (Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details & year of survey).	Nil, As No Displacement of any person took place.
9.	Financial details: Project cost as originally planned and Subsequent revised estimates and the year of price reference.	<ul style="list-style-type: none"> <li>Rs. 36.4332 crore as per the Approved PR of 2005</li> <li>Rs. 89.188 crore Additional Cost as per Approved PR of 2010</li> <li>Rs. 51.8213 crore Additional Cost as per Approved Scheme (including Mining Plan) of 2016</li> </ul>
	a) Environmental Management Plan cost.	Expenditure of Rs. 430.18 Lakhs under revenue head and Rs. 187.08 lakhs under capital head (as on March 2023)
	b) Benefit cost ratio/Internal rate of Return	As per the Clause 24.13 of Approved Scheme of Tawa – II Expansion Project (June 2016), “In LHDs - Departmental & C.M. - Hiring Option, the financial IRR of the project for Power, Defense & Fertilizer Sectors and Non Power Sectors works out to be negative at 100% and 85% of target capacity respectively. The desired selling price to achieve 12% IRR at 100% and 85% target capacity works out to Rs. 2298.56/t and Rs. 2559.47/t respectively.”
	c) Weather (c) includes the cost of environmental management as	Yes

1/56525/2023

	shown in the above.	
	d) Actual Expenditure incurred on project so far.	Capital Investment of Rs.87.88 Crore as on March 2023
	e) Actual Expenditure incurred on Environmental Management Plan so far.	Expenditure of Rs. 430.18 Lakhs under revenue head and Rs. 187.08 lakhs under capital head (as on March 2023)
10.	<b>Forest Land Requirement</b>	
	a) The status of approval for diversion of forest land for non-forestry use	<ul style="list-style-type: none"> <li>• Stage – II Forestry Clearance obtained for 195.20 Ha vide No. 8/97/97/FC dt 22.1.1999 (including 12.708 Ha. Surface Rights)</li> <li>• Stage – I Forestry Clearance has been obtained vide No.: 8-52/2017-FC dtd. 14/05/18 for remaining 201.079 Ha (Mining Right)</li> <li>• 3.75 Ha of Forest Land has been diverted vide No. : 6MPB/09/2006 /BHO/3741 dt.06/08/2007 for erecting 33 kV power line, Which has been acquired under surface Rights.</li> </ul>
	b) The status of clearing felling.	Not applicable.
	c) The status of Compensatory Afforestation, if any	
	d) Comments on the viability & sustainability of CA program in the light of actual field experience so far	Rs. 808.13 Lacs has been paid as a Compensatory Afforestation.
11.	Status of clear felling in non forest area (such as submergence area or reservoir , approach roads), if any quantitative information required	NIL.
12.	Status of construction (Actual/ planned) a) Date of commencement b) Date of completion	06/06/2006 Expected date of Completion of TAWA – II UG EXPANSION is up to 2028-29 (i.e. 6 Years from 01/04/2023).
13.	Reasons for delay if the project is yet to start.	No such delay
14.	Dates of site visits: a) The dates on which the project was monitored by the Regional Office on previous occasions, if any. b) Date of site visit for this monitoring report.	09/10/2018 & 21/01/2022  16/07/2023
15.	Details of correspondence with project authorities for obtaining action plans/ information on status of compliance to safeguards other than the routine letters for logistic support for site visits)	
	Date	Letter from RO
	Date	Letter from PP
	20/07/2023	: Project Proponent has been directed to submit a comprehensive compliance report vide Letter No.: 3-50/2006/(ENV)/R-59/P-6 dated 20/07/2023
	09/08/2023	: Project Proponent submitted the comprehensive EC compliance report alongwith the respective documents vide email dated 09.08.2023

## Part - II &amp; III

**DESCRIPTIVE REPORT ON STATUS OF COMPLIANCE TO CONDITIONS OF ENVIRONMENT CLEARANCE AND ENVIRONMENT MANAGEMENT**

- 1. Details of project:** Tawa-II Underground Expansion Coal Mine Project (0.60 MTPA) of M/s. Western Coalfields Limited (WCL), located near village- Hirapalli, Tehsil- Ghoradongari, Dist. Betul, Madhya Pradesh.

EC letter no. J-11015/53/2006-IA.II(M) Dated:- 2<sup>nd</sup> August, 2006

Sr. No.	EC Condition	Status of Compliance as submitted by the PP	Remarks of MoEF&CC, Regional Office based on the compliance status furnished by the Project Proponent and the on-field observations of the site visit
<b>A. SPECIFIC CONDITIONS</b>			
(i)	All the conditions stipulated by the SPCB in their NOC shall be effectively implemented	Condition complied. The conditions stipulated by MPPCB in their Consent to Operate have been duly complied and the Consents Compliance reports have been submitted to MPPCB through XgN portal on Regular interval.	<p>During the visit, the PP furnished the copy of Compliance status report of Consent which is also being submitted to MPPCB through XgN portal on Regular interval. It is noted that the conditions stipulated by MPPCB in their Consent to Operate are being complied.</p> <p><b>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied.</b></p> <p><b>COMPLIED</b></p>
(ii)	No mining shall be undertaken in lease area falling in forest land for which forestry clearance has not been obtained under the provision of the Forest Conservation Act 1980.	<p>Complied.</p> <p>No mining has been carried out the land area falling in forest area.</p> <p>As per the EC, total forest land involved in the project is as mentioned below for which Forestry clearance has been secured:</p>	As per the records made available by the Project Proponent, it is noted that necessary Forest Clearances has already been obtained by the Project Proponent in respect of the entire forest land involved with this project. The details of Forest

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		<ul style="list-style-type: none"> <li>• Forestry Clearance obtained for 195.20 Ha vide letter No. 8/97/97/FC dated 22.1.1999 (including 12.708 Ha. Surface Rights)</li> <li>• Stage – I Forestry Clearance has been obtained vide letter No.: 8-52/2017-FC dated 14/05/18 for remaining 201.079 Ha (Mining Rights)</li> <li>• 3.75 Ha of Forest Land has been diverted vide letter No. : 6MPB/09/2006/BHO/3741 dt.06/08/2007 for erecting 33 kV power line, which has been acquired under surface rights.</li> </ul>	<p>Clearances are as follow:</p> <ul style="list-style-type: none"> <li>• Stage – II Forestry Clearance obtained for 195.20 Ha vide No. 8/97/97/FC dt 22.1.1999 (including 12.708 Ha. Surface Rights)</li> <li>• Stage – I Forestry Clearance has been obtained vide No.: 8-52/2017-FC dtd. 14/05/18 for remaining 201.079 Ha (Mining Right)</li> <li>• 3.75 Ha of Forest Land has been diverted vide letter No. : 6MPB/09/2006/BHO/3741 dt.06/08/2007 for erecting 33 kV power line, Which has been acquired under surface Rights.</li> </ul> <p><b>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied.</b></p> <p><b>COMPLIED</b></p>
(iii)	<p>Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings should be continued till movement ceases completely. In case of observation of any high rate of</p>	<p>Condition complied. Subsidence Monitoring is being carried out on regular basis.</p> <p>Accordingly Subsidence Monitoring Plan has been prepared by the Highly skilled Team of DGMS Approved Survey Personnel. The cracks observed on the of surface has been duly plugging with ballast / clayey soil, etc</p>	<p>As per the observations &amp; records made available by the Project Proponent during the site visit, it is noted that Subsidence Monitoring is being carried out on regular basis.</p> <p>Accordingly Subsidence Monitoring Plan has been prepared by the Team of Survey officials. The cracks observed on the of surface has been duly plugging with</p>

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	<p>subsidence movement appropriate effective corrective measure should be taken to avoid loss of life and material. Cracks should be effectively plugged with ballast and clayey soil/ suitable materials.</p>		<p>ballast / clayey soil, etc</p> <p><b>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied w.r.t. the said site visit.</b></p> <p><b>COMPLIED</b></p>
(iv)	<p>Garland drain (size, gradient and length) around the safety areas such as mines shaft and low lying area and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sides. Sump capacity should also provided adequate retention period to allow proper settling of silt material.</p>	<p>Condition duly complied.</p> <p>Garland drains have been constructed in the mine premises near Coal Stock Yard. The Size of Garland drain are as follow: Length -150.0 m , Width - 0.80 m &amp; Depth - 0.60 m</p> <p>Regular cleaning of the garland drain has been carried out with departmental resources on a quarterly basis. Total 15 Man shifts have been consumed in the cleaning of Garland drain during October 2022 to March 2023</p> <p>An Estimate of Rs. 32 Lakhs for Strengthening of garland drain &amp; siltation pond network is under approval stage (Ref: WCL/PKD/PCD/2022-23/Est./246 dated 23/03/2023 &amp; E – Office File No. 1093295). The above job is likely to be completed by 30/04/2024.</p>	<p>During the site visit, it was observed that garland drains have been constructed around safety areas such as mines shaft and coal handling plant. The drains are found in the maintained conditions.</p> <p>As per the records made available by the Project Proponent during the Site visit, an Estimate of Rs. 32 Lakhs for Strengthening of garland drain &amp; siltation pond network has been prepared &amp; presently under approval stage (Ref: WCL / PKD / PCD / 2022-23 / Est. / 246 dated 23/03/2023 &amp; E – Office File No. 1093295). The PP stated that the above work is likely to be completed by 30/04/2024.</p> <p><b>In view of the information furnished by the Project Proponent and as per the site visit observations noted above, the stipulated condition is considered as Compliance in Progress. A time targeted action plan</b></p>

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			<p>towards compliance of the stipulated condition shall be furnished to MOEFCC, RO Bhopal and the implementation of the same shall be reported to MOEFCC, RO Bhopal through six-monthly compliance reports.</p> <p><b>COMPLIANCE IN PROGRESS</b></p>
(v)	<p>Crushers at the CHP should be operated with high efficiency bag filters, water sprinkling system should be provided to check fugitive emissions from crushing operations, conveyor system, haulage road, transfer points, etc.</p>	<p>Condition complied.</p> <p>The existing CHP facility is only used for storage of coal coming out from underground belt conveyor. <b>There is No Coal Crushing arrangement available in the CHP of Tawa – II UG Mine.</b></p> <p>Water spraying arrangement is in operation at all transfer points along the conveyor system as well as in the bunker.</p> <p>To control the fugitive emission Sprinkler &amp; Rain guns have been installed along the coal stock Yard, near Internal Coal Transportation Road, Near Way bridge and Coal Bunker for dust suppression purpose.</p>	<p>During site visit, it was observed that the existing CHP facility is only used for storage of coal coming out from underground belt conveyor. There is no Coal Crushing arrangement available in the CHP of Tawa – II UG Mine.</p> <p>Water spraying arrangement is in operation at transfer points along the conveyor system as well as in the bunker.</p> <p>To control the fugitive emission, Sprinkler &amp; Rain guns have been installed along the coal stock Yard, near Internal Coal Transportation Road, Near Way bridge and Coal Bunker.</p> <p><b>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition may be considered as complied.</b></p>

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			<b>COMPLIED</b>
(vi)	Drills should be wet operated only.	<p>Condition complied. In Tawa-II UG expansion project, coal is being extracted with underground mining technology. Underground mining has low impact on environment in comparison to opencast coal mining. The drilling, blasting, removal of huge amount of overburden is not required in underground mines. The major sources of pollution are eliminated in underground mining.</p> <p>Hydraulically operated roof bolters are used water for flushing out the cuttings from the drill holes. This automatically suppresses the dust and also increases life of the drill rods and drill bits.</p>	<p>It is noted that coal is being extracted with underground mining technology in Tawa-II UG expansion project.</p> <p>Hydraulically operated roof bolters are used water for flushing out the cuttings from the drill holes. This automatically suppresses the dust and also increases life of the drill rods and drill bits.</p> <p><b>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition may be considered as complied.</b></p> <p><b>COMPLIED</b></p>
(vii)	Controlled blasting should be practiced with use of delay detonators. The Mitigative measures for control of ground vibration and to arrest the fly rocks and boulder should be implemented	<p>Complied.</p> <p>In Tawa-II UG expansion project, coal is being extracted with underground mining technology. Underground mining has low impact on environment in comparison to opencast coal mining. The drilling, blasting, removal of huge amount of overburden is not required in underground mines. The major sources of pollution are eliminated in underground mining.</p> <p>The underground mine is considered as sustainable method for coal extraction. It does not require making long term changes in the land due to excavation of overburden. As such, there is not any blasting over the surface. Entire operations are carried out below</p>	<p>It is noted that coal is being extracted with underground mining technology in Tawa-II UG expansion project. The drilling, blasting, removal of huge amount of overburden is not required in underground mines. Entire operations are carried out below ground.</p> <p>The land at surface is not disturbed except minor disturbances due to subsidence, which has been duly filled with suitable material.</p> <p><b>In view of the information furnished by the Project Proponent</b></p>

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		ground.  The land at surface is not disturbed except minor disturbances due to subsidence, which has been duly filled with suitable material.	and as per the site observations noted above, the stipulated condition may be considered as complied.  <b>COMPLIED</b>
(viii)	A progressive Afforestation plan shall be prepared and implemented for the undisturbed area. Area under green belt development, areas along road, infrastructure, along M.L. boundary and township out side the lease areas etc. by planting native species in consultation with the local DFO/Agriculture department. The density of the trees should be around 2500 plants per hectare.	Condition duly complied. Plantation of 2200 No. of Plants have been carried out on vacant land near Pathakhera Township. The density of the trees has been maintained around 2500 plants per hectare. (i.e. 2200 trees planted in 8800 sq. meter land with spacing of 2 meter)  Plantation in UG Mine is carried out only over the all right area. All the infrastructure set up is there in the area only. In between the vacant space Plantation has already been done. In Pathakhera Area, Till date Total 2,36,910 No of trees have been planted in the available area of 94.76 Ha. For the period between 1995-96 to 2022-23. There is no vacant space available for further plantation.	During site visit, it was noted that Plantation of 2200 No. of Plants have been carried out on vacant land near Pathakhera Township.  The above plantation includes native species like, Gul Mohar, Neem, Bargad, Karanj, etc.  Plantation in vacant space has already been done at the Mine area.  In Pathakhera Area, till date Total 2,36,910 No of trees have been planted in the available area of 94.76 Ha. For the period between 1995-96 to 2022-23.  In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied.  <b>COMPLIED</b>
(ix)	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and construction of new	Condition duly complied. Quarterly monitoring of ground water levels and annually ground water quality is being monitored through network of existing wells. All the parameters are well within permissible limit. Monitoring	As per the records made available by the Project Proponent during the Site visit, it is noted that quarterly monitoring of ground water levels and annual

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	<p>piezometers. The monitoring for quantity should be done four times a year in pre-monsoon (May) Monsoon (August), Post monsoon (November) and Winter(January) season and for quality in May. Data thus collected should be submitted to the MOEF and to the Central Pollution Control Board quarterly within one month of monitoring.</p>	<p>report is being regularly submitted to CGWB on annual basis &amp; to MOEFCC, IRO Bhopal on a six-monthly basis through six-monthly compliance reports. The well monitoring shows no depletion in ground water level.</p>	<p>monitoring of ground water quality has been carried out through a network of existing wells. Perusal of the test reports reveal that all the monitored parameters are well within the permissible limit. Monitoring reports are being regularly submitted to CGWB on annual basis and to MOEFCC, RO Bhopal on a six-monthly basis through six-monthly EC compliance reports.</p> <p><b>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied.</b></p> <p><b>COMPLIED</b></p>
(x)	<p>The company shall put up artificial ground water recharge measure for augmentation of ground water resource. The project authority should meet water requirement of nearby village(s). In case the village well go dry due to dewatering of mines.</p>	<p>Complied.</p> <p>To minimize the impact mining on ground water system, Rain water harvesting System has been constructed at Rescue room premises, Bagdona Colony.</p> <p>In addition to that, Total 06 Nos of Hand Pump have been constructed in nearby villages by WCL to meet their water requirement.</p> <p>In Addition to that, A Tender for construction of Rain Water Harvesting System in Tawa UG, Tawa – II UG &amp; Chhatarpur – I UG has been finalized worth Rs.24,98,596.90/- (Ref.: WCL / PKD / Civil / 2022-23 / Est / 215 dated 11/02/2023 e –Office File No. :</p>	<p>During site visit, it was observed that Rain water harvesting System has been constructed at Rescue room premises, Bagdona Colony. However, no rainwater harvesting structures were installed within the mine lease area. In addition to this, total 06 Nos of Hand Pumps have been constructed in nearby villages by WCL to meet their water requirement.</p> <p>As per the records made available by the Project Proponent during the Site visit, the tender for</p>

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		1014660 ) The above job is likely to be completed by 28/02/2024.	<p>construction of Rain Water Harvesting System in Tawa UG, Tawa – II UG &amp; Chhatarpur – I UG has been finalized.</p> <p>In view of the information furnished by the Project Proponent and as per the site visit observations, the stipulated condition is considered as Compliance in Progress. A time targeted action plan towards compliance of the stipulated condition shall be furnished to MOEFCC, RO Bhopal and the implementation of the same shall be reported to MOEFCC, RO Bhopal through six-monthly compliance reports.</p> <p><b>COMPLIANCE IN PROGRESS</b></p>
(xi)	Sewage treatment plants should be installed in the existing colony. ETP should also be provided for work shop and CHP waste water.	<p>Condition complied. This is an operating Underground mine, no HEMM has been used in this mine hence No effluent has been generated in Unit Workshop. As only a small engineering workshop is present at mine to cater the day to day minor repairing kind of engineering services.</p> <p>Pathakhera Area is having common colony infrastructure for all Mines of Area.</p> <p>Each residential unit is provided with septic tank &amp; soak pit arrangement to deal with domestic effluent, The sizes of the same varies from 25 users to 250 users. This is 02 stage Sewage treatment as per IS 2470 part I&amp;II -</p>	<p>As per the records made available by the Project Proponent during the Site visit, it was noted that there is only a small engineering workshop at mine to cater to the day to day minor repairing kind of engineering services and no HEMM has been used in this mine hence, no effluent has been generated in workshop.</p> <p>Pathakhera Area is having common colony infrastructure for all Mines of the Area.</p> <p>Each residential unit is provided with septic tank &amp;</p>

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		<p>1985.</p> <p>The preliminary treatment is being given through septic tank and The secondary treatment is being given through soil absorption system. Hence, this is the standard practice and we are following the system. The arrangement does not allow any sewage to get mixed into any natural water course without treatment.</p> <p><b>In Addition to that, An MoU has been signed between WCL &amp; Sarni Nagar Palika to establish an In Situ Nallah Sewage Treatment System for 100 % treatment of Sewage of Pathakhera Township. Subsequently, the Work has been awarded to CSIR NEERI, Nagpur for preparation of feasibility Report &amp; Draft Project Report of an In Situ Nallah Sewage Treatment System. The Feasibility Report has been prepared by CSIR-NEERI &amp; Presently DPR Preparation is under Pipeline.</b></p>	<p>soak pit arrangement to deal with domestic effluent.</p> <p>It is informed that an MoU has been signed between WCL &amp; Sarni Nagar Palika to establish an In Situ Nallah Sewage Treatment System for 100 % treatment of Sewage of Pathakhera Township. Subsequently, the Work has been awarded to CSIR NEERI, Nagpur for preparation of feasibility Report &amp; Draft Project Report of an In Situ Nallah Sewage Treatment System.</p> <p>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as compliance in progress. A time targeted action plan towards compliance of the stipulated condition shall be furnished to MOEFCC, RO Bhopal and the implementation of the same shall be reported through six-monthly compliance reports.</p> <p><b>COMPLIANCE IN PROGRESS</b></p>
(xii)	Besides carrying out regular periodic health check-up of their workers, 10% of the workers identified from	Total 736 workers are employed in Tawa – II UG mine and periodic medical Examination (PME) of all employees are being carried once in every 5 years as per the DGMS guidelines and records	During the site visit, it was observed that personnel working in dust areas have been provided with dust masks and ear plugs.

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<p>work force engaged in active mining operation shall be subjected to health check up for occupational diseases and hearing impairment, if any through an agency such as NIOH, Ahmedabad within a period of 1 year and the result reported to this ministry and to DGMS</p>	<p>are maintained and submitted to DGMS. During PME the patient are subjected to a complete clinical examination (including vision and hearing) Radiological examination of chest and routine examination of blood and urine. In case of any abnormality is detected during the course of above examination, further investigation is carried out and treatment given as required. WCL has got a team of specialist trained in coal miners pneumoconiosis to take care of the disease and subsequent treatment. WCL is having occupational Health Committee at the corporate level as well as at the unit level for regular health status monitoring of all employees.</p> <p>No person has been detected with coal miners pneumoconiosis during the last 5 years.</p> <p>In Pathakhera Area, A 60 bedded hospital with 11 doctors and 46 paramedical staff are being provided exclusively to cater the round the clock Medical Services to WCL Employees.</p> <p>In addition to that, Medical Examination of 10.69 % Man power of Tawa – II UG Mine has been carried out through Government District Hospital, Betul. The above Medical Examination include Physical Examinations, Skin &amp; Eye Examination, Ears Inspection, Respiratory System Examination, Genito-Urinary system examination, ECG, BP, R&amp;S &amp; Audiological Evaluation, etc.</p>	<p>Vocational training is being accorded to all mine workers (both department and contractual staff) on an annual basis.</p> <p>Every departmental worker less than 50 year is subjected to periodical medical examination once in every three years and Above 50 Year worker is subjected to periodical medical examination once in every year. The records are being maintained and submitted to DGMS on yearly basis in prescribed format.</p> <p>Besides, contractual employees are subjected to Initial medical examination at the time of deployment and periodical medical examination through the contractor.</p> <p>A separate PME Department in Hospital has been in existence to regularly monitor the Occupational Health related issues of Mine Workers.</p> <p>It was informed that Medical Examination of 10.69 % Man power of Tawa – II UG Mine has been carried out through Government District Hospital, Betul.</p> <p>However, no study was initiated to monitor the health status of 10% of the workers identified from work force engaged in active</p>
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			<p>mining operation for occupational diseases and hearing impairment through an institute of repute.</p> <p>In view of the information furnished by the Project Proponent and as per the site visit observations noted above, the stipulated condition is considered as partly complied w.r.t. said site visit.</p> <p><b>PARTLY COMPLIED</b></p>
(xiii)	Digital processing of the entire lease area using remote sensing technique should be done regularly once in 3 year for monitoring land used pattern and report submitted to MOEF and its Regional office at Bhopal.	Condition complied. Digital processing of the entire lease area using remote sensing technique has been carried out through CMPDIL. <u>Latest Report of March 2021 has been uploaded on Parivesh Portal along with Half yearly EC Compliance report.</u>	<p>As per the records made available by the Project Proponent, it is noted that Digital processing of the entire lease area using remote sensing technique has been carried out through CMPDIL. Latest Report of March 2021 has been uploaded on Parivesh Portal along with Half yearly EC Compliance report.</p> <p>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied.</p> <p><b>COMPLIED</b></p>
(xiv)	A final Mine Closure plan along with details of Corps Fund should be submitted to the MOEF, 5 year in advance of final mine closure for	Condition Duly complied, A final Mine Closure plan along with details of Corps Fund have been sent to MOEF&CC vide letter no : WCL/PKD/TAWA – II / 2021 /880 Dated 17/06/2021	As per the records made available by the Project Proponent during the Site visit, a Mine Closure Plan along with details of Corps Fund have been sent to MOEF&CC vide letter no :

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	approval.		<p>WCL/PKD/TAWA – II / 2021 /880 Dated 17/06/2021</p> <p>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied.</p> <p><b>COMPLIED</b></p>
(xv)	Consent to operate shall be obtained before starting mining operation.	Complied. Consent to operate has been obtained since starting of Mining Operations and The mine has an existing valid consent to operate issued vide Consent No: AW- 56505 dated 19/08/2022, Valid upto : 31/08/2025	<p>As per the records made available by the Project Proponent during the Site visit, Consent to operate has been obtained since starting of Mining Operations and the mine has an existing valid consent to operate issued vide Consent No: AW- 56505 dated 19/08/2022, Valid upto : 31/08/2025</p> <p>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied.</p> <p><b>COMPLIED</b></p>
<b>B.</b>	<b>General Conditions</b>		
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environmental and Forests.	Condition complied. No change in mining technology and scope of work has been made.	<p>During site visit, it was observed that no change in mining technology and scope of work has been made by PP.</p> <p>In view of the information furnished by the Project Proponent</p>

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			<p>and as per the site observations noted above, the stipulated condition is considered as complied.</p> <p><b>COMPLIED</b></p>
(ii)	No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.	Condition Complied. No change in production has been made beyond approved EC capacity of 0.60 MTPA since beginning of Mine.	<p>As per the records made available by the Project Proponent during the Site visit, no change in production has been made beyond approved EC capacity of 0.60 MTPA.</p> <p>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied.</p> <p><b>COMPLIED</b></p>
(iii)	Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for SPM, RPM, SO <sub>2</sub> and Nox monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board.	<p>Condition Complied. Four ambient air quality-monitoring stations have been established in the core zone as well as in buffer zone which have been decided based on the metrological data, topographical features and environmentally and ecologically sensitive targets.</p> <p>Location of air monitoring station are as below</p> <ol style="list-style-type: none"> <li>1. Manager Officer Tawa-II U/G</li> <li>2. SAM Office</li> <li>3. MPEB Colony</li> <li>4. Hirapalla / Bhagaikhapa Village.</li> </ol>	<p>It is noted that four ambient air quality-monitoring stations have been established in the core zone as well as in buffer zone.</p> <p>Perusal of the test reports reveal that all the monitored parameters are well within the stipulated standards.</p> <p>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied.</p>

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			<b>COMPLIED</b>
(iv)	Data on ambient air quality (SPM, RPM, SO <sub>2</sub> and Nox) should be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board and the Central Pollution Control Board once in six months.	Condition Complied. Data on ambient air quality (SPM, RPM, SO <sub>2</sub> and Nox) are being monitored and regularly submitted to the MPPCB, CPCB & MOEF, Bhopal on regular basis through mail & also uploaded in Parivesh Portal along with Six monthly EC Compliance Reports.	Data on ambient air quality (SPM, RPM, SO <sub>2</sub> and Nox) are being monitored and regularly submitted to the MPPCB, CPCB & MOEF, Bhopal on regular basis through mail & also uploaded in Parivesh Portal along with Six monthly EC Compliance Reports. The PP furnished the reports during the visit.  <b>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied.</b>  <b>COMPLIED</b>
(v)	Fugitive dust emissions from all the source should be controlled, regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading and unloading) points should be provided and properly maintained.	Condition complied. This is an underground mine. All the mining activities i.e. Drilling, Blasting, Loading, unloading, transportation of coal from district to surface has been carried out in the closed condition w.r.t. an open cast mine where all the activities are being carried out in exposed circumstances. Along with that, Following air Pollution control mechanism has been introduced:  <ol style="list-style-type: none"> <li>1. Spray points have been provided in conveyor belt to prevent emission due to transportation.</li> <li>2. Tawa - II UG mine does not contain CHP / Coal Crushing facility.</li> <li>3. All the internal roads have been black topped and regularly maintained to prevent fugitive emission.</li> <li>4. Sprinkler &amp; Rain guns have been installed along the coal</li> </ol>	As per the records made available by the Project Proponent during the Site visit, following air Pollution control mechanism has been observed:  <ol style="list-style-type: none"> <li>1. Spray points have been provided in conveyor belt to prevent emission due to transportation.</li> <li>2. Tawa - II UG mine does not contain CHP / Coal Crushing facility.</li> <li>3. All the internal roads have been black topped and regularly maintained to prevent fugitive emission.</li> <li>4. Sprinkler &amp; Rain guns have been installed along the coal stock Yard, near Internal Coal Transportation Road, Near Way bridge and Coal</li> </ol>

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		<p>stock Yard, near Internal Coal Transportation Road, Near Way bridge and Coal Bunker for dust suppression purpose.</p> <p>5. Mine is located in a dense forest which is an effective means of Wind barrier.</p> <p>In addition to that, Fugitive emission data is being collected on fortnightly basis through CMPDIL Environment Lab Team.</p>	<p>Bunker for dust suppression purpose.</p> <p>Fugitive emission monitoring is being undertaken through CMPDIL. The reports were furnished during the visit. Perusal of the test reports reveal that the monitored parameters are well within the stipulated standards.</p> <p><b>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied.</b></p> <p><b>COMPLIED</b></p>
(vi)	<p>Adequate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc. should be provided with ear plugs/muffs.</p>	<p>Condition Complied.</p> <ul style="list-style-type: none"> <li>• Ear muffs are being provided to workers working in under ground mining operations.</li> <li>• Noise monitoring reports as monitored by NABL accredited laboratory i.e., CMPDIL were furnished during the site visit and the noise levels are noted to be well within the stipulated limits.</li> <li>• Monitoring of Noise levels are being carried out by CMPDIL on fortnightly basis and the results are within the permissible limit. <u>(Copy of the Noise level Monitoring report enclosed)</u></li> </ul>	<p>Following observations were made during the site visit:</p> <ul style="list-style-type: none"> <li>• Ear muffs are being provided to workers working in under ground mining operations.</li> <li>• Noise monitoring reports as monitored by NABL accredited laboratory i.e., CMPDIL were furnished during the site visit and the noise levels are noted to be well within the stipulated limits.</li> </ul> <p><b>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied.</b></p>

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			<b>COMPLIED</b>
(vii)	<p>Industrial wastewater (workshop and wastewater from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19<sup>th</sup> May 1993 and 31<sup>st</sup> December 1993 or as amended from time to time before discharge. Oil and grease trap should be installed before discharge of workshop effluents.</p>	<p>Condition Complied. There is a small unit workshop meeting day to day needs of drills bit sharpening and minor repairs of small drill machines etc. as such there is no effluents or any other kind of liquid waste discharged from workshop. The wastewater generated during the mining operations is being initially accumulated in the mine sump, which acts primary settling pond. The water from the underground mine sump is again being subjected to settling in the sedimentation tank constructed at the surface.</p> <p>An area level central workshop is functional outside the mine lease area, Where small fabrication works like Roof bolt Production, Coal tub production have been carried out and no effluent has been generated from the Area workshop.</p>	<p>During site visit, it was observed that the wastewater generated during the mining operations is being initially accumulated in the mine sump, which acts primary settling pond. The water from the mine sump is again being subjected to settling in the sedimentation tank constructed at the surface. Test reports related to treated mined out water as monitored by CMPDIL on a fortnightly basis was furnished and perusal of the test reports reveal that the monitoring parameters are well within the stipulated standards.</p> <p>An area level central workshop is functional outside the mine lease area, where small fabrication works like roof bolt production, coal tub production is being carried out and no effluent is seen generated from the Area workshop. However, small quantity of Oil &amp; grease generated/ used in the process is restricted within the workshop area.</p> <p><b>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated</b></p>

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			<p>condition is considered as complied.</p> <p><b>COMPLIED</b></p>
(viii)	<p>Vehicular emissions should be kept under control and regularly monitored. Vehicles used for transporting the mineral should be covered with tarpaulins and optimally loaded.</p>	<p>Condition Complied. Vehicle used for transportation are being covered with tarpaulins and optimally loaded. PUC has been checked for each vehicle and records have been maintained.</p>	<p>During the Site visit, it is noted that PUC is being checked for vehicles and records have been maintained. Vehicle used for transportation are being covered with tarpaulins and optimally loaded.</p> <p><b>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied.</b></p> <p><b>COMPLIED</b></p>
(ix)	<p>Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.</p>	<p>Condition Complied. A Full fledged NABL approved Environmental laboratory of CMPDIL working at Jaripatka, Nagpur with qualified muff-disciplinary team of engineers along with adequate no. of field staff for carrying out all the Routine environmental monitoring of all WCL projects including this project &amp; Air, Water and Noise Quality Monitoring is being carried out at every fortnight interval.</p> <p>In Addition to that, As per the direction and consultation of MPPCB, One Continuous Ambient Air Quality Monitoring Station has been established in the Premises of Area General Manager Office, WCL Pathakhera Area for monitoring of Ambient Air Quality in a continuous manner.</p>	<p>It is noted that Air, Water and Noise Quality Monitoring is being carried out by NABL approved Environmental laboratory of CMPDIL working at Jaripatka, Nagpur. No environmental laboratory is set-up at the project level.</p> <p><b>In view of the information furnished and as per the site observations noted above, the stipulated condition is considered as complied w.r.t. said site visit. Project proponent shall ensure to set-up a environmental laboratory at the project level for monitoring of atleast basic parameters of ETP as well as ambient air</b></p>

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			quality. <b>COMPLIED</b>
(x)	<p>Personal working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.</p> <p>Occupational health surveillance programme of the workers should be undertaken periodically to observe any contraction due to exposure to dust and to take corrective measures, if needed.</p>	<p>Condition Complied. Protective respiratory devices have been provided to Persons working in dusty areas and they have been provided with adequate training and information on safety and health aspects by the Designated Medical Expert Faculty in the Group Vocational Training Centre of Pathakhera Area along with other safety related training as per VT Rules.</p> <p>Periodic medical Examination (PME) of all employees are being carried once in every 5 years as per the DGMS guidelines and records are maintained and submitted to DGMS. During PME the patient are subjected to a complete clinical examination (including vision and hearing) Radiological examination of chest and routine examination of blood and urine. In case of any abnormality is detected during the course of above examination, further investigation is carried out and treatment given as required. WCL has got a team of specialist trained in coal miners pneumoconiosis to take care of the disease and subsequent treatment. WCL is having occupational Health Committee at the corporate level as well as at the unit level for regular health status monitoring of all employees.</p> <p>No person has been detected with coal miners pneumoconiosis during the last 5 years.</p> <p>In Pathakhera Area, A 60 bedded hospital with 11 doctors and 46 paramedical staff are being provided exclusively to cater the round the clock</p>	<p>During the site visit, it was observed that personnel working in dust areas have been provided with dust masks and ear plugs. As per records furnished during the site visit, it was noted that vocational training is being accorded to all mine workers (both department and contractual staff) on an annual basis.</p> <p>As per records furnished during the site visit, it was noted that every departmental worker less than 50 year is subjected to periodical medical examination once in every three years and Above 50 Year worker is subjected to periodical medical examination once in every year. The records are being maintained and submitted to DGMS on yearly basis in prescribed format.</p> <p>Contractual employees are subjected to Initial medical examination at the time of deployment and periodical medical examination through the contractor.</p> <p><b>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered</b></p>

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		<p>Medical Services to WCL Employees.</p> <p>In addition to that, Medical Examination of 10.69 % Man power of Tawa – II UG Mine has been carried out through Government District Hospital, Betul. The above Medical Examination include Physical Examinations, Skin &amp; Eye Examination, Ears Inspection, Respiratory System Examination, Genito-Urinary system examination, ECG, BP, R&amp;S &amp; Audiological Evaluation, etc.</p>	<p><b>as complied.</b></p> <p><b>COMPLIED</b></p>
(xi)	<p>A separate Environmental management cell with suitable qualified personnel should be set up under the control of a Senior Executive, who will report directly to the Head of the company.</p>	<p>Condition Complied.</p> <p>a) At Area Level: Area General Manager of the Area coordinate the environmental activities of various units in the area in implementing all necessary provisions as per act assisted by Area Environment Officer at Area level for generation of environmental data and management of all aspect of environment along with the team of Engineers of CMPDIL for collection, analysis and interpretation of samples.</p> <p>b) At Project level : At project level Sub Area Manager and Manager primarily responsible for land resource management assisted by Project Environment Officer and other staff for Env. Pollution mitigation measures, environment monitoring and field activities like subsidence measurements, dust suppression, etc.</p>	<p>During the site visit, it was observed that a separate Environmental management cell exists at Mine Level, Area Level and at Corporate HQ Level.</p> <p>At Area Level: Chief General Manager of the Area coordinate the environmental activities of various units in the assisted by Area Environment Officer at Area level &amp; At project level Sub Area Manager and Manager assisted by Project Environment Officer and other staff is allocated for Env. Pollution mitigation measures.</p> <p><b>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied.</b></p> <p><b>COMPLIED</b></p>

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(xii)	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the Ministry and its Regional Office at Bhopal.	Condition Complied.  The funds earmarked are used exclusively for Environment protection measures are kept separately in the form of Separate Environment Capital Budget & Environment Revenue Budget and not used for any other purpose. Expenditure under capital head and revenue head as maintained Properly and uploaded on Parivesh portal with every Half yearly EC Conditions Compliance Report.	As per the records made available by the Project Proponent during the Site visit, It is noted that the funds earmarked are used exclusively for Environment protection measures are kept separately in the form of Separate Environment Capital Budget & Environment Revenue Budget and not used for any other purpose. Expenditure under capital head and revenue head as maintained Properly and uploaded on Parivesh portal with every Half yearly EC Conditions Compliance Report.  <b>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied.</b>  <b>COMPLIED</b>
(xiii)	The Regional Office of the Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office (s) of the Regional Office by furnishing the requisite data / information /monitoring reports.	Full cooperation shall be extended by the project officials to the Regional Officials of MOEF&CC.	Full cooperation was extended by the project officials during the visit and required information was furnished.  <b>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied.</b>

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			<b>COMPLIED</b>
(xiv)	A copy of the clearance letter will be marked to concern Panchayat/local NGO, if any, from whom any suggestion / representation has been received while processing the proposal.	<p>Condition Complied.</p> <p>Copies of the Environment Clearance letter have been sent to PANCHAYAT SECY. OF NEARBY VILLAGES (i.e. BHOGAIKHAPA, SHAKTIGARH &amp; SHOBHAPUR VILLAGE) vide letter No. PKD/TAWA - II/2021/ 854 dt. 15/06/2021.</p> <p>In the similar manner, A copy of the Environment Clearance letter has been sent to Gram Bharti mahila Mandal (NGO) vide letter No. PKD/TAWA - II/2021/ 855 dt. 15/06/2021.</p> <p>A copy of the Environment clearance letter marked to concern Panchayats / local NGO enclosed.</p>	<p>As per the records made available by the Project Proponent, it is noted that copies of the Environment Clearance letter have been sent to Panchayat secy. of nearby villages vide letter No. PKD/TAWA - II/2021/ 854 dt. 15/06/2021.</p> <p>A copy of the Environment Clearance letter has been sent to Gram Bharti mahila Mandal (NGO) vide letter No. PKD/TAWA - II/2021/ 855 dt. 15/06/2021.</p> <p>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied.</p> <p><b>COMPLIED</b></p>
(xv)	State Pollution Control Board should be display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/ Tahsildar's Office for 30 days.	This Condition is pertaining to MPPCB	<p>This Condition is pertaining to MPPCB</p> <p><b>COMPLIANCE PERTAINS TO MPPCB</b></p>
(xvi)	The project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality	<p>Condition Complied.</p> <p>In 2006, on receipt of EC copy, We have given the advertisement in the following newspapers:</p> <p>1. NAV BHARAT (NAGPUR EDITION) IN HINDI LANGUAGE ON</p>	<p>As per the records made available by the Project Proponent during the Site visit, It is noted that in 2006, on receipt of EC copy, PP has given the advertisement in the following newspapers:</p>

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	<p>concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and the copy of the clearance letter is available is available with state pollution control board and may also be seen at the website of the Ministry of Environment &amp; Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a></p>	<p>23.02.2007</p> <ol style="list-style-type: none"> <li>2. DAINIK JAGARAN (BHOPAL EDDITION) IN HINDI LANGUAGE ON 23.02.2007</li> <li>3. LOKMAT SAMACHAR IN HINDI LANGUAGE ON 19/09/2006</li> <li>4. DAINIK MAT MATANTAR IN HINDI LANGUAGE ON 06/10/2006</li> </ol> <p>In 2021, on receipt of Revalidated EC copy, We have given the advertisement in the following newspapers:</p> <ol style="list-style-type: none"> <li>1. NAV BHARAT (BHOPAL EDDITION) IN HINDI LANGUAGE ON 21.01.2021</li> <li>2. RAJ EXPRESS – (BETUL EDDITION) IN ENGLISH LANGUAGE ON 21.01.2021</li> </ol> <p><b>(Copies of advertisements attached)</b></p>	<ol style="list-style-type: none"> <li>1. NAV BHARAT (NAGPUR EDDITION) IN HINDI LANGUAGE ON 23.02.2007</li> <li>2. DAINIK JAGARAN (BHOPAL EDDITION) IN HINDI LANGUAGE ON 23.02.2007</li> <li>3. LOKMAT SAMACHAR IN HINDI LANGUAGE ON 19/09/2006</li> <li>4. DAINIK MAT MATANTAR IN HINDI LANGUAGE ON 06/10/2006</li> </ol> <p>In 2021, on receipt of Revalidated EC copy, PP has given the advertisement in the following newspapers:</p> <ol style="list-style-type: none"> <li>1. NAV BHARAT (BHOPAL EDDITION) IN HINDI LANGUAGE ON 21.01.2021</li> <li>2. RAJ EXPRESS – (BETUL EDDITION) IN ENGLISH LANGUAGE ON 21.01.2021</li> </ol> <p><b>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied.</b></p> <p><b>COMPLIED</b></p>
3.	<p>The ministry or any other competent authority may stipulate any further condition for Environmental</p>	<p>The project agrees to the condition.</p>	<p>It is a general condition and Project proponent agreed to comply with the contents of the said stipulations.</p> <p><b>In view of the submission by</b></p>

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	protection.		<p>the PP, the stipulated condition is considered as Agreed to comply.</p> <p><b>AGREED TO COMPLY</b></p>
4.	<p>Failure to comply with any of the condition mentioned above may result in with drawl of this clearance and attract the provisions of the environmental protection Act 1986</p>	The project agrees to the condition.	<p>It is a general condition and Project proponent agreed to comply with the contents of the said stipulations.</p> <p><b>In view of the submission by the PP, the stipulated condition is considered as Agreed to comply.</b></p> <p><b>AGREED TO COMPLY</b></p>
5.	<p>The above conditions will be enforced inter allia under the provision of the water (Prevention and control of pollution ) Act 1974 and Air ( Prevention and control of pollution ) Act 1981 the environmental ( Protection ) Act 1986 and the public Liability insurance Act 1991 along with their amendment and rules.</p>	The project agrees to the condition.	<p>It is a general condition and Project proponent agreed to comply with the contents of the said stipulations.</p> <p><b>In view of the submission by the PP, the stipulated condition is considered as Agreed to comply.</b></p> <p><b>AGREED TO COMPLY</b></p>

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**2. Details of project:** Tawa-II UG Expansion Coal Mine Project (0.600 MTPA) of M/s. Western Coalfields Limited., Dist. Betul, Madhya Pradesh with a Project Area of 520.00 Ha)

EC letter no. J-11015/53/2006-IA-II(M) Dated:- 15th January, 2021

Sr. No.	EC Condition	Status of Compliance as submitted by the PP	Remarks of MoEF&CC, Regional Office based on the compliance status furnished by the Project Proponent and the on-field observations of the site visit
<b>ADDITIONAL CONDITIONS</b>			
(i)	PP shall obtain prior permission of Central Ground Water Authority for extraction or intersecting of ground water.	Condition complied. Mine Management has already obtained No Objection Certificate (NOC) for Ground Water Abstraction from Central Ground Water Authority for vide NOC No: CGWA/NOC/MIN/ORIG/2021/14068 dated 17/12/2021 valid up to 16/12/2023  (CGWA NOC copy enclosed)	As per the records made available by the Project Proponent during the Site visit, It is noted that Mine Management has already obtained No Objection Certificate (NOC) for Ground Water Abstraction from Central Ground Water Authority for vide NOC No: CGWA/NOC/MIN/ORIG/2021/14068 dated 17/12/2021 valid up to 16/12/2023  In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied.  <b>COMPLIED</b>
(ii)	Transportation of coal shall be done only on concrete road instead of kuchcha road - Bogaikhapa (presently being done). Concrete road shall be built within six months and compliance shall be submitted to Ministry's	Condition duly complied. Transportation of coal is being done only on concrete road.  Black topped metalled road provided and maintained for transportation of coal: 1. Main gate to Tawa junction= 5.5 km 2. Mine gate to bunker to Way bridge = 220 meter  Since the mining activities	As per the records made available by the Project Proponent during the Site visit, it was observed that Black topped metalled road have been provided and maintained for transportation of coal. It was also seen that, Construction of Cement concrete road of length 400 m has been

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	Regional Office.	<p>including coal transportation are far away located from the Bhogaikhapa Village.</p> <p>Construction of Cement concrete road of length 400 m has been completed at Bhogaikhapa village. (Work Completion Certificate and Photographs of RCC road enclosed)</p>	<p>completed at Bhogaikhapa village at an expenditure of 12.30 lakhs.</p> <p>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied.</p> <p><b>COMPLIED</b></p>
(iii)	PP shall be use only High axle trucks of 40-50 tonne capacity for transportation of coal.	<p><b>Condition Complied.</b></p> <p>MPPGCL, Sarni is carry out the job of Coal transportation from Mine to STPS Sarni. Hence, We have formally communicated and informed the officials of MPPGCL, Sarni regarding the compliance of above condition and for deployment of High axle trucks of 40-50 tonne capacity for transportation of coal through letter no : PK/SA/TAWA – II / 950 dated 20/06/2021. (Copy of Letter to MPPGCL , Sarni reg. deployment of high axial trucks enclosed)</p> <p>Accordingly, Coal transportation is being done by high axle trucks of 40 tonne and above.</p>	<p>As per the records made available by the Project Proponent during the Site visit, it is observed that coal transportation is being done through high axle trucks of 40 tonne and above by MPPGCL Sarni.</p> <p>In view of the information furnished by the Project Proponent and as per the site observations noted above, the stipulated condition is considered as complied w.r.t. the said site visit.</p> <p><b>COMPLIED</b></p>

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**Summary note:**

**i. Implementation of conditions: -**

1. **EC letter no. J-11015/53/2006-IA.II(M) Dated:- 2nd August, 2006:** Out of total 34 conditions, it may be seen that 26 are complied, 3 are compliance in progress, 3 are agreed to comply, 1 is partly complied and 1 compliance pertain to MPPCB.

2. **EC letter no. J-11015/53/2006-IA-II(M) Dated:- 15th January, 2021 (Revalidation of Environment Clearance):** Out of total 3 conditions, it may be seen that 3 are complied.

These have been explained in the foregoing compliance report against each of the conditions, and the PP needs to take necessary and time bound action for early compliance in respect of the relevant conditions. An action taken report w.r.t. non-compliances shall be furnished to MOEFCC, RO Bhopal within 30 days of receipt of the said letter.

**ii. Status of Public Hearing:** Point-wise action plan for Public Hearing Commitments dated 25.08.2022 is made available by the project proponent & is enclosed herewith at Annexure-A.

**iii. Court cases and show cause/closure notices:**

The PP vide letter dated 09.08.2023 stated that there is no court case against the project. Further, the PP stated that there is no show cause/closure notice issued by MoEF&CC/CPCB/MPPCB during last 3 years.

-Sd-  
(Vishwa Bandhu Meena)  
Scientist-D

## आपत्ति निराकरण प्रतिवेदन (Statement of Issues)

डब्ल्यू.सी.एल. पाथाखेरा क्षेत्र द्वारा ग्राम **हिरापल्ली**, तहसील घोड़ाडोंगरी, जिला बैतूलके अन्तर्गत तवा-2 विस्तारित भूमिगत कोयला खान परियोजना (उत्पादन क्षमता विस्तारीकरण 0.60 मिलियन टन प्रतिवर्ष से 0.86 मिलियन टन प्रतिवर्ष एवं क्षेत्रफल 520.00 हेक्टेयर से 523.75 हेक्टेयर (520 हेक्टेयर खनन क्षेत्र + 3.75 हेक्टेयर पावर लाइन हेतु)) पर्यावरण स्वीकृति के लिए दिनांक 25.08.2022 को गुरुवार के दिन उपक्षेत्रीय प्रबंधक कार्यालय, तवा-2 भूमिगत खदान कार्यालय, ग्राम हिरापल्ली, तहसील-घोड़ाडोंगरी, जिला-बैतूल में आयोजित लोक सुनवाई के दौरान आम जनता से प्राप्त आपत्तियों/मुद्दों का निराकरण प्रतिवेदन।

क्र.	जनसामान्य द्वारा प्रस्तुत आपत्ति / सुझाव / टीका-टिप्पणी / अभिमत इत्यादि का विवरण	निराकरण के प्रस्ताव	बजट का प्रावधान	समय सीमा
1.	श्री वसुल आनन्द (निवासी - शक्तिगढ़) ने कहा कि शक्तिगढ़ में पानी की समस्या है तथा यहाँ कोई शौचालय नहीं बनाया गया है।	इस आवश्यकता को नोट कर लिया गया है। परियोजना प्रबंधन की तरफसे उपरोक्त विषय पर पूर्व में किसी प्रकार की कोई commitment नहीं की थी। यदि ग्राम सभा फरवरी 2023 के पहले इस पिकास कार्य का प्रस्ताव देती है , तो ग्राम पंचायत से प्राप्त प्रस्ताव के अनुसार इस Area CSR Committee के समक्ष रखा जाएगा, यदि वो सी एस आर पॉलिसी के अंतर्गत किए जा सकते हैं, तो उन्हें अगले वित्तीय वर्ष 2023-24 के सी एस आर एक्शन प्लान में सम्मिलित करने हेतु उचित कारवाई कि जाएगी।	सी एस आर एक्शन प्लान 2023-24 (यदि ग्रामसभा फरवरी 2023 तक इरा पिकास कार्य का प्रस्ताव देती है उस स्थितिमें)	31/03/2024 (यदि ग्रामसभा फरवरी 2023 तक इरा विकारा कार्य का प्रस्ताव देती है उस स्थितिमें)
2.	श्री प्रहलाद यादव (निवासी - पाथाखेड़ा) ने कहा कि खदान की वजह से जल पर क्या प्रभाव पड़ेगा ?	<ul style="list-style-type: none"> <li>➤ जैसे कि पूर्व में बताया गया है, तवा-2 प्रोजेक्ट भूमिगत खदान है। भूमिगत खदान में ज्यादातर कार्य जैसे ड्रिलिंग, ब्लारिंटिंग एवं कोयले का लोडिंग भूमि के सतह के नीचे किए जाते हैं। और केवल कोयले का परिवहन ही सतह पर किया जाना है। अतः जल पर्यावरण पर कोई नकारात्मक प्रभाव नहीं होगा।</li> <li>➤ आधारभूत जल गुणवत्ता निगरानी (Baseline Monitoring Results) के सभी मापदंड, मानक सीमा के भीतर है। प्रस्तावित भूमिगत खदान से प्रदूषण की मात्रा मानक सीमा के भीतर रहेगी।</li> </ul>	आधारभूत पर्यावरण गुणवत्ता निगरानी का कार्य सफलता पूर्वक संपन्न किया जा चुका है। इसके अतिरिक्त CMPDIL द्वारा हर 15 दिन के अंतराल में पर्यावरण गुणवत्ता निगरानी का कार्य	यह कार्य वर्तमानमें किया जा रहा है।

क्र.	जनसामान्य द्वारा प्रस्तुत आपत्ति / सुझाव / टीका-टिप्पणी / अभिमत इत्यादि का विवरण	निराकरण के प्रस्ताव	बजट का प्रावधान	समय सीमा
		<ul style="list-style-type: none"> <li>➤ यह प्रस्ताव तकनीकी रूप से उन्नत मशीनों द्वारा कोयला उत्पादन क्षमता के विस्तारीकरण हेतु लाया जा रहा है। इसमें खदान की वर्किंग डेप्थ या कोयला सीम या भूगर्भीय रचना में कोई बदलाव नहीं होगा। अतः जल पर्यावरण पर कोई नकारात्मक प्रभाव नहीं होगा।</li> <li>➤ वर्तमान प्रणाली के अनुसार भविष्य में भी, खदान के पानी में मौजूद निलंबित कणों को खदान में स्थित भूमिगत सम्प की सहायता से सतह पर मौजूद अवरादन टैंक के द्वारा शुद्धिकरण किया जा रहा है। अतः जल पर्यावरण पर प्रभाव नगण्य रहेगा।</li> <li>➤ जहां तक भूमिगत जल का प्रश्न है तो, भूमिगत जल स्तर एवं उसकी गुणवत्ता रिपोर्ट के अध्ययन से यह देखा जा सकता है की, भूमिगत जलस्तर पर खनन का कोई प्रतिकूल प्रभाव नहीं देखा गया है।</li> </ul>	<p>नियमित रूपसे किया जाता है। और आगे भी जारी रहेगा।</p> <p>इसके अतिरिक्त, जल प्रदूषण रोकथाम हेतु विविध कार्य परियोजना प्रबंधन द्वारा विभागीय रूप से किया जा रहा है।</p>	
3.	श्री प्रमोद कुमार (निवासी - बगड़ोना) ने कहा कि यहां काम चलने से खदान कर्मियों की यदि तबियत खराब होने पर क्या कदम उठाए जाएंगे?	<ul style="list-style-type: none"> <li>➤ खदान के समस्त कामगार एवं उनके परिजनों को वेकोलि की तरफ से मुफ्त एवं गुणवत्ता युक्त चिकित्सा सेवाये मुहैया कराई जाती है।</li> <li>➤ खदानमें 24 घंटे एम्बुलेंस की व्यवस्था है। इसके अतिरिक्त वेकोलि, पाथाखेड़ा क्षेत्र में 07 डॉक्टर एवं 26 पैरामेडिकल स्टाफ एवं अध्ययन सुविधाओं से युक्त 60 बेड वाला क्षेत्रीय अस्पताल कार्यरत है।</li> <li>➤ इसके अतिरिक्त खदान के सभी कर्मियों का स्वास्थ्य निरीक्षण हर 5 साल में एक बार एवं 55 साल से ज्यादा आयु के कर्मियों के स्वास्थ्य की जांच हर 3 साल में एक बार होती है।</li> <li>➤ इसके अतिरिक्त खदान के सभी कर्मियों को उनकी फिटनेस के अनुसार कार्य आवंटित किए जाते हैं।</li> <li>➤ सभी कर्मियों को उनके कार्य के दौरान व्यक्तिगत सुरक्षा उपकरण दिए जाते हैं।</li> </ul>	यह कार्य परियोजना प्रबंधन द्वारा विभागीय रूप से किया जा रहा है और आगे भी जारी रहेगा।	यह कार्य वर्तमानमें किया जा रहा है।

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4.	श्री राजू डहेरिया (निवासी - शोभापुर) ने कहा कि खदान के अन्दर से निकलने वाली हवा से क्या प्रभाव पड़ेगा ?	<ul style="list-style-type: none"> <li>➤ तवा 2 प्रोजेक्ट भूमिगत खदान है। भूमिगत खदान में ज्यादातर कार्य जैसे ड्रिलिंग, ब्लारिस्टिंग एवं कोयले का लोडिंग भूमि के सतह के नीचे किए जाते हैं। एवं इससे खुली खदान की तुलना में वातावरण में बहुत ही कम मात्रा में वायु प्रदूषण होता है।</li> <li>➤ यह प्रस्ताव तकनीकी रूप से उन्नत मशीनों (कॉन्टिन्यूअस माइगर) द्वारा कोयला खनन के लिए प्रयुक्त है, इन्हें ड्रिलिंग एवं ब्लारिस्टिंग का उपयोग नहीं होता है, जिसकी वजह से धमाके से उत्पन्न होने वाली फ्यूम एवं वायु की समस्या भी स्थायी तौर पर हल हो गई है एवं सूक्ष्म धूल के कणों की मात्रा में भी भारी कमी आई है। इसके अतिरिक्त, इस मशीनमें अत्याधुनिक मिस्ट गन प्रणाली भी अस्तित्व में है, जोकि धूल के कणों को असरकारक तरीके से नियंत्रित करते हैं। आधारभूत वायु गुणवत्ता निगरानी (Baseline Monitoring Results) के सभी मापदंड, <b>मानक सीमा के भीतर</b> हैं।</li> <li>➤ इसके अतिरिक्त उपरोक्त जानकारी के आधार पर एयर मॉडलिंग की जाती है एवं वायु प्रदूषण के नियंत्रण हेतु पर्यावरण प्रबंधन योजना बनाई गई है। जिसके अनुसार उपरोक्त विस्तारीकरण से वायु गुणवत्ता पर नगण्य प्रभाव पड़ेगा।</li> <li>➤ इन्होंने वायु प्रदूषण होने की सम्भावना नहीं है। इन्होंने उपरोक्त पर्यावरण संरक्षण हेतु परियोजना प्रबंधन द्वारा निम्नलिखित उपाय किए जाएंगे। वायु प्रदूषण रोकथाम के उपाय:  <ol style="list-style-type: none"> <li>1. राइकों का डामरीकरण</li> <li>2. बेल्ट एवं बंकर के उपर फिक्स सिंक्लर द्वारा लगातार पानी का छिड़काव किया जाएगा।</li> <li>3. फोयला खान के लिए परिवेशी वायु गुणवत्ता की नियमित निगरानी की जाएगी।</li> </ol> </li> </ul>	यह कार्य परियोजना प्रबंधन द्वारा विभागीय रूप से किया जा रहा है। एवं आगे भी निरंतर रूपसे किया जाएगा।	यह कार्य वर्तमानमें किया जा रहा है।
5.	श्री नामदेव गोड़की (निवासी -शोभापुर) ने कहा कि मैं यह जानना चाहता हूँ कि इस हरे-भरे क्षेत्र में उत्पादन क्षमता	<ul style="list-style-type: none"> <li>➤ जैसे कि पूर्व में बताया गया है, तवा - II खदान से खानन का कार्य अविरत रूप से किया जा रहा है।</li> <li>➤ यह प्रस्ताव केवल तकनीकी रूप से उन्नत मशीनों द्वारा कोयला</li> </ul>	यह कार्य परियोजना प्रबंधन द्वारा विभागीय रूप से किया जा रहा है। एवं आगे	यह कार्य वर्तमानमें किया जा रहा है।

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	बढ़ाने पर हरियाली को वैसा ही बनाए रखने के लिए आप क्या उपाय करेंगे ?	<p>उत्पादन क्षमता के विस्तारीकरण हेतु लाया जा रहा है। उपरोक्त कन्टिन्यूअस माइनर मशीन कोयले को काट कर उसे भरने का कार्य करेगी जिसमें ड्रिलिंग एवं ब्लास्टिंग की आवश्यकत नहीं रहेगी। इसके अतिरिक्त भूमिगत खनन क्षेत्र में भी कोई बदलाव नहीं होगा। इसके अतिरिक्त कोयले का उत्पादन की प्रणाली में भी कोई बदलाव नहीं होगा। वर्तमानमें तवा - II भूमिगत खदान के ऊपर स्थित वनों में कोई बदलाव नहीं देखने को मिला है, एवं भविष्य में भी इन वनों पर कोई प्रतिकूल प्रभाव नहीं पड़ेगा। इसके अतिरिक्त उपरोक्त प्रस्तावित विस्तारीकरण हेतु कोई नए पेड़ नहीं काटे जाएंगे या सतह पर कोई भी नई अवसंरचना नहीं स्थापित की जाएगी।</p> <ul style="list-style-type: none"> <li>➤ भूमिगत खदान में ज्यादातर कार्य जैसे ड्रिलिंग, ब्लास्टिंग एवं कोयले का लोडिंग भूमि के सतह के नीचे किए जाते हैं। एवं इससे खुली खदान की तुलना में वातावरण में बहुत ही कम मात्रा में वायु प्रदूषण होता है।</li> <li>➤ इसके अतिरिक्त सन 1995-96 से 2021-22 तक, पाथाखेड़ा क्षेत्र में लगभग 84.70 हेक्टर क्षेत्र में लगभग 2,36,770 पेड़ लगाए गए हैं और 31.01.2022 तक कुल 8,300 पेड़ों का वितरण किया गया है।</li> <li>➤ तवा-II भूमिगत खदान क्षेत्र घने जंगलों के बीच स्थित है और इसलिए, वृक्षारोपण की बहुत कम गुंजाइश है।</li> <li>➤ वेकोलि, पाथाखेड़ा क्षेत्र में हर 03 साल में एक बार सेटेलाइट के द्वारा भूमि उपयोग एवं हरित क्षेत्र का मैपिंग कराया जाता है, चूंकि तवा-II एक भूमिगत खदान है, इसलिए खनन गतिविधि के कारण क्षेत्र के प्राकृतिक वनों पर नगण्य प्रभाव पड़ेगा।</li> </ul>	भी निरंतर रूपसे किया जाएगा।	
6.	श्री किस्मत राव (निवासी - शोभापुर) ने कहा कि आज से 30-35 साल पहले इस क्षेत्र में सुविधाएं नहीं उपलब्ध होती थी, लेकिन वेकोलि और पावर प्लांट के आने के बाद व्यवस्था में सुधार हुआ है। आगे हम किस प्रकार लाभान्वित होंगे ?	<ul style="list-style-type: none"> <li>➤ वेकोलि, पाथाखेड़ा क्षेत्र द्वारा आसपास के ग्रामजनों को वर्तमान में दी जाने वाली सुविधाएं आगे भी इसी प्रकार दी जाएगी एवं इसमें और भी विस्तार किया जाएगा।</li> <li>➤ वर्ष 2022-23 में वेकोलि, पाथाखेड़ा क्षेत्र द्वारा निगमित सामाजिक दायित्व के तहत निम्न लिखित कार्य किए जाने हैं: <ol style="list-style-type: none"> <li>1. 15 सरकारी विध्यालयों में लगभग 41 लाख रुपये की लागत</li> </ol> </li> </ul>	सी एस आर एक्शन प्लान 2022-23 के तहत बजट का प्रावधान पिछली पंक्ति में दी गई जानकारी के	उपरोक्त कार्य दिनांक 31/03/2023 तक पूर्ण किए जाएंगे।

क्र.	जनसामान्य द्वारा प्रस्तुत आपत्ति / सुझाव / टीका-टिप्पणी / अभिमत इत्यादि का विवरण	निराकरण के प्रस्ताव	बजट का प्रावधान	समय सीमा
		<p>से स्मार्ट क्लासरूम का निर्माण किया जाएगा।</p> <ol style="list-style-type: none"> <li>2. स्वरछत्ता के ऊपर डेढ़ लाख रुपये की लागत से विविध कार्य किए जाएंगे।</li> <li>3. केन्सर एवं ऑस्टीओपोरोसिस की चिकित्सकीय जांच हेतु चिकित्सा शिविरो का आयोजन 2 लाख रुपये की लागत से किया जाएगा।</li> <li>4. विद्यालयों में अभ्यास कर रही बालिकाओं को 5 लाख रुपये की लागत से बाइसिकल दिए जाएंगे।</li> <li>5. शांतिपुर शासकिया माध्यमिक विद्यालय में 20 लाख रुपये की लागत से सांस्कृतिक भवन का निर्माण किया जाएगा।</li> <li>6. बेतुल एवं छिंदवारा के 100 स्थानीय युवाओं को कोशल विकास कार्यक्रम के तहत सतर लाख रुपये की लागत से CIPET भोपाल में ट्रेनिंग दी जाएंगी।</li> </ol>	अनुसार किया गया है।	
7.	श्री देवेन्द्र कुमार (निवासी - पाथारखेड़ा) ने यह जानना चाहा कि, ध्वनि प्रदूषण का जन-जीवन पर क्या प्रभाव पड़ेगा ?	<ul style="list-style-type: none"> <li>➤ मूमिगत खदान में ज्यादातर कार्य जैसे ड्रिलिंग, ब्लास्टिंग एवं कोयले का लोडिंग भूमि के सतह के नीचे किए जाते हैं, अतः सतह पर ध्वनि प्रदूषण का कोई प्रभाव नहीं है।</li> <li>➤ यह प्रस्ताव तकनीकी रूप से उन्नत मशीनों द्वारा कोयला उत्पादन क्षमता के विस्तारीकरण हेतु लाया जा रहा है। उपरोक्त कन्टिन्यूअस माइजर मशीन कोयलेको काट कर उसे भरने का कार्य करेगी जिसमें ड्रिलिंग एवं ब्लास्टिंग की आवश्यकत नहीं रहेगी। अतः विस्तारीकरण के पश्चात भी ध्वनि प्रदूषण में किसी प्रकार की कोई बढ़ोतरी नहीं होगी।</li> <li>➤ आधारभूत ध्वनि गुणवत्ता निगरानी (Baseline Monitoring Results) के सभी मापदंड, <b>मानक सीमा के भीतर</b> हैं।</li> <li>➤ अतः ध्वनि प्रदूषण की सम्भावना नगण्य है। इसके अलावा खदान के आसपास स्थित घने वन ध्वनि अवरोधक के रूप में कार्य करते। जैसे की पूर्व में बताया गया है,</li> </ul>	लागू नहीं	लागू नहीं

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8.	श्री सालेन्द्र धुर्वे (निवासी - भोगईखापा) ने कहा कि वाहनों के आवागमन के कारण खेतों में दरार आ सकती है, इसके लिए क्या करेंगे ?	<ul style="list-style-type: none"> <li>➤ तवा - II खदान एक कार्यरत भूमिगत खदान है। एवं अभी तक खनन कार्य की वजहसे एसी कोई दरारे नहीं देखने को मिली है।</li> <li>➤ यह प्रस्ताव तकनीकी रूप से उन्नत मशीनों द्वारा कोयला उत्पादन क्षमता के विस्तारीकरण हेतु लाया जा रहा है। उपरोक्त कन्टिन्यूअस माइजर मशीन कोयलेको काट कर उसे भरने का कार्य करेगी जिसमे ड्रिलिंग एवं ब्लास्टिंग की आवश्यकत नहीं रहेगी। जिससे कंपनी की समस्या मूल से समाप्त हो जाएगी।</li> <li>➤ तवा - II भूमिगत खदान की गहराई 150 मीटर से अधिक होने से दरार होने की कोई सम्भावना नहीं है। इसके अतिरिक्त सभी प्रकार के खनन कार्य DGMS से प्राप्त अनुमति पत्रक की शर्तों के अनुसार होंगे एवं भूमि की सतह को सुरक्षित रखने हेतु सभी प्रकार के बचाव एवं निगरानी हेतु आवश्यक उपाय किए जाएंगे।</li> <li>➤ इसके अतिरिक्त गांव से ट्रान्सपोर्टेशन रोड लगभग 3 किलोमीटर दूर है, अतः दरार होने की कोई सम्भावना नहीं है।</li> </ul>	लागू नहीं	लागू नहीं
9.	श्री विवेकानन्द यादव (निवासी - शोभापुर) ने पूछा कि यहां जो कोयलाकमी है, उनकी सुरक्षा के लिए आप क्या कदम उठाएंगे ?	<ul style="list-style-type: none"> <li>➤ जैसेकी पूर्व मे विदित है, यह प्रस्ताव तकनीकी रूप से उन्नत मशीनों द्वारा कोयला उत्पादन क्षमता के विस्तारीकरण हेतु लाया जा रहा है। उपरोक्त कन्टिन्यूअस माइजर मशीन कोयलेको काट कर उसे भरने का कार्य करेगी जिसमे ड्रिलिंग एवं ब्लास्टिंग की आवश्यकत नहीं रहेगी। एवं उपरोक्त मशीन को कामगार एक सुरक्षित दूरी से रिमोट कंट्रोल के द्वारा संचालित करेगा जिससे सुरक्षा के उच्चतम मानकों की प्राप्ति होगी।</li> <li>➤ इसके अतिरिक्त कोयला खनन एवं इरारो जुड़े सभी कार्य सुरक्षा को दृष्टिगत रखकर DGMS से प्राप्त अनुमति की शर्तों के अनुरूप तरीके से किए जाते हैं और आगे भी किए जाएंगे। खदानमे "शून्य" दुर्घटना लक्ष्य पर केन्द्रित स्टैंडर्ड ऑपरटिंग प्रोसीजर के अनुसार उत्पादन किया जाता है। सभी कर्मियों</li> </ul>	यह कार्य परियोजना प्रबंधन द्वारा विभागीय रूप से किया जा रहा है।	यह कार्य वर्तमानमे किया जा रहा है।

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		<p>को उनके कार्य के दौरान व्यक्तिगत सुरक्षा उपकरण दिए जाते हैं। एवं ISO (इन्टर्नल सैफ्टी ऑडिटर) एवं DGMS संस्था द्वारा खदानमें समय समय पर सुरक्षा व्यवस्था की समीक्षा की जाती है।</p> <ul style="list-style-type: none"> <li>➤ इसके अतिरिक्त खदान के सभी कर्मियों को उनकी फिटनेस के अनुसार कार्य आवंटित किए जाते हैं।</li> <li>➤ सभी कर्मियों को उनके कार्य के दौरान व्यक्तिगत सुरक्षा उपकरण दिए जाते हैं।</li> </ul>		
10.	<p>श्री दिवाकर कासुवाट (निवासी - शोभापुर) द्वारा लिखित रूप से विचार रखे गए की, हमारे गांव के हर गलियों में रोड खुदे हुए हैं अतः वाहन आने जाने से काफी धूल उड़ती है। और आसपास के घरों में धूल जाती है और बहुत प्रदूषण होता है। अतः निवेदन है की धूल प्रदूषण पर विचार करे।</p>	<ul style="list-style-type: none"> <li>➤ तवा - II भूमिगत खदान से परिवहन हेतु शोभापुर गांव के मार्ग का उपयोग नहीं किया जाता है एवं ना ही वह मार्ग वेकोलि, पाथाखेड़ा क्षेत्र के प्रशासनिक नियंत्रण में है।</li> <li>➤ यहा पर यह जानकारी आती महत्वपूर्ण है की, शोभापुर गांव उपरोक्त खदान से काफी दूर है।</li> <li>➤ इसके उपरोक्त पर्यावरण संरक्षण हेतु परियोजना प्रबंधन द्वारा निम्नलिखित उपाय किए जाएंगे। वायु प्रदूषण रोकथाम के उपाय: <ol style="list-style-type: none"> <li>1. सड़कों का आसरीकरण</li> <li>2. वेल्ड एवं बंकर के उपर फिक्स सिंकलर द्वारा लगातार पानी का छिडकाव किया जाएगा।</li> <li>3. फोदला खान के लिए परिवेधी वायु गुणवत्ता की नियमित निगरानी की जाएगी।</li> </ol> </li> </ul>	लागू नहीं	लागू नहीं
11.	<p>श्री रोहित प्रजापति (निवासी-शोभापुर) के द्वारा लिखित रूप से विचार रखे गए की, कोई शिकायत नहीं है।</p>	लागू नहीं	लागू नहीं	लागू नहीं
12.	<p>कृष्णकांत सूर्यवंशी (निवासी-शोभापुर) के द्वारा लिखित रूप से विचार रखे गए की, ग्रामीणों को स्वास्थ्य सुविधाये दी जाए।</p>	<p>वेकोलि, पाथाखेड़ा क्षेत्र द्वारा निर्गमित सामाजिक दायित्व के तहत क्षेत्रीय अस्पताल, पाथाखेड़ा क्षेत्र में सीएसआर क्लीनिक का प्रारंभ किया गया है, जिसमें कोई भी ग्रामवासी अपना इलाज मुफ्त में करा सकता है। इसके अतिरिक्त समय समय पर वेकोलि, पाथाखेड़ा क्षेत्र द्वारा</p>	<p>यह कार्य परियोजना प्रबंधन द्वारा विभागीय रूप से किया जा रहा है। और भविष्य में भी इसी प्रकार</p>	<p>यह कार्य वर्तमानमें किया जा रहा है।</p>

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		<p>आसपास के क्षेत्रों में चिकित्सा शिविरों का भी आयोजन किया जाता है जिसका विवरण निम्नानुसार है:</p> <table border="1"> <thead> <tr> <th>वर्ष</th> <th>चिकित्सा शिविरों का प्रकार</th> <th>स्थान</th> <th>कुल लाभान्वित नागरिकों की संख्या</th> </tr> </thead> <tbody> <tr> <td>16-17</td> <td>Diabetes Detection Camp</td> <td>सलैया गाँव</td> <td>107</td> </tr> <tr> <td></td> <td>Female General Health Camp</td> <td>शोभापुर गाँव</td> <td>78</td> </tr> <tr> <td>17-18</td> <td>General Health Camp</td> <td>छतरपुर गाँव</td> <td>140</td> </tr> <tr> <td></td> <td>School Health Camp</td> <td>शोभापुर गाँव</td> <td>155</td> </tr> <tr> <td>18-19</td> <td>School Health Camp</td> <td>शोभापुर गाँव</td> <td>167</td> </tr> <tr> <td></td> <td>General Health Camp</td> <td>सलैया गाँव</td> <td>148</td> </tr> <tr> <td></td> <td>Retinopathy Detection Camp</td> <td>छतरपुर गाँव</td> <td>78</td> </tr> <tr> <td>19-20</td> <td>Hypertension Detection Camp</td> <td>राजेन्द्र नगर गाँव</td> <td>156</td> </tr> <tr> <td></td> <td>Diabetes Detection Camp</td> <td>छतरपुर गाँव</td> <td>127</td> </tr> <tr> <td>20-21</td> <td>General Health Checkup Camp</td> <td>मच्छीधाना गाँव</td> <td>58</td> </tr> <tr> <td>21-22</td> <td>Eye Disease Detection Camp</td> <td>शोभापुर गाँव</td> <td>153</td> </tr> <tr> <td></td> <td>Hiv &amp; Hepatitis B Detection &amp; Awareness Camp For Drivers</td> <td>कालीमाई नाका</td> <td>78</td> </tr> <tr> <td></td> <td>General Health Checkup Camp</td> <td>छतरपुर गाँव</td> <td>186</td> </tr> <tr> <td></td> <td>General Health Checkup Camp</td> <td>राजेन्द्र नगर गाँव</td> <td>143</td> </tr> <tr> <td></td> <td>Diabetes Detection Camp</td> <td>शोभापुर गाँव</td> <td>96</td> </tr> </tbody> </table>	वर्ष	चिकित्सा शिविरों का प्रकार	स्थान	कुल लाभान्वित नागरिकों की संख्या	16-17	Diabetes Detection Camp	सलैया गाँव	107		Female General Health Camp	शोभापुर गाँव	78	17-18	General Health Camp	छतरपुर गाँव	140		School Health Camp	शोभापुर गाँव	155	18-19	School Health Camp	शोभापुर गाँव	167		General Health Camp	सलैया गाँव	148		Retinopathy Detection Camp	छतरपुर गाँव	78	19-20	Hypertension Detection Camp	राजेन्द्र नगर गाँव	156		Diabetes Detection Camp	छतरपुर गाँव	127	20-21	General Health Checkup Camp	मच्छीधाना गाँव	58	21-22	Eye Disease Detection Camp	शोभापुर गाँव	153		Hiv & Hepatitis B Detection & Awareness Camp For Drivers	कालीमाई नाका	78		General Health Checkup Camp	छतरपुर गाँव	186		General Health Checkup Camp	राजेन्द्र नगर गाँव	143		Diabetes Detection Camp	शोभापुर गाँव	96	किए जाएंगे।	
वर्ष	चिकित्सा शिविरों का प्रकार	स्थान	कुल लाभान्वित नागरिकों की संख्या																																																																	
16-17	Diabetes Detection Camp	सलैया गाँव	107																																																																	
	Female General Health Camp	शोभापुर गाँव	78																																																																	
17-18	General Health Camp	छतरपुर गाँव	140																																																																	
	School Health Camp	शोभापुर गाँव	155																																																																	
18-19	School Health Camp	शोभापुर गाँव	167																																																																	
	General Health Camp	सलैया गाँव	148																																																																	
	Retinopathy Detection Camp	छतरपुर गाँव	78																																																																	
19-20	Hypertension Detection Camp	राजेन्द्र नगर गाँव	156																																																																	
	Diabetes Detection Camp	छतरपुर गाँव	127																																																																	
20-21	General Health Checkup Camp	मच्छीधाना गाँव	58																																																																	
21-22	Eye Disease Detection Camp	शोभापुर गाँव	153																																																																	
	Hiv & Hepatitis B Detection & Awareness Camp For Drivers	कालीमाई नाका	78																																																																	
	General Health Checkup Camp	छतरपुर गाँव	186																																																																	
	General Health Checkup Camp	राजेन्द्र नगर गाँव	143																																																																	
	Diabetes Detection Camp	शोभापुर गाँव	96																																																																	

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13.	श्री कमल नरें (निवासी-भोगईखापा) के द्वारा लिखित रूप से विचार रखे गए की, कोई आपति नहीं है।	<table border="1"> <tr> <td>22-23</td> <td>General Health Checkup Camp</td> <td>भोगईखापा गाँव</td> <td>147</td> </tr> </table> <p>इसके अतिरिक्त, आगे भी समस समय पर आसपास के क्षेत्रों में चिकित्सा शिविरों का आयोजन किया जाएगा।</p> <p>लागू नहीं</p>	22-23	General Health Checkup Camp	भोगईखापा गाँव	147	लागू नहीं	लागू नहीं
22-23	General Health Checkup Camp	भोगईखापा गाँव	147					
14.	प्रमोद कुमार (निवासी-बगड़ोना) के द्वारा लिखित रूप से विचार रखे गए की, काम करने वाली की तबीयत खराब होने पर उनके इलाज के लिए क्या क्या किया जाएगा?	<ul style="list-style-type: none"> <li>➤ खदान के समस्त कामगार एवं उनके परिजनों को वेकोलि तरफ से मुफ्त एवं गुणवत्ता युक्त चिकित्सा सेवाये मुहैया कराई जाती है।</li> <li>➤ खदानमें 24 घंटे एम्बुलेंस की व्यवस्था है। इसके अतिरिक्त वेकोलि, पाथाखेड़ा क्षेत्र में 07 डॉक्टर एवं 26 पैरामेडिकल स्टाफ एवं अध्यतन सुविधाओंसे युक्त 60 बेड वाला क्षेत्रीय अस्पताल कार्यरत है।</li> <li>➤ इसके अतिरिक्त खदान के सभी कर्मियोंका स्वास्थ्य निरीक्षण हर 5 साल में एक बार एवं 55 साल से ज्यादा आयु के कर्मियों के स्वास्थ्य की जांच हर 3 साल में एक बार होती है।</li> <li>➤ इसके अतिरिक्त खदान के सभी कर्मियों को उनकी फिटनेस के अनुसार कार्य आवंटित किए जाते हैं।</li> <li>➤ सभी कर्मियों को उनके कार्य के दौरान व्यक्तिगत सुरक्षा उपकरण दिए जाते हैं।</li> </ul>	यह कार्य परियोजना प्रबंधन द्वारा विभागीय रूप से किया जा रहा है। और भविष्य में भी इसी प्रकार किया जाएगा।	यह कार्य नियमित रूपसे किया जा रहा है।				
15.	धर्मराज सोनी (निवासी-पाथाखेड़ा के द्वारा लिखित रूप से विचार रखे गए की, कोई आपति नहीं है, हम चाहते हैं की, रोजगार दिया जाए।	<ul style="list-style-type: none"> <li>➤ परियोजना प्रबंधन का पक्ष :- अगस्त 2022 में पावर रिपोर्ट के अनुसार तवा - II भूमिगत खदान वर्तमान में 776 विभागीय कामगारों को रोजगार दे रही है। इसके अतिरिक्त खदान में कुल 230 ठेकेदारी कामगार भी कार्यरत हैं। इसके अतिरिक्त कॉल इंडिया द्वारा CIPET, भोपाल संस्था के साथ एमओयू के माध्यमसे वर्ष 2020-21 में Rs. 18.90 लाख की लागत से कुल 27 स्थानीय युवाओं एवं वर्ष 2022-23 में Rs. 70 लाख की लागत से दो चरणों में कुल 100 स्थानीय युवाओं को प्लास्टिक प्रोसेसिंग</li> </ul>	यह कार्य परियोजना प्रबंधन द्वारा विभागीय रूप से किया जा रहा है। वित्तीय खर्च की जानकारी निम्नानुसार है: 2020-21 : 18.90 लाख रु 2021-22 : 25.20 लाख रु 2022-23 : 70.00 लाख रु	यह कार्य नियमित रूपसे किया जा रहा है।				

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		<p>मे मशीन ऑपरेटर की ट्रेनिंग दी जा रही है।</p> <ul style="list-style-type: none"> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा कौशल विकास के क्षेत्र में वर्ष 2019-20 में 05 स्थानीय युवाओं को वेल्डर की ट्रेनिंग दी गई।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा कौशल विकास के क्षेत्र में वर्ष 2019-20 में 13 स्थानीय युवाओं को मशीनिस्ट की ट्रेनिंग दी गई।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा कौशल विकास के क्षेत्र में वर्ष 2019-20 में कुल 32 स्थानीय युवाओं को कॉल सेमपलिंग की ट्रेनिंग दी गई।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा 2021 एवं 2022 में (जून 2022 तक) कुल 121 युवाओं को एपरेंटिस की ट्रेनिंग दी गई।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा 2017 से 2022 (जून 2022 तक) कुल 1034 ठेकेदारी कामगार युवाओं को VTC के माध्यम से कोयला खनन से जुड़ी विविध गतिविधियों की ट्रेनिंग दी गई।</li> <li>➤ भविष्य में भी इस प्रकार के कौशल विकास के कार्यक्रम आयोजित किए जाएंगे।</li> </ul>		
16.	सतेन्द्र गोस्वामी (निवासी-पाथाखेड़ा) के द्वारा लिखित रूप से विचार रखे गए की, कोई आपति नहीं है।	लागू नहीं	लागू नहीं	लागू नहीं
17.	मोन् भलावी (निवासी-हिरापल्ला) के द्वारा लिखित रूप से विचार रखते हुए जमीन के धसाव के विषय में आपति प्रगत की।	<ul style="list-style-type: none"> <li>➤ तवा - II खदान एक कार्यरत भूमिगत खदान है। एवं अभी तक खनन कार्य की वजहसे एसी कोई दरार नहीं देखने को मिली है।</li> <li>➤ यह प्रस्ताव तकनीकी रूप से उन्नत मशीनों द्वारा कोयला उत्पादन क्षमता के विस्तारीकरण हेतु लाया जा रहा है। उपरोक्त कन्टिन्युअस माइनर मशीन कोयलेको काट कर उसे भरने का कार्य करेगी जिसमें ड्रिलिंग एवं ब्लास्टिंग की आवश्यकत नहीं रहेगी। जिससे कंपनी समस्या मूल से समाप्त हो जाएगी।</li> <li>➤ तवा - II भूमिगत खदान की गहराई 150 मीटर से अधिक होने से दरार होने की कोई सम्भावना नहीं है। इसके अतिरिक्त सभी प्रकार के</li> </ul>	यह कार्य परियोजना प्रबंधन द्वारा विभागीय रूप से किया जा रहा है और भविष्य में भी इसी प्रकार किया जाएगा।	यह कार्य वर्तमानमें किया जा रहा है।

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		खनन कार्य DGMS से प्राप्त अनुमति पत्रक की शर्तों के अनुसार होंगे एवं भूमि की सतह को सुरक्षित रखने हेतु सभी प्रकार के बचाव एवं निगरानी हेतु आवश्यक उपाय किए जाएंगे।		
18.	यशवंत राव देशमुख (निवासी - शोभापुर) द्वारा लिखित रूप से विचार रखे गए की, खदान खुलने से बहुत उन्नति हुई है, उत्पादन बढ़ने से आप क्षेत्र के लिए क्या और अधिक करोगे?	<ul style="list-style-type: none"> <li>➤ वेकोलि, पाथाखेड़ा क्षेत्र द्वारा आसपास के ग्रामजनों को वर्तमान में दी जाने वाली सुविधाएं आगे भी इसी प्रकार दी जाएगी एवं इसमें और भी विस्तार किया जाएगा।</li> <li>➤ वर्ष 2022-23 में वेकोलि, पाथाखेड़ा क्षेत्र द्वारा निगमित सामाजिक दायित्व के तहत निम्न लिखित कार्य किए जाने हैं: <ol style="list-style-type: none"> <li>1. 15 सरकारी विद्यालयों में लगभग 41 लाख रुपये की लागत से स्मार्ट क्लासरूम का निर्माण किया जाएगा।</li> <li>2. स्वरक्षता के ऊपर डेढ़ लाख रुपये की लागत से विविध कार्य किए जाएंगे।</li> <li>3. केन्सर एवं ऑस्टीओपोरोसिस की चिकित्सकीय जांच हेतु चिकित्सा शिविरो का आयोजन 2 लाख रुपये की लागत से किया जाएगा।</li> <li>4. विद्यालयों में अभ्यास कर रही बालिकाओं को 5 लाख रुपये की लागत से बाइसिकल दिए जाएंगे।</li> <li>5. शांतिपुर शासकिया माध्यमिक विद्यालय में 20 लाख रुपये की लागत से सांस्कृतिक भवन का निर्माण किया जाएगा।</li> <li>6. बेतुल एवं छिंदवाड़ा के 100 स्थानीय युवाओं को कोशल विकास कार्यक्रम के तहत सतर लाख रुपये की लागत से CIPET भोपाल में ट्रेनिंग दी जाएगी।</li> </ol> </li> </ul>	सी एस आर एक्शन प्लान 2022-23 के तहत बजट का प्रावधान पिछली पंक्ति में दी गई जानकारी के अनुसार किया गया है।	उपरोक्त कार्य दिनांक 31/03/2023 तक पूर्ण किए जाएंगे।
19.	श्री आलोक सिंह द्वारा लिखित रूप से विचार रखे गए की, कोई आपत्ति नहीं है, यह विचार बहुत सही है, इससे रोजगार के अवसर और बढ़ जाएंगे। एवं CSR का उपयोग बहुत सही तरीका है।	लागू नहीं	लागू नहीं	लागू नहीं

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20.	<p>नामदेव घोड़की (निवासी-शोभापुर) द्वारा लिखित रूप से विचार रखे गए की, खदानमें उत्पादन बढ़ाने से हरे भरे जंगलों पर क्या प्रभाव पड़ेगा? एवं यदि जंगल पर असर होता है तो आप इसके लिए क्या उपाय करोगे?</p>	<p>➤ जैसेकी पूर्व में विदित है, यह प्रस्ताव तकनीकी रूप से उन्नत मशीनों द्वारा कोयला उत्पादन क्षमता के विस्तारीकरण हेतु लाया जा रहा है। उपरोक्त कन्टिन्यूअस माइनर मशीन कोयलेको काट कर उसे भरने का कार्य करेगी जिसमें ड्रिलिंग एवं ब्लास्टिंग की आवश्यकत नहीं रहेगी। इसके अतिरिक्त भूमिगत खनन क्षेत्र में भी कोई बदलाव नहीं होगा। इसके अतिरिक्त कोयले का उत्पादन की प्रणाली में भी कोई बदलाव नहीं होगा। वर्तमानमें तवा - II भूमिगत खदान के ऊपर स्थित वनों में कोई बदलाव नहीं देखनेको मिला है, एवम भविष्यमें भी इन वनों पर कोई प्रतिकूल प्रभाव नहीं पड़ेगा। इसके अतिरिक्त उपरोक्त प्रस्तावित विस्तारीकरण हेतु कोई नए पेड़ नहीं काटे जाएंगे या सतह पर कोई भी नई अवसंरचना नहीं स्थापित की जाएगी।</p> <p>➤ भूमिगत खदान में ज्यादातर कार्य जैसे ड्रिलिंग, ब्लास्टिंग एवं कोयले का लोडिंग मूमि के रातह के नीचे किए जाते है।</p> <p>➤ इसके अतिरिक्त सन 1995-96 से 2021-22 तक, पाथाखेड़ा क्षेत्र में लगभग <b>94.70 हेक्टर क्षेत्र में लगभग 2,36,770 पेड़ लगाए गए हैं</b> और 31.01.2022 तक कुल <b>9,300 पेड़ों का वितरण</b> किया गया है। तवा-II भूमिगत खदान क्षेत्र <b>घने जंगलों के बीच स्थित है</b> और इसलिए, वृक्षारोपण की बहुत कम गुंजाइश है।</p> <p>➤ वेकोलि, पाथाखेड़ा क्षेत्र में हर 03 साल में एक बार सेटेलाइट के द्वारा भूमि उपयोग एवं हरित क्षेत्र का मैपिंग कराया जाता है, चूंकि तवा-II एक भूमिगत खदान है, इसलिए खनन गतिविधि के कारण क्षेत्र के प्राकृतिक वनों पर नगण्य प्रभाव पड़ेगा।</p>	<p>यह कार्य परियोजना प्रबंधन द्वारा विभागीय रूप से किया जा रहा है। और भविष्य में भी इसी प्रकार किया जाएगा।</p>	<p>यह कार्य वर्तमानमें किया जा रहा है।</p>
21.	<p>श्री राजू इहेरिया (निवासी-हिरापल्ला) द्वारा लिखित रूप से विचार रखे गए की, अरखा काम हो रहा है, रोजगार बढ़ाए।</p>	<p>➤ अगस्त 2022 में पावर रिपोर्ट के अनुसार तवा - II भूमिगत खदान वर्तमान में 778 विभागीय कामगारों को रोजगार दे रही है। इसके अतिरिक्त खदान में कुल 230 ठेकेदारी कामगार भी कार्यरत है। इसके अतिरिक्त कॉल इंडिया द्वारा CIPET, भोपाल संस्था</p>	<p>यह कार्य परियोजना प्रबंधन द्वारा विभागीय रूप से किया जा रहा है। वित्तिय खर्च की जानकारी</p>	<p>यह कार्य नियमित रूपसे किया जा रहा है।</p>

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		<p>के साथ एमओयू के माध्यमसे वर्ष 2020-21 में Rs. 18.90 लाख की लागत से कुल 27 स्थानीय युवाओं एवं वर्ष 2022-23 में Rs. 70 लाख की लागत से दो चरणों में कुल 100 स्थानीय युवाओं को प्लास्टिक प्रोसेसिंग में मशीन ऑपरेटर की ट्रेनिंग दी जा रही है।</p> <ul style="list-style-type: none"> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा कौशल विकास के क्षेत्र में वर्ष 2019-20 में 05 स्थानीय युवाओं को वेल्डर की ट्रेनिंग दी गई ।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा कौशल विकास के क्षेत्र में वर्ष 2019-20 में 13 स्थानीय युवाओं को मशीनिस्ट की ट्रेनिंग दी गई ।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा कौशल विकास के क्षेत्र में वर्ष 2019-20 में कुल 32 स्थानीय युवाओं को कॉल सेमपलिंग की ट्रेनिंग दी गई ।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा 2021 एवं 2022 में (जून 2022 तक) कुल 121 युवाओं को एपरेंटिस की ट्रेनिंग दी गई ।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा 2017 से 2022 (जून 2022 तक) कुल 1034 ठेकेदारी कामगार युवाओं को VTC के माध्यम से कोयला खनन से जुड़ी विविध गतिविधियों की ट्रेनिंग दी गई ।</li> <li>➤ भविष्य में भी इस प्रकार के कौशल विकास के कार्यक्रम आयोजित किए जाएंगे।</li> </ul>	<p>निम्नानुसार है:</p> <p>2020-21 : 18.90 लाख रु  2021-22 : 25.20 लाख रु  2022-23 : 70.00 लाख रु</p>									
22.	श्री राम विनय सिंह द्वारा लिखित रूप से विचार रखे गए की, क्षेत्र में चिकित्सा एवं शिक्षा का विस्तार किया जाए।	<p>वेकोलि, पाथाखेड़ा क्षेत्र द्वारा निगमित सामाजिक दायित्व के तहत क्षेत्रीय अस्पताल, पाथाखेड़ा क्षेत्र में सीएसआर क्लिनिक का प्रारंभ किया गया है, जिसमें कोई भी ग्रामवासी अपना इलाज मुफ्त में करा सकता है। इसके अतिरिक्त समय समय पर वेकोलि, पाथाखेड़ा क्षेत्र द्वारा आसपास के क्षेत्रों में चिकित्सा शिविरों का भी आयोजन किया जाता है जिसका विवरण निम्नानुसार है:</p> <table border="1"> <thead> <tr> <th>वर्ष</th> <th>चिकित्सा शिविरों का प्रकार</th> <th>स्थान</th> <th>कुल लाभान्वित नागरिकों</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	वर्ष	चिकित्सा शिविरों का प्रकार	स्थान	कुल लाभान्वित नागरिकों					सी एस आर एक्शन प्लान 2022-23 के तहत बजट का प्रावधान पिछली पंक्ति में दी गई जानकारी के अनुसार किया गया है।	उपरोक्त कार्य दिनांक 31/03/2023 तक पूर्ण किए जाएंगे।
वर्ष	चिकित्सा शिविरों का प्रकार	स्थान	कुल लाभान्वित नागरिकों									

क्र.	जनसामान्य द्वारा प्रस्तुत आपत्ति / सुझाव / टीका-टिप्पणी / अभिमत इत्यादि का विवरण	निराकरण के प्रस्ताव				बजट का प्रावधान	समय सीमा
					की संख्या		
		16-17	Diabetes Detection Camp	सलैया गाँव		107	
			Female General Health Camp	शोभापुर गाँव		78	
		17-18	General Health Camp	छतरपुर गाँव		140	
			School Health Camp	शोभापुर गाँव		155	
			School Health Camp	शोभापुर गाँव		167	
		18-19	General Health Camp	सलैया गाँव		148	
			Retinopathy Detection Camp	छतरपुर गाँव		78	
		19-20	Hypertension Detection Camp	राजेन्द्र नगर गाँव		156	
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		20-21	General Health Checkup Camp	मच्छीधाना गाँव		58	
			Eye Disease Detection Camp	शोभापुर गाँव		153	
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		21-22	General Health Checkup Camp	छतरपुर गाँव		186	
			General Health Checkup Camp	राजेन्द्र नगर गाँव		143	
			Diabetes Detection Camp	शोभापुर गाँव		96	
		22-23	General Health Checkup Camp	भोगईखपा गाँव		147	
		<p>इसके अतिरिक्त, आगे भी समस समय पर आसपास के क्षेत्रों में चिकित्सा शिविरों का आयोजन किया जाएगा।</p> <p>➤ वर्ष 2022-23 में वेकोलि, पाथाखेड़ा क्षेत्र द्वारा निगमित सामाजिक</p>					

क्र.	जनसामान्य द्वारा प्रस्तुत आपत्ति / सुझाव / टीका-टिप्पणी / अभिमत इत्यादि का विवरण	निराकरण के प्रस्ताव	बजट का प्रावधान	समय सीमा											
		<p>दायित्व के तहत निम्न लिखित कार्य किए जाने हैं:</p> <ol style="list-style-type: none"> <li>1. 15 सरकारी विद्यालयों में लगभग 41 लाख रुपये की लागत से स्मार्ट क्लासरूम का निर्माण किया जाएगा।</li> <li>2. स्वरछता के ऊपर डेढ़ लाख रुपये की लागत से विविध कार्य किए जाएंगे।</li> <li>3. केन्सर एवं ऑस्टीओपोरोसिस की चिकित्सकीय जांच हेतु चिकित्सा शिविरो का आयोजन 2 लाख रुपये की लागत से किया जाएगा।</li> <li>4. विद्यालयों में अभ्यास कर रही बालिकाओं को 5 लाख रुपये की लागत से ब्राइसिकल दिए जाएंगे।</li> <li>5. शांतिपुर शासकिया माध्यमिक विद्यालय में 20 लाख रुपये की लागत से सांस्कृतिक भवन का निर्माण किया जाएगा।</li> <li>6. बेतुल एवं छिंदवारा के 100 स्थानीय युवाओं को कोशल विकास कार्यक्रम के तहत सतर लाख रुपये की लागत से CIPET भोपाल में ट्रेनिंग दी जाएगी।</li> </ol> <p>➤ भविष्य में भी इसी प्रकार किए जाएंगे।</p>													
23.	<p>किस्मत राव (निवासी शोभापुर) द्वारा लिखित रूप से विचार रखे गए की, 35-40 वर्षों पहले यहा स्कूल, अस्पताल, पार्क, स्टेडियम की व्यवस्था नहीं थी। सारणी में पवार हाउस एवं खदान खुलने के बाद स्कूल, अस्पताल, पार्क, स्टेडियम की व्यवस्था हुई, इसे ही आगे ग्रामीणों के लिए क्या व्यवस्था की जाएगी।</p>	<p>वेकोलि, पाथाखेड़ा क्षेत्र द्वारा निगमित सामाजिक दायित्व के तहत क्षेत्रीय अस्पताल, पाथाखेड़ा क्षेत्र में सीएसआर क्लीनिक का प्रारंभ किया गया है, जिसमें कोई भी ग्रामवासी अपना इलाज मुफ्त में करा सकता है। इसके अतिरिक्त समय समय पर वेकोलि, पाथाखेड़ा क्षेत्र द्वारा आसपास के क्षेत्रों में चिकित्सा शिविरो का भी आयोजन किया जाता है जिसका विवरण निम्नानुसार है:</p> <table border="1"> <thead> <tr> <th>वर्ष</th> <th>चिकित्सा शिविरो का प्रकार</th> <th>स्थान</th> <th>कुल लाभान्वित नागरिकों की संख्या</th> </tr> </thead> <tbody> <tr> <td rowspan="2">16-17</td> <td>Diabetes Detection Camp</td> <td>सलैया गाँव</td> <td>107</td> </tr> <tr> <td>Female General Health Camp</td> <td>शोभापुर गाँव</td> <td>78</td> </tr> </tbody> </table>	वर्ष	चिकित्सा शिविरो का प्रकार	स्थान	कुल लाभान्वित नागरिकों की संख्या	16-17	Diabetes Detection Camp	सलैया गाँव	107	Female General Health Camp	शोभापुर गाँव	78	<p>सी एस आर एक्शन प्लान 2022-23 के तहत बजट का प्रावधान पिछली पंक्ति में दी गई जानकारी के अनुसार किया गया है।</p>	<p>उपरोक्त कार्य दिनांक 31/03/2023 तक पूर्ण किए जाएंगे।</p>
वर्ष	चिकित्सा शिविरो का प्रकार	स्थान	कुल लाभान्वित नागरिकों की संख्या												
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क्र.	जनसामान्य द्वारा प्रस्तुत आपत्ति / सुझाव / टीका-टिप्पणी / अभिमत इत्यादि का विवरण	निराकरण के प्रस्ताव				बजट का प्रावधान	समय सीमा
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	<p>इसके अतिरिक्त, आगे भी समस समय पर आसपास के क्षेत्रों में चिकित्सा शिविरों का आयोजन किया जाएगा।</p> <p>➤ वर्ष 2022-23 में वेकोलि, पाथाखेड़ा क्षेत्र द्वारा निगमित सामाजिक दायित्व के तहत निम्न लिखित कार्य किए जाने हैं:</p> <ol style="list-style-type: none"> <li>1. 15 सरकारी विध्यालयों में लगभग 41 लाख रुपये की लागत से स्मार्ट क्लासरूम का निर्माण किया जाएगा।</li> <li>2. स्वरक्षता के ऊपर डेढ़ लाख रुपये की लागत से विविध कार्य किए</li> </ol>						

क्र.	जनसामान्य द्वारा प्रस्तुत आपत्ति / सुझाव / टीका-टिप्पणी / अभिमत इत्यादि का विवरण	निराकरण के प्रस्ताव	बजट का प्रावधान	समय सीमा
		<p>जाएंगे।</p> <p>3. केन्सर एवं ऑस्टीओपोरोसिस की चिकित्सकीय जांच हेतु चिकित्सा शिविरो का आयोजन 2 लाख रुपये की लागत से किया जाएगा।</p> <p>4. विद्यालयों में अभ्यास कर रही बालिकाओं को 5 लाख रुपये की लागत से ब्राइसिकल दिए जाएंगे।</p> <p>5. शांतिपुर शासकिया माध्यमिक विद्यालय में 20 लाख रुपये की लागत से सांस्कृतिक भवन का निर्माण किया जाएगा।</p> <p>6. बेतुल एवं छिंदवारा के 100 स्थानीय युवाओं को कोशल विकास कार्यक्रम के तहत सतर लाख रुपये की लागत से CIPET भोपाल में ट्रेनिंग दी जाएगी।</p> <p>➤ भविष्य में भी इसी प्रकार किए जाएंगे।</p>		
24.	श्री कल्लू (निवासी - मुल्ताई) द्वारा लिखित रूप से विचार रखे गए की, अति उत्कृष्ट कार्य के लिए धन्यवाद।	लागू नहीं	लागू नहीं	लागू नहीं
25.	किशन यादव (निवासी-शोभापुर) के द्वारा लिखित रूप से विचार रखे गए की, कामगारों की सुरक्षा के लिए आप क्या कदम उठाएंगे।	<p>➤ कोयला खनन एवं इससे जुड़े सभी कार्य सुरक्षा को दृष्टिगत रखकर DGMS से प्राप्त अनुमति की शर्तों के अनुरूप तरीके से किए जाते हैं और आगे भी किए जाएंगे।</p> <p>➤ सुरक्षा के लिए बोहोत ही प्रभावी कानून जैसे की कॉल माइन रेग्युलेशन 2017, माइन्स रूल्स 1957 बने हुए हैं, जोकी सुरक्षा से संबंधित वोकेशनल ट्रेनिंग एवं अन्य सभी पहेलूओ पर गौर करते हुए बनाए गए हैं।</p> <p>➤ खदानमें कोयला खनन एवं इससे जुड़े सभी कार्यों के दौरान उपरोक्त सभी कानूनों का पालन किया जाता है।</p> <p>➤ प्रस्तावित विस्तारीकरण के पश्चात, आगे भविष्य में भी सभी कार्य सुरक्षा को दृष्टिगत रखकर DGMS से प्राप्त अनुमति की शर्तों के अनुरूप तरीके से किए जाएंगे।</p>	यह कार्य परियोजना प्रबंधन द्वारा विभागीय रूप से किया जा रहा है। और भविष्य में भी इसी प्रकार किया जाएगा।	यह कार्य वर्तमानमें किया जा रहा है।

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		<ul style="list-style-type: none"> <li>➤ जैसेकी पूर्व में विदित है, यह प्रस्ताव तकनीकी रूप से उन्नत मशीनों द्वारा कोयला उत्पादन क्षमता के विस्तारीकरण हेतु लाया जा रहा है। उपरोक्त कन्टिन्यूअस माइनर मशीन कोयलेको काट कर उसे भरने का कार्य करेगी जिसमें ड्रिलिंग एवं ब्लास्टिंग की आवश्यकत नहीं रहेगी। एवं उपरोक्त मशीन को कामगार एक सुरक्षित दूरी से रिमोट कंट्रोल के द्वारा संचालित करेगा जिससे सुरक्षा के उच्चतम मानकों की प्राप्ति होगी।</li> <li>➤ इसके अतिरिक्त खदानमें "थु-थ" दुर्घटना लक्ष्य पर केंद्रित स्टैंडर्ड ऑपरटिंग प्रोसीजर के अनुसार उत्पादन किया जाता है। सभी कर्मियों को उनके कार्य के दौरान व्यक्तिगत सुरक्षा उपकरण दिए जाते हैं। एवं ISO (इन्टर्नल सैफटी ऑडिटर) एवं DGMS संस्था द्वारा खदानमें समय समय पर सुरक्षा व्यवस्था की समीक्षा की जाती है।</li> <li>➤ इसके अतिरिक्त खदान के सभी कर्मियों को उनकी फिटनेस के अनुसार कार्य आवंटित किए जाते हैं।</li> <li>➤ सभी कर्मियों को उनके कार्य के दौरान व्यक्तिगत सुरक्षा उपकरण दिए जाते हैं।</li> </ul>		
26.	श्री मुहम्मद अमान निज़ामी (निवासी-पाथाखेड़ा) के द्वारा लिखित रूप से विचार रखे गए की, कोई आपत्ति नहीं है, बहुत अच्छे विचार हैं।	लागू नहीं	लागू नहीं	लागू नहीं
27.	श्री प्रवीण कुमार (निवासी - सलैया) के द्वारा लिखित रूप से विचार रखे गए की, सलैया गाव के वासियों को मेडिकल की सुविधा बढ़ाए एवं हमारे गाँवमें भी हैडपम्प की स्थापना करने की कृपया	वेकोलि, पाथाखेड़ा क्षेत्र द्वारा निगमित सामाजिक दायित्व के तहत क्षेत्रीय अस्पताल, पाथाखेड़ा क्षेत्र में सीएसआर क्लीनिक का प्रारंभ किया गया है, जिसमें कोई भी ग्रामवासी अपना इलाज मुफ्त में करा सकता है। इसके अतिरिक्त समय समय पर वेकोलि, पाथाखेड़ा क्षेत्र द्वारा आसपास के क्षेत्रों में चिकित्सा शिविरों का भी आयोजन किया जाता है	सी एर आर एक्शन प्लान 2023-24 (यदि ग्रामसभा फरवरी 2023 तक इस विकास कार्य का प्रस्ताव देती है उस स्थितिमें)	31/03/2024 (यदि ग्रामसभा फरवरी 2023 तक इस विकास कार्य का प्रस्ताव देती है उस स्थितिमें)

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	करे।	<p>जिसका विवरण निम्नानुसार है:</p> <table border="1"> <thead> <tr> <th>वर्ष</th> <th>चिकित्सा शिविरों का प्रकार</th> <th>स्थान</th> <th>कुल लाभान्वित नागरिकों की संख्या</th> </tr> </thead> <tbody> <tr> <td>16-17</td> <td>Diabetes Detection Camp</td> <td>सलैया गाँव</td> <td>107</td> </tr> <tr> <td></td> <td>Female General Health Camp</td> <td>शोभापुर गाँव</td> <td>78</td> </tr> <tr> <td>17-18</td> <td>General Health Camp</td> <td>छतरपुर गाँव</td> <td>140</td> </tr> <tr> <td>18-19</td> <td>School Health Camp</td> <td>शोभापुर गाँव</td> <td>155</td> </tr> <tr> <td>18-19</td> <td>School Health Camp</td> <td>शोभापुर गाँव</td> <td>167</td> </tr> <tr> <td>18-19</td> <td>General Health Camp</td> <td>सलैया गाँव</td> <td>148</td> </tr> <tr> <td>18-19</td> <td>Retinopathy Detection Camp</td> <td>छतरपुर गाँव</td> <td>78</td> </tr> <tr> <td>19-20</td> <td>Hypertension Detection Camp</td> <td>राजेन्द्र नगर गाँव</td> <td>156</td> </tr> <tr> <td>19-20</td> <td>Diabetes Detection Camp</td> <td>छतरपुर गाँव</td> <td>127</td> </tr> <tr> <td>20-21</td> <td>General Health Checkup Camp</td> <td>मच्छीधाना गाँव</td> <td>58</td> </tr> <tr> <td>21-22</td> <td>Eye Disease Detection Camp</td> <td>शोभापुर गाँव</td> <td>153</td> </tr> <tr> <td>21-22</td> <td>Hiv &amp; Hepatitis B Detection &amp; Awareness Camp For Drivers</td> <td>कालीमाई नाका</td> <td>78</td> </tr> <tr> <td>21-22</td> <td>General Health Checkup Camp</td> <td>छतरपुर गाँव</td> <td>186</td> </tr> <tr> <td>21-22</td> <td>General Health Checkup Camp</td> <td>राजेन्द्र नगर गाँव</td> <td>143</td> </tr> <tr> <td>21-22</td> <td>Diabetes Detection Camp</td> <td>शोभापुर गाँव</td> <td>96</td> </tr> </tbody> </table>	वर्ष	चिकित्सा शिविरों का प्रकार	स्थान	कुल लाभान्वित नागरिकों की संख्या	16-17	Diabetes Detection Camp	सलैया गाँव	107		Female General Health Camp	शोभापुर गाँव	78	17-18	General Health Camp	छतरपुर गाँव	140	18-19	School Health Camp	शोभापुर गाँव	155	18-19	School Health Camp	शोभापुर गाँव	167	18-19	General Health Camp	सलैया गाँव	148	18-19	Retinopathy Detection Camp	छतरपुर गाँव	78	19-20	Hypertension Detection Camp	राजेन्द्र नगर गाँव	156	19-20	Diabetes Detection Camp	छतरपुर गाँव	127	20-21	General Health Checkup Camp	मच्छीधाना गाँव	58	21-22	Eye Disease Detection Camp	शोभापुर गाँव	153	21-22	Hiv & Hepatitis B Detection & Awareness Camp For Drivers	कालीमाई नाका	78	21-22	General Health Checkup Camp	छतरपुर गाँव	186	21-22	General Health Checkup Camp	राजेन्द्र नगर गाँव	143	21-22	Diabetes Detection Camp	शोभापुर गाँव	96		
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		<p>22-23 General Health Checkup Camp भोगईखपा गाँव 147</p> <p>इसके अतिरिक्त, आगे भी समस समय पर आसपास के क्षेत्रों में चिकित्सा शिविरों का आयोजन किया जाएगा।</p> <p>➤ हैंडपंप की स्थापना करने के संबंध में यदि ग्राम सभा फरवरी 2023 के पहले इस विकास कार्य का प्रस्ताव देती है, तो ग्राम पंचायत से प्राप्ता प्रस्ताव के अनुसार इस Area CSR Committee के समक्ष रखा जाएगा, यदि वो सी एस आर पॉलिसी के अंतर्गत किए जा सकते हैं, तो उन्हें अगले वित्तीय वर्ष 2023-24 के सी एस आर एक्शन प्लान में सम्मिलित करने हेतु उचित कारवाई कि जाएगी।</p>		
28.	श्री अब्दुल हमीज (निवासी-पाथाखेड़ा) के द्वारा लिखित रूप से विचार रखे गए की, सारा काम अरखा है।	लागू नहीं	लागू नहीं	लागू नहीं
29.	देवेन्द्र कुमार (निवासी- पाथाखेड़ा) के द्वारा लिखित रूप से विचार रखे गए की, खेतों में जो ध्वनि प्रदूषण हो रहा है उससे हमारे स्वास्थ्य पर क्या असर पड़ेगा?	<p>➤ परियोजना प्रबंधन का पक्ष:- आधारभूत ध्वनि गुणवत्ता निगरानी (Baseline Monitoring Results) के सभी मापदंड, मानक सीमा के भीतर है। तवा - II भूमिगत खदान होने से कोयला उत्पादन से संलग्न सभी प्रमुख गतिविधिया भूमिगत रूप से की जाएगी। अतः ध्वनि प्रदूषण की सम्भावना नगण्य है। इसके अलावा खदान के आसपास स्थित घने वन ध्वनि अवरोधक के रूप में कार्य करते।</p> <p>➤ जैसेकी पूर्व में विदित है, यह प्रस्ताव तकनीकी रूप से उन्नत मशीनों द्वारा कोयला उत्पादन क्षमता के विस्तारीकरण हेतु लाया जा रहा है। उपरोक्त कन्स्ट्रिक्ट्यूअस माइजर मशीन कोयलेको काट कर उसे भरने का कार्य करेगी जिसमें ड्रिलिंग एवं ब्लास्टिंग की आवश्यकत नहीं रहेगी। अतः विस्तरण के पश्चयात भी ध्वनि प्रदूषण में किसी प्रकार की कोई बढ़ोतरी नहीं होगी।</p>	यह कार्य परियोजना प्रबंधन द्वारा किया जा रहा है।	यह कार्य वर्तमानमें किया जा रहा है।

क्र.	जनसामान्य द्वारा प्रस्तुत आपत्ति / सुझाव / टीका-टिप्पणी / अभिमत इत्यादि का विवरण	निराकरण के प्रस्ताव	बजट का प्रावधान	समय सीमा
30.	श्री राजेन्द्र सोनरे के द्वारा लिखित रूप से विचार रखे गए की, गाडी द्वारा लेजाया गया कोयला सड़क किनारे गिरता है, जिसकी वजह से सड़क किनारे कोयला जमा हो जाता है। जिसकी वजह से वर्षाकाल में कीचड़ हो जाता है।	<ul style="list-style-type: none"> <li>➤ वेकोलि एवं MPPGCL के मध्य किए गए ईंधन आपूर्ति समझौते के अनुसार, कोयला परिवहन का सारा कार्य MPPGCL के द्वारा किया जाएगा। अतः इस विषय में MPPGCL से अनुरोध किया जाएगा की पर्यावरण से संबंधित सभी प्रवर्तमान नियमों एवं प्रावधानों के तहत ही कोयला परिवहन का सारा कार्य किया जाए।</li> </ul>	लागू नहीं	लागू नहीं
31.	मोहन सिंदरकर (निवासी - भोगईखापा) के द्वारा लिखित रूप से विचार रखे गए की, रोजगार बढ़ाया जाए।	<ul style="list-style-type: none"> <li>➤ परियोजना प्रबंधन का पक्ष :- अगस्त 2022 में पावर रिपोर्ट के अनुसार तवा - II भूमिगत खदान वर्तमान में 776 विभागीय कामगारों को रोजगार दे रही है। इसके अतिरिक्त खदान में कुल 230 ठेकेदारी कामगार भी कार्यरत है। इसके अतिरिक्त कॉल इंडिया द्वारा CIPET, भोपाल संस्था के साथ एमओयू के माध्यमसे वर्ष 2020-21 में Rs. 18.90 लाख की लागत से कुल 27 स्थानीय युवाओं एवं वर्ष 2022-23 में Rs. 70 लाख की लागत से दो चरणों में कुल 100 स्थानीय युवाओं को प्लास्टिक प्रोसेसिंग में मशीन ऑपरेटर की ट्रेनिंग दी जा रही है।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा कौशल विकास के क्षेत्र में वर्ष 2019-20 में 05 स्थानीय युवाओं को वेल्डर की ट्रेनिंग दी गई ।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा कौशल विकास के क्षेत्र में वर्ष 2019-20 में 13 स्थानीय युवाओं को मशीनिस्ट की ट्रेनिंग दी गई ।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा कौशल विकास के क्षेत्र में वर्ष 2019-20 में कुल 32 स्थानीय युवाओं को कॉल सैमपलिंग की ट्रेनिंग दी गई ।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा 2021 एवं 2022 में (जून 2022 तक) कुल 121 युवाओं को एपरेंटिस की ट्रेनिंग दी गई ।</li> </ul>	यह कार्य परियोजना प्रबंधन द्वारा विभागीय रूप से किया जा रहा है। वित्तीय खर्च की जानकारी निम्नानुसार है: 2020-21 : 18.90 लाख रु 2021-22 : 25.20 लाख रु 2022-23 : 70.00 लाख रु	यह कार्य नियमित रूपसे किया जा रहा है।

क्र.	जनसामान्य द्वारा प्रस्तुत आपत्ति / सुझाव / टीका-टिप्पणी / अभिमत इत्यादि का विवरण	निराकरण के प्रस्ताव	बजट का प्रावधान	समय सीमा
		<ul style="list-style-type: none"> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा 2017 से 2022 (जून 2022 तक) कुल 1034 ठेकेदारी कामगार युवाओं को VTC के माध्यम से कोयला खनन से जुड़ी विविध गतिविधियों की ट्रेनिंग दी गई।</li> <li>➤ भविष्यमें भी इस प्रकार के कौशल विकास के कार्यक्रम आयोजित किए जाएंगे।</li> </ul>		
32.	अनिल (निवासी भोगईखापा) के द्वारा लिखित रूप से विचार रखे गए की, पानी गर्मी में सुख जाता है।	<ul style="list-style-type: none"> <li>➤ परियोजना प्रबंधन का पक्ष :- इस संबंध में यदि ग्राम सभा फरवरी 2023 के पहले इस विकास कार्य का प्रस्ताव देती है, तो ग्राम पंचायत से प्राप्त प्रस्ताव के अनुसार इस Area CSR Committee के समक्ष रखा जाएगा, यदि वो सी एस आर पॉलिसी के अंतर्गत किए जा सकते हैं, तो उन्हें अगले वित्तीय वर्ष 2023-24 के सी एस आर एक्शन प्लान में सम्मिलित करने हेतु उचित कारवाई कि जाएगी।</li> </ul>	सी एस आर एक्शन प्लान 2023-24 (यदि ग्रामसभा फरवरी 2023 तक इस विकास कार्य का प्रस्ताव देती है उस स्थितिमें)	31/03/2024 (यदि ग्रामसभा फरवरी 2023 तक इस विकास कार्य का प्रस्ताव देती है उस स्थितिमें)
33.	श्री प्रेमलाल (निवासी-शोभापुर) के द्वारा लिखित रूप से विचार रखे गए की, हमारे बच्चों को रोजगार हेतु आप क्या करेंगे?	<ul style="list-style-type: none"> <li>➤ परियोजना प्रबंधन का पक्ष :- अगस्त 2022 में पावर रिपोर्ट के अनुसार तवा - II भूमिगत खदान वर्तमान में 776 विभागीय कामगारों को रोजगार दे रही है। इसके अतिरिक्त खदान में कुल 230 ठेकेदारी कामगार भी कार्यरत हैं। इसके अतिरिक्त कॉल इंडिया द्वारा CIPET, भोपाल संस्था के साथ एमओयू के माध्यमसे वर्ष 2020-21 में Rs. 18.90 लाख की लागत से कुल 27 स्थानीय युवाओं एवं वर्ष 2022-23 में Rs. 70 लाख की लागत से दो चरणों में कुल 100 स्थानीय युवाओं को प्लास्टिक प्रोसेसिंग में मशीन ऑपरेटर की ट्रेनिंग दी जा रही है।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा कौशल विकास के क्षेत्र में वर्ष 2019-20 में 05 स्थानीय युवाओं को वेल्डर की ट्रेनिंग दी गई।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा कौशल विकास के क्षेत्र में वर्ष 2019-20 में 13 स्थानीय युवाओं को मशीनिस्ट की ट्रेनिंग दी गई।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा कौशल विकास के क्षेत्र में वर्ष 2019-20 में कुल 32 स्थानीय युवाओं को कॉल सेमपलिंग की ट्रेनिंग दी</li> </ul>	यह कार्य परियोजना प्रबंधन द्वारा विभागीय रूप से किया जा रहा है। वित्तीय खर्च की जानकारी निम्नानुसार है: 2020-21 : 18.90 लाख रु 2021-22 : 25.20 लाख रु 2022-23 : 70.00 लाख रु	यह कार्य नियमित रूपसे किया जा रहा है।

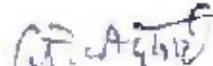
क्र.	जनसामान्य द्वारा प्रस्तुत आपत्ति / सुझाव / टीका-टिप्पणी / अभिमत इत्यादि का विवरण	निराकरण के प्रस्ताव	बजट का प्रावधान	समय सीमा
		<p>गई।</p> <ul style="list-style-type: none"> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा 2021 एवं 2022 में (जून 2022 तक) कुल 121 युवाओं को एपरेंटिस की ट्रेनिंग दी गई।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा 2017 से 2022 (जून 2022 तक) कुल 1034 ठेकेदारी कामगार युवाओं को VTC के माध्यम से कोयला खनन से जुड़ी विविध गतिविधियों की ट्रेनिंग दी गई।</li> <li>➤ भविष्य में भी इस प्रकार के कौशल विकास के कार्यक्रम आयोजित किए जाएंगे।</li> </ul>		
34.	श्री सुंदरलाल (निवासी - हिरामल्ला) के द्वारा लिखित रूप से विचार रखे गए की, खदान में हवा पर क्या प्रभाव पड़ेगा?	<ul style="list-style-type: none"> <li>➤ तथा-2 प्रोजेक्ट भूमिगत खदान है। भूमिगत खदान में ज्यादातर कार्य जैसे ड्रिलिंग, क्लारिफिंग एवं कोयले का लोडिंग भूमि के सतह के नीचे किए जाते हैं। एवं इससे खुली खदान की तुलना में वातावरण में बहुत ही कम मात्रा में वायु प्रदूषण होता है।</li> <li>➤ यह प्रस्ताव तकनीकी रूप से उन्नत मशीनों (कॉन्टिन्यूअस माइनर) द्वारा कोयला खनन के लिए प्रयुक्त है, इसमें ड्रिलिंग एवं क्लारिफिंग का उपयोग नहीं होता है, जिसकी वजह से धमाके से उत्पन्न होने वाली फ्यूम एवं वायु की समस्या भी स्थायी तौर पर हल हो गई है एवं सूक्ष्म धूल के कणों की मात्रा में भी भारी कमी आई है। इसके अतिरिक्त इस मशीन में अत्याधुनिक मिस्ट गन प्रणाली भी आस्तित्व में है, जो की धूल के कणों को असरकारक तरीके से नियंत्रित करते हैं। आधारभूत वायु गुणवत्ता निगरानी (Baseline Monitoring Results) के सभी मापदंड, मानक सीमा के भीतर हैं।</li> <li>➤ इसके अतिरिक्त उपरोक्त जानकारी के आधार पर एयर मॉडलिंग की जाती है एवं वायु प्रदूषण के नियंत्रण हेतु पर्यावरण प्रबंधन योजना बनाई गई है। जिसके अनुसार उपरोक्त विस्तारीकरण से वायु गुणवत्ता पर नगण्य प्रभाव पड़ेगा।</li> <li>➤ इसलिए वायु प्रदूषण होने की सम्भावना नहीं है। इसके उपरोक्त पर्यावरण संरक्षण हेतु परियोजना प्रबंधन द्वारा निम्नलिखित उपाय किए जाएंगे।</li> </ul>	यह कार्य परियोजना प्रबंधन द्वारा विभागीय रूप से किया जा रहा है। एवं आगे भी निरंतर रूप से किया जाएगा।	यह कार्य वर्तमान में किया जा रहा है।


क्र.	जनसामान्य द्वारा प्रस्तुत आपत्ति / सुझाव / टीका-टिप्पणी / अभिमत इत्यादि का विवरण	निराकरण के प्रस्ताव	बजट का प्रावधान	समय सीमा
		<p>वायु प्रदूषण रोकथाम के उपाय:</p> <ol style="list-style-type: none"> <li>1. सड़कों का जामरीकरण</li> <li>2. हेल्ड एवं बंकर के उपर फिक्स सिप्रंकलर द्वारा लगातार पानी का छिड़काव किया जाएगा।</li> <li>3. कोयला खान के लिए परिवेधी वायु गुणवत्ता की नियमित निगरानी की जाएगी।</li> </ol>		
35.	श्री रोहित प्रभाकर (निवासी -शोभापुर) के द्वारा लिखित रूप से विचार रखे गए की, कोई आपत्ति नहीं है।	लागू नहीं	लागू नहीं	लागू नहीं
36.	श्री जयराम सूर्यवंशी (निवासी - राजेगावखामा) के द्वारा लिखित रूप से विचार रखे गए की, खदान से जो पानी बाहर या रहा है इससे पानी पर क्या प्रभाव पड़ेगा?	<p>➤ जैसे कि पूर्व में बताया गया है, तवा-2 प्रोजेक्ट भूमिगत खदान है। भूमिगत खदान में ज्यादातर कार्य जैसे ड्रिलिंग, ब्लारिंटिंग एवं कोयले का लोडिंग भूमि के सतह के नीचे किए जाते हैं। और केवल कोयले का परिवहन ही सतह पर किया जाना है। अतः जल पर्यावरण पर कोई नकारात्मक प्रभाव नहीं होगा।</p> <p>➤ आधारभूत जल गुणवत्ता निगरानी (Baseline Monitoring Results) के सभी मापदंड, मानक सीमा के भीतर हैं। प्रस्तावित भूमिगत खदान से प्रदूषण की मात्रा मानक सीमा के भीतर रहेगी।</p> <p>➤ यह प्रस्ताव तकनीकी रूप से उन्नत मशीनों द्वारा कोयला उत्पादन क्षमता के विस्तारीकरण हेतु लाया जा रहा है। इसमें खदान की वर्किंग डेपथ या कोयला सीम या भूगर्भीय रचना में कोई बदलाव नहीं होगा। अतः जल पर्यावरण पर कोई नकारात्मक प्रभाव नहीं होगा।</p> <p>➤ वर्तमान प्रणाली के अनुसार अविष्य में भी, खदान के पानी में मौजूद निर्लंबित कणों को खदान में स्थित भूमिगत सम्प की सहायता से सतह पर मौजूद अवसादन टैंक के द्वारा शुद्धिकरण किया जा रहा है। अतः जल पर्यावरण पर प्रभाव नगण्य रहेगा।</p> <p>➤ जहां तक भूमिगत जल का प्रश्न है तो, भूमिगत जल स्तर एवं</p>	<p>आधारभूत पर्यावरण गुणवत्ता निगरानी का कार्य सफलता पूर्वक संपन्न किया जा चुका है। इसके अतिरिक्त CMPDIL द्वारा हर 15 दिन के अंतराल में पर्यावरण गुणवत्ता निगरानी का कार्य नियमित रूपसे किया जाता है। और आगे भी जारी रहेगा। इसके अतिरिक्त, जल प्रदूषण रोकथाम हेतु विविध कार्य परियोजना प्रबंधन द्वारा विभागीय रूप से किया जा रहा है।</p>	यह कार्य वर्तमानमें किया जा रहा है।


क्र.	जनसामान्य द्वारा प्रस्तुत आपत्ति / सुझाव / टीका-टिप्पणी / अभिमत इत्यादि का विवरण	निराकरण के प्रस्ताव	बजट का प्रावधान	समय सीमा
		उसकी गुणवत्ता रिपोर्ट के अध्ययन से यह देखा जा सकता है की, भूमिगत जलस्तर पर खनन का कोई प्रतिकूल प्रभाव नहीं देखा गया है।		
37.	श्री मनोज सलाम (निवासी - हिरापल्ला) द्वारा लिखित रूप से विचार रखे गए की, हमारे गाँव में पानी की समस्या है, गाँव में पानी की टंकी लग जाए तो बहुत अरुच्य रहेगा, एवं बेरोजगार को काम मिल जाए।	<ul style="list-style-type: none"> <li>➤ जलापूर्ति के संबंध में यदि ग्राम सभा फरवरी 2023 के पहले इस विकास कार्य का प्रस्ताव देती है , तो ग्राम पंचायत से प्राप्त प्रस्ताव के अनुसार इसे Area CSR Committee के समक्ष रखा जाएगा, यदि वो सी एस आर पॉलिसी के अंतर्गत किए जा सकते हैं, तो उन्हें अगले वित्तीय वर्ष 2023-24 के सी एस आर एक्शन प्लान में सम्मिलित करने हेतु उचित कारवाई कि जाएगी।</li> <li>➤ अगस्त 2022 में पावर रिपोर्ट के अनुसार तवा - II भूमिगत खदान वर्तमान में 778 विभागीय कामगारों को रोजगार दे रही है। इसके अतिरिक्त खदान में कुल 230 ठेकेदारी कामगार भी कार्यरत हैं। इसके अतिरिक्त कॉल इंडिया द्वारा CIPET, भोपाल संस्था के साथ एमओयू के माध्यमसे वर्ष 2020-21 में Rs. 18.90 लाख की लागत से कुल 27 स्थानीय युवाओं एवं वर्ष 2022-23 में Rs. 70 लाख की लागत से दो चरणों में कुल 100 स्थानीय युवाओं को प्लास्टिक प्रोसेसिंग में मशीन ऑपरेटर की ट्रेनिंग दी जा रही है।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा कौशल विकास के क्षेत्र में वर्ष 2019-20 में 05 स्थानीय युवाओं को वेल्डर की ट्रेनिंग दी गई ।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा कौशल विकास के क्षेत्र में वर्ष 2019-20 में 13 स्थानीय युवाओं को मशीनिस्ट की ट्रेनिंग दी गई ।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा कौशल विकास के क्षेत्र में वर्ष 2019-20 में कुल 32 स्थानीय युवाओं को कॉल सेमपलिंग की ट्रेनिंग दी गई ।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा 2021 एवं 2022 में (जून 2022 तक) कुल 121 युवाओं को एपरेंटिस की ट्रेनिंग दी गई ।</li> <li>➤ वेकोलि, पाथाखेरा क्षेत्र द्वारा 2017 से 2022 (जून 2022 तक)</li> </ul>	सी एस आर एक्शन प्लान 2023-24 (यदि ग्रामसभा फरवरी 2023 तक इस विकास कार्य का प्रस्ताव देती है उस स्थितिमें)	31/03/2024 (यदि ग्रामसभा फरवरी 2023 तक इस विकास कार्य का प्रस्ताव देती है उस स्थितिमें)


क्र.	जनसामान्य द्वारा प्रस्तुत आपत्ति / सुझाव / टीका-टिप्पणी / अभिमत इत्यादि का विवरण	निराकरण के प्रस्ताव	बजट का प्रावधान	समय सीमा
		कुल 1034 ठेकेदारी कामगार युवाओं को VTC के माध्यम से कोयला खनन से जुड़ी विविध गतिविधियों की ट्रेनिंग दी गई। ➤ भविष्य में भी इस प्रकार के कौशल विकास के कार्यक्रम आयोजित किए जाएंगे।		
38.	श्री मदन (निवासी - शोभापुर) द्वारा लिखित रूप से विचार रखे गए की, खदान की वजहसे हमारे खेतों का जल नीचे तो नहीं जाएगा ?	➤ भूमिगत खदान में कोयला खनन का कार्य भू-जलस्तर के काफी नीचे होता है, इसलिए भू-जलस्तर पर असर नगण्य है। इसके अतिरिक्त प्रबंधन द्वारा प्रत्येक 3 माह के अंतराल में भूमिगत जल स्तर का मापन किया जाता है, जिसके परिणामों से यह देखा जा सकता है की, खदान से भूमिगत जल स्तर पर कोई अनुचित प्रभाव नहीं पड़ा है। ➤ इसके अतिरिक्त, उपरोक्त खदान में विस्तृत hydrological स्टडी की गई जिसमें खनन कार्य के प्रभाव एवं इसकी प्रबंधन योजना भी संमिलित की गई। जो की जनसुनवाई के दौरान प्रदर्शित की गई। भविष्य में समय समय पर उपरोक्त कार्य योजना के अनुसार उचित कदम उदाये जाएंगे।	यह कार्य परियोजना प्रबंधन द्वारा विभागीय रूप से किया जा रहा है।	यह कार्य वर्तमानमें किया जा रहा है।
39.	श्री धरमु मस्कोले (निवासी - रातामाटी) द्वारा लिखित रूप से विचार रखे गए की, मेरे पिताजी का एक्सीडेंट हुआ था, जिसके बाद उनकी मृत्यु हो गई, जिसका मुझे अभितक मुआवजा नहीं मिला है।	उपरोक्त व्यक्ति से निवेदन है की, अपनी समस्या विस्तृत रूप उचित तथ्यों के साथ परियोजना प्रबंधन दीजिए, उसपर उचित कार्यवाही की जाएगी।	लागू नहीं	लागू नहीं
40.	श्री राहुल उईके (निवासी - भोगईखापा) द्वारा लिखित रूप से विचार रखे गए की, हमारे गाँव हिरापल्ला एवं	हिरापल्ला गाँव में वर्ष 2020-21 में प्रबंधन द्वारा Rs. 12.30 लाख की लागत से सड़क का निर्माण कराया गया है। एवं वर्तमानमें यदि इस संबंध में यदि ग्राम सभा फरवरी 2023 के पहले इस विकास कार्य का	सी एस आर एक्शन प्लान 2023-24 (यदि ग्रामसभा फरवरी 2023 तक इस	31/03/2024 (यदि ग्रामसभा फरवरी 2023 तक इस विकास कार्य

क्र.	जनसामान्य द्वारा प्रस्तुत आपत्ति / सुझाव / टीका-टिप्पणी / अभिमत इत्यादि का विवरण	निराकरण के प्रस्ताव	बजट का प्रावधान	समय सीमा
	भोगईखापा के बीच रोड न बनाने के कारण दरसातमे आने जाने में दिक्कत होती है।	प्रस्ताव देती है , तां ग्राम पंचायत से प्राप्त प्रस्ताव के अनुसार इस Area CSR Committee के समक्ष रखा जाएगा, यदि वो सी एस आर पॉलिसी के अंतर्गत किए जा सकते हैं, तो उन्हें अगले वित्तिय वर्ष 2023-24 के सी एस आर एक्शन प्लान में शामिल करने हेतु उचित कारवाई कि जाएगी।	विकल्प कार्य का प्रस्ताव देती है उस स्थितिमें)	का प्रस्ताव देती है उस स्थितिमें)
41.	श्री कमलेश मोहने (निवासी-सलैगा) द्वारा निश्चित रूप से विचार रखे गए की, जो ठेका कामगार मजदूर कई सालोते खदानोमे सेवा दे रहे है, उन मजदूरों को नियमित करदिया जाए तो मे अल्प लोगों का आभारी रहूंगा।	ठेकेदारी कामगारों को नियमित करना एक नीतिगत मुद्दा है, यह जनसुनवाई पर्यावरण संबंधित समस्याओं पर लोगों के आपत्ति / सुझाव / टीका-टिप्पणी / अभिमत इत्यादि का निपटारा करने हेतु आयोजित की गई है, उपरोक्त मुद्दा वर्तमान विषय से संबंधित नहीं है।	लागू नहीं	लागू नहीं

  
 क्षेत्रीय पर्यवेक्षण अधिकारी  
 पाथाखेरा क्षेत्र

  
 क्षेत्रीय नोडल अधिकारी (सी.एस.आर.)  
 पाथाखेरा क्षेत्र

  
 क्षेत्रीय योजना अधिकारी  
 पाथाखेरा क्षेत्र

~~क्षेत्रीय मूलप्रबंधक  
 पाथाखेरा क्षेत्र~~ 

## Photos taken during the visit












 **GPS Map Camera**



**Gandhi Gram, Madhya Pradesh, भारत**

Tawa 2 mine, Gandhi Gram, Madhya Pradesh 460440, भारत

Lat 22.156367°

Long 78.190054°

16/07/23 10:25 AM GMT +05:30



Western Coalfields Limited  
मिनिरत्न कंपनी (A Miniratna Company)

कॉल इंडिया लिमिटेड की अनुबंधी कंपनी  
(A Subsidiary of Coal India Limited)

कार्यालय, उप क्षेत्रीय प्रबंधक, तवा - II उप क्षेत्र / Office of Sub Area Manager, Tawa - II Sub Area

Email: [agmpathakhera.wcl@coalindia.in](mailto:agmpathakhera.wcl@coalindia.in) Phone/FAX: 07146-270455 CINU10100MH1975GOI018626  
पंजीकृत कार्यालय - वेस्टर्न कॉलफील्ड्स लिमिटेड, पाथाखेरा क्षेत्र, 460449 Regd. Off: WESTERN COALFIELDS LIMITED, PATHAKHERA -460449

पत्र क्रमांक /Ref.No.: WCL/PKD /Tawa -II/2023 /3989 दिनांक / Date: 17/11/2023

प्रति,

1. Regional Officer,  
Integrated Regional Office (Bhopal),  
MOEF&CC,  
Kendriya Paryavaran Bhavan,  
Link Road No-03, E-5, Ravi Shankar  
Nagar, Bhopal - 462016 (M.P.)
2. Director (Monitoring Cell),  
MOEF&CC,  
Indira Paryavaran Bhavan,  
Jorbag Road, Aligunj  
New Delhi - 110003

विषय : Submission of Action Taken Report w.r.t. EC Compliance Certification Report / Monitoring Report issued by MoEF&CC, IRO - Bhopal in respect of Tawa - II UG Expansion Project (Existing EC Capacity 0.600 MTPA & Proposed EC Capacity 0.86 MTPA).

- संदर्भ: 1. MoEF&CC, IRO - Bhopal EC Compliance Certification Report / Monitoring Report No. : 3-50/2006(Env)/R-59/P-6 dated 01/11/2023
2. ToR No: J - 11015 / 53 / 2006 - IA. II (M) dated 08.01.2021 for Expansion of Tawa II UG mine for increase in production from 0.60 MTPA to 0.86 MTPA in an area of 523.75 ha (520 ha mining area + 3.75 ha for power line diversion)
  2. EC Revalidation Letter No: J - 11015 / 53 / 2006 - IA. II (M) dated 15.01.2021
  3. EC Letter No: J - 11015 / 53 / 2006 - IA. II(M) dated 02.08.2006

आदरणीय महोदय,

With reference to our EC Expansion Application to MoEF&CC (Existing EC Capacity 0.600 MTPA & Proposed EC Capacity 0.86 MTPA), An EC Compliance Certification Report / Monitoring Report has been issued by MoEF&CC, IRO - Bhopal vide Ref No. : 3-50/2006(Env)/R-59/P-6 dated 01/11/2023. Hence, In response of the above EC Compliance Certification Report / Monitoring Report, Please find attached herewith the duly signed Action Taken Report with relevant annexures.

Thanking You Sir.

भवदीय

17/11/23

उपक्षेत्रीय प्रबंधक,  
तवा - II उपक्षेत्र

संलग्न : यथोपरि  
प्रतिलिपी :

1. क्षेत्रीय महाप्रबंधक , पाथाखेडा क्षेत्र
2. महाप्रबंधक / विभागाध्यक्ष (पर्यावरण), वेकोलि मुख्यालय, नागपूर
3. क्षेत्रीय पर्यावरण अधिकारी, पाथाखेडा क्षेत्र

**Action Taken Report w.r.t. issues raised in certification report of EC compliance in respect of Tawa-II UG Expansion Coal Mine Project certified by Integrated Regional Office, MoEF&CC, Bhopal**

**Ref. No.: 3-50/2006(Env)/R-59/P-6 dated 01/11/2023**

**(Details of Project: Tawa-II UG Expansion Coal Mine Project (0.600 MTPA) of M/s. Western Coalfields Limited, Dist. Betul, Madhya Pradesh with a Project Area of 520.00 Ha)**

**i. Specific Conditions:**

<b>S. No.</b>	<b>EC Conditions</b>	<b>Remarks of MOEF &amp;CC, Regional office based on the compliance status furnished by project proponent and the on-field observations during the site visit</b>	<b>Action Plan Submitted by WCL</b>
<b>xii</b>	Besides carrying out regular periodic health check up of their workers, 10% of the workers identified from work force engaged in active mining operation shall be subjected to health check up for occupational diseases and hearing impairment, if any through an agency such as NIOH, Ahmedabad within a period of 1 year and the result reported to this ministry and to DGMS	<p>During the site visit, it was observed that personnel working in dust areas have been provided with dust masks and ear plugs. As per records furnished during the site visit, it was noted that, vocational training is being accorded to all mine workers (both department and contractual staff) on an annual basis.</p> <p>Every departmental worker less than 50 year is subjected to periodical medical examination once in every three years and Above 50 Year worker is subjected to periodical medical examination once in every year. The records are being maintained and submitted to DGMS on yearly basis in prescribed format.</p> <p>Besides, contractual employees are subjected to Initial medical examination at the time of deployment and periodical medical examination through the contractor.</p> <p>A separate PME Department in Hospital has been in</p>	<p>Personnel working in dust areas have been provided with dust masks and ear plugs.</p> <p>Regarding health checkup of the employees working in the mine, it is submitted that, as per the Mines Rule, 1955 &amp; Recommendations of National Safety Conferences Guidelines and DGMS Statute, IME &amp; PME of all workers (regular &amp; contractual) are conducted on regular basis.</p> <p>In connection with the above, WCL has constituted occupational Health Committee at the corporate level as well as at the unit level for regular health status monitoring of all employees.</p>

S. No.	EC Conditions	Remarks of MOEF &CC, Regional office based on the compliance status furnished by project proponent and the on-field observations during the site visit	Action Plan Submitted by WCL
		<p>existence to regularly monitor the Occupational Health related issues of Mine Workers.</p> <p>It was informed that, Medical Examination of 10.69 % Man power of Tawa – II UG Mine has been carried out through Government District Hospital, Betul.</p> <p>However, No study was initiated to monitor the health status of 10% of the workers identified from work force engaged in active mining operation for occupational diseases and hearing impairment through an institute of repute.</p> <p><b>In view of the information furnished by the Project Proponent and as per the site visit observations noted above, the stipulated condition is considered as partly complied w.r.t. said site visit.</b></p> <p><b>PARTLY COMPLIED</b></p>	<p>Initial Medical Examination (IME) is carried out compulsorily for both the Departmental and contractual employees during initial deployment in the mine/project.</p> <p>Thereafter, Periodical Medical Examination (PME) is carried out for every employee. The frequency of PME for employee less than 50 years age is carried out once in every three years and for employee above 50 Year age is subjected to examination once in every year.</p> <p>The above said IME &amp; PME records are being maintained and submitted to DGMS on yearly basis in prescribed format.</p> <p>As mentioned above, the IME &amp; PME are being carried out in compliance of Mines Rules and DGMS statute. In connection with that, WCL has established Hospitals at Administrative Area level and dispensaries at Unit/Project levels.</p> <p>At Pathakhera, Well equipped 60 bedded Area Hospital is established in year 1990 and is upgraded continuously with latest facilities as per requirement on regular basis.</p>

S. No.	EC Conditions	Remarks of MOEF &CC, Regional office based on the compliance status furnished by project proponent and the on-field observations during the site visit	Action Plan Submitted by WCL
			<p>The Area hospitals and dispensaries are managed by the qualified doctors having MBBS, specialization and super specializations in occupational health and other areas of medicine.</p> <p>The details of the setup at Pathakhera Area Hospital are as follows:</p> <ol style="list-style-type: none"> <li>1) State of the art facilities are provided in the hospital.</li> <li>2) 11 nos. of doctors and 46 paramedical staff engaged in the Hospital.</li> <li>3) Separate Deptt. is established for IME/PME related works and 3 nos. of doctors are posted along with supporting staff.</li> <li>4) 1 no. of X-Ray machine (500mA) of Allengers brand.</li> <li>5) 2 nos. of Biochemistry Autoanalyser of Transasia brand.</li> <li>6) 1 no. of C-Arm Image intensifier machine of Siemens brand.</li> <li>7) 1 nos. of Anaesthesia machine of Boyle brand.</li> <li>8) 1 nos. of Blood bank refrigerators of Remi brand.</li> <li>9) 1 nos. of web enabled Audiometer</li> </ol>

S. No.	EC Conditions	Remarks of MOEF &CC, Regional office based on the compliance status furnished by project proponent and the on-field observations during the site visit	Action Plan Submitted by WCL
			<p>units of Pure Tone brand  10) 1 nos. of web enabled Spirometer  11) 2 nos. of Multi-Channel type ECG machines of Bionet brand.  12) 3 nos. of Ambulance  13) Disposal of biomedical waste through authorized agency.</p> <p>During past 05 Years (2018-2022) PME of total 1288 No. of employees has been conducted by the Medical Services Department. <b>(Year wise details enclosed)</b></p> <p>Regarding occupational health status of the administrative Area, it may be mentioned here that, till date, no employee or person has been detected with occupational health issues viz. coal miners pneumoconiosis during the last 5 years.</p> <p>Beside the regular occupational health status monitoring, Occupational Health study of more than 10 % of Active manpower is being carried out through an institute of repute i.e. through Government District Hospital, Betul. The above Medical Examination include Physical Examinations, Skin &amp; Eye Examination, Ears Inspection,</p>

S. No.	ECConditions	Remarks of MOEF &CC, Regional office based on the compliance status furnished by project proponent and the on-field observations during the site visit	Action Taken Report Submitted by WCL
			<p>Respiratory System Examination, Genito-Urinary system examination, ECG, BP, R&amp;S &amp; Audiological Evaluation, etc. Copy of above health study Details enclosed</p> <p>In view of the above, it is requested to consider our ATR and to kindly consider the above condition as complied.</p>

*[Signature]*  
17/11/23

**Safety Officer**  
Tawa - II UG Mine

*[Signature]*  
17/10/23

**Environment Officer**  
Tawa - II UG Mine

*[Signature]*  
17/11/23

**Mine Manager**  
Tawa - II UG Mine

*[Signature]*  
12/11/23

**Sub Area Manager**  
Tawa - II UG Mine

*[Signature]*  
5/11/23

**Area Environment Officer**  
Pathakhera Area

*[Signature]*  
17/11/23

**Area Medical Officer**  
Pathakhera Area

*[Signature]*  
12/11/23


**Area General Manager**  
Pathakhera Area



**Western Coalfields Limited  
Tawa-II Mine Pathakhera Area**

**Record List of VTC and PME for the month of 2018 To 2022**

Year	VTC		PME	
	Target	Achieved	Target	Achieved
2018	150	152	271	352
2019	150	152	201	208
2020	140	131	220	140
2021	125	129	246	296
2022	130	129	273	292

  
1/2/23  
**Safety Officer  
Tawa-II Mine**



वेस्टर्न कोलफील्ड्स लिमिटेड  
Western Coalfields Limited  
( मिनिरल कम्पनी ) ( A Miniratan Company )  
कार्यालय उपक्षेत्रीय प्रबंधक  
Office of the Sub-Area Manager  
तवा-2 खदान, पाथाखेड़ा क्षेत्र



Ref.No:-WCL/PKD/SAM/TAWA-II MINE/2023/ 1988

Date:- 29/06/23

To,  
The Nodal Officer (Environment)  
Pathakhera Area.

Subject: -Information regarding successful conducting of Medical examination by District Hospital, Betul as per EC Conditions mentioned in letter with Reference no.- वेकोलि/प्रचिसे/2023/1604 दिनांक-04.01.2023.

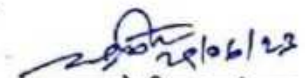
Dear Sir,

This is to inform you that health checkup of 10% of the workers identified from workforce engaged in active mining operation as per EC conditions was successfully conducted at District Hospital Betul.

Manpower as on (01.05.2023)	Health Checkup done	% of persons undergone Health Checkup.
701	75	10.699%

This is for your kind information and necessary action.

- Enclosed:- 1. Two sample copies of Health checkup.  
2. Letter No वेकोलि/प्रचिसे/2023/1604 दिनांक 04.01.2023.  
3. List of Candidates who undergone health checkup.

  
उपक्षेत्रीय प्रबंधक  
तवा 2 खान

Copy To :-

1. Colliery Manager, Tawa-II Mine
2. Safety Officer, Tawa-II Mine.
3. Office Copy.

# DISTRICT MEDICAL BOARD BETUL M.P.

Candidate must take the statements required below to his/her Medical Examination and must sign the declaration appended there to. His/her attention is specially directed to the warning contained in the note below. अभ्यर्थी मेडिकल बोर्ड में संलग्न प्रश्न पत्र स्वयं भरकर हस्ताक्षर करें



18945

1. State your full name **TATU MARŠKOLE**
2. State your age and birth place **40 Year - Male, BETUL**
3. Mobile Number **9407123291**



डॉ. अजित  
मेडिकल  
रजि. क्र. ए-  
जिला चिकि.

नीचे दिये गये कथन में हां या नहीं में उत्तर तथा आवश्यकता अनुसार विवरण दें

3(a). Have you ever had small-pox, intermittent or any other fever, enlargement or suppuration of glands, spitting of blood, asthma, heart disease, lung disease, fainting attacks, rheumatism, appendicitis ?

क्या आपके स्माल पोक्स या एक दिन छोड़कर बुखार आता है या थूक में खून/दमा/हृदय या फेफड़े की बीमारी/जोड़ों में दर्द/गिल्टी में सूजन या मवाद आता था?

नहीं

OR

3(b). Any other disease or accident requiring confinement to bed and medical or surgical treatment?

क्या आपको कभी कोई दुर्घटना या लंबी बीमारी के चलते मेडिकल/सर्जिकल वार्ड में उपचार हेतु भर्ती होना पड़ा?

नहीं

4. When were you last vaccinated?

Distrit Hospital का संस्थाकरण हुआ?  
An NQAS Certified Hospital

5. Have you or any of your near relations been afflicted with consumption, scrofula, gout, asthma, fits, epilepsy or insanity?

क्या आपको या आपके परिवार में किसी को मानसिक रोग/ गठिया वात/ मिर्गी/अस्थमा की बीमारी है?

नहीं

6. Have your suffered from any form of nervousness due to Overwork or any other cause?

क्या आप अधिक कार्य या किसी अन्य कारण से बैचेनी/ घबराहट से ग्रसित रहे हैं?

नहीं

7. FURNISH THE FOLLOWING PARTICULARS CONCERNING YOUR FAMILY

Father's age if living and state of Health <small>यदि पिता जीवित है तो उनकी उम्र तथा स्वास्थ्य की स्थिति।</small>	Father's age at death and Cause of death <small>मृत्यु के समय पिता की उम्र तथा मृत्यु का कारण</small>	No. of brothers living their age and state of Health <small>जीवित भाईयो की संख्या, उम्र तथा स्वास्थ्य की स्थिति</small>	No. of brothers dead, their ages at death and cause of death <small>मृत भाईयो की संख्या, मृत्यु के समय उनकी उम्र व मृत्यु का कारण</small>

Page 1 of 2

Mother's age if living and state of Health यदि माता जीवित है तो उनकी उम्र तथा स्वास्थ्य की स्थिति।	Mother's age at death and Cause of death मृत्यु के समय माता की उम्र तथा मृत्यु का कारण	No. of sisters living their age and state of Health जीवित बहनों की संख्या, उम्र तथा स्वास्थ्य की स्थिति	No. of sisters dead, their ages at death and cause of death मृत बहनों की संख्या, मृत्यु के समय उनकी उम्र व मृत्यु का कारण

8. Have you been examined by a medical Board before?

क्या आप इसके पूर्व कभी मेडिकल बोर्ड में उपस्थित हुये थे? हाँ / नहीं

नहीं

9. If answer to the above is 'Yes' Please state what service/services you were examined for?

यदि हाँ तो किस जगह व किस उद्देश्य के लिये?

10. Who was the examining authority?

परीक्षणकर्ता अधिकारी कौन थे?

11. When and where the medical Board was held?

कब और कहाँ मेडिकल बोर्ड में उपस्थित हुये

12. Result of the medical Board's examination, if communicated to you or if known?

District Hospital Betul  
An मेडिकल बोर्ड का परिणाम यदि आपको बताया गया हो या आपको ज्ञात हो।

All the above answers are to the best of my belief, true and correct.

TATU

Candidate's Signature  
TATU MARSKOLE  
S/O RAMALU MARSKOLE  
VIKRAMPUR TEH GHORADONGARI BETUL BETUL

TATU

Signed in my Presence

President  
Dist. Medical Board  
Betul (M.P.)

Signature of Chairman of Board  
DISTRICT MEDICAL BOARD BETUL M.P.

Date : 16/06/23

The candidate will be held responsible for the accuracy of the above statement. By willfully suppressing any information, he/she will incur the risk of losing the appointment and if appointed, of forfeiting all claims to superannuation allowance or gratuity.

# Govt. DISTRICT HOSPITAL BETUL (MP)

BETUL, M.P. 460001,  
Ph : 07141-230402, Kishor Help line 18002331250, For Emergency call 108



Annexure - B

## DISTRICT MEDICAL BOARD REPORT

Candidate Name : **TATU MARSKOLE**

Reg. No. Date : **18945 / 16-06-2023 10:21:22**

Father/Husband : **RAMALU MARSKOLE**

Address : **VIKRAMPUR TEH GHORADONG**

Age, Sex, Caste : **40 Year - Male (ST)**

City / Village : **BETUL**

Mobile Number : **9407123291**

### 1. PHYSICAL EXAMINATIONS

General Development

Good

Fair

Poor

Nutrition

: Thin

Average

Obese

Height (without shoes)

: Height : **1.68** cm.

Weight : **58** Kg.

Any recent change in weight ?

:

Temperature : \_\_\_\_\_

Girth of chest

: a. After full Inspiration \_\_\_\_\_

b. After full Expiration \_\_\_\_\_

: Any obvious disease : \_\_\_\_\_

### 2. SKIN

### 3. EYES

: Any Disease

1. Night Blindness

2. Defect in colour vision

3. Field of vision

4. Visual acuity

Acuity of Vision

: Naked Eye

With Glasses

Strength of glasses

Spl.

Cyl.

Ois.

RE

LE

Near Vision

:

RE

LE

Distant Vision

:

### 4. EARS INSPECTION

: Hearing Right Ear : \_\_\_\_\_

Hearing Left Ear : \_\_\_\_\_

### 5. GLANDS

: Thyroid

### 6. CONDITION OF TEETH

:

### 7. RESPIRATORY SYSTEM

: Does physical examination reveal anything abnormal in the respiratory organs,  
If yes, explain fully

**LABORATORY SYSTEM**

Heart sound - S1 ..... S2

Heart Rate : Standing 64/mt

Murmur

after hopping 28 times 66/mt

(b) 2 minutes after hopping 76/mt

(c) Blood Pressure Systolic 146 Diastolic 90

9. Abdomen Girth \_\_\_\_\_ cm. Tenderness \_\_\_\_\_ Hernia \_\_\_\_\_  
(a) Palpable : Liver \_\_\_\_\_ Spleen \_\_\_\_\_ Kidneys \_\_\_\_\_  
Tumours \_\_\_\_\_ (b) Hemorrhoids \_\_\_\_\_ Fistula \_\_\_\_\_

10. Nervous system Indication of nervous or mental disabilities : \_\_\_\_\_

11. Locomotor system : Any abnormality : \_\_\_\_\_

12. Genito Urinary systems any evidence of hydrocele Vericocele etc. Urine analysis

(a) Physical appearance (c) Albumen - Nil (e) Cysts (g) UPT if Indicated  
(b) Specific gravity (d) Sugar - Nil (f) Cells

13. Report of screening / X-ray

Examination of chest : OK  
- USG etc. indicated

14. If there is anything in the health or the candidate likely to render in anything in the health him / her unfit for the efficient discharge of him/her duties in the service for which he/she is a candidate

15. (I) Has the candidate been found qualified in all respects for the efficient and continuous discharge of his/her duties in the service for which he/she is a candidate YES / NO

District Hospital Betul  
An NQAS Certified Hospital

(II) Is the candidate fit for FIELD SERVICE YES / NO

16. Any Other Investigation, if required : \_\_\_\_\_

17. Gynaecological Examination :

18. The Candidate is (A) FIT \_\_\_\_\_  
(B) UNFIT on account of \_\_\_\_\_  
(C) Temporarily UNFIT on account of \_\_\_\_\_

Tatu  
Signature (TATU MARSKOLE - RAMALU MARSKOLE)  
Medical Officer  
District Hospital  
Ophthalmologist

Sign and Seal of Gynaecologist  
Sign and Seal of R.M.O.

President  
District Medical Board  
District Hospital Betul

PLACE : BETUL, Date : \_\_\_\_\_

# Govt. DISTRICT HOSPITAL BETUL (MP)



BETUL, M.P. 460001,  
Ph : 07141-230402, Kishor Help line 18002331250, For Emergency call 108

## OUTDOOR PATIENT TICKET

Patient's Name : TATU MARSKOLE - RAMALU MARSK Registration No. : 18945  
 Age and Sex : 40 Year - Male (ST) Reg. Date, Time : 16-06-2023 Fri, 10:21:22  
 Address : VIKRAMPUR TEH GHORADONGARI B Scheme Details : APL ₹ 15 ADHAR NO 5750 2775 2725  
 Prov. Diagnosis : Medical Certificate Referred From : -  
 Contact No. : 9407123291 MLC Case : No Sent to Dept. :

### Investigations Advised

- ECG
- USG
- X-Ray
- BMP
- Acid-fast bacillus (AFB)
- CBC
- Hb
- T and D
- Platelets Count
- ESR
- Blood group - Rh Factor
- BTOT
- Blood Sugar Fasting
- Blood Sugar P.P.
- Blood Sugar R.
- Serum Creatinine
- Blood Urea
- Serum Bilirubin
- Uric Acid
- WIDAL Test
- Aust. Antigen (HbSag)
- Urine Pregnancy Test
- Urine Test R and M

### Brief History :

G/E

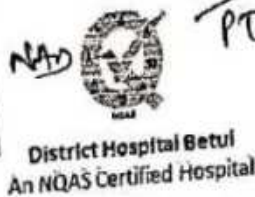
Presumptive / Definite Diagnosis :

Rx

Treatment Advised  
Dose Schedule Duration

Medicine

Ears  
Nose  
Throat



BP - 146/90

P - 64

RBS - 111 mg/dl

ECG done

Urine 2 Alb - Nil  
                  Sug - Nil

Revisit after \_\_\_\_\_ Days.

राष्ट्रीय पल्ला पोलियो अभियान - 28 जनवरी एवं 11 मार्च 2018

Activel Model : 16-06-2023 10:24:36

IT Services by: Vision Advisory Services (P) Ltd. | www.visionadvisory.in | yashdmail@gmail.com | Mob: 9300000090

Sewa

बिला विकासालय बेटुल (म.प्र.) - नि:शुल्क दवा वितरण केंद्र

Rx

Reg. No. / Date : 18945 16-06-2023 Fri, 10:21:22  
 Patient's Details : TATU MARSKOLE - RAMALU MARSKOLE  
 Age - Scheme : 40 Year - Male, APL ADHAR NO 5750 2775 272  
 Address : VIKRAMPUR TEH GHORADONGARI BETUL B  
 Pro. Diagnos. - Dept. : Medical Certificate -

नोट : यह पत्र केवल 10 दिनों तक मान्य रहेगा।

# जिला विकलांग पुनर्वास केंद्र

DISTRICT DISABILITY REHABILITATION CENTRE

(सामाजिक न्याय विभाग द्वारा संचालित)

जिला अस्पताल परिसर, बैतूल - 460001 (म.प्र.)

फोन नं - 07141-

## AUDIOLOGICAL EVALUATION

Name: Tatu/Ramulu

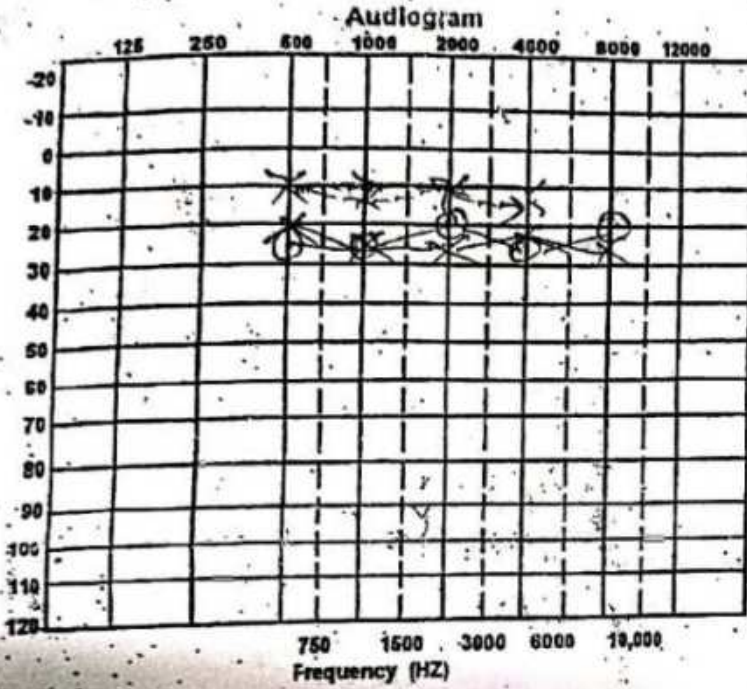
Age/Sex: 40/M

Date: 16-6-2023

Reg.No.:

Test No.:

Tested By: R



Right	A.C.	Left
O	Unmasked	X
Δ	Masked	□
	No Response	
P	Unmasked	X
Δ	Masked	□
B. C.		
<	Unmasked	>
	Masked	
	No Response	
∫	Unmasked	∫
	Masked	
	Sound filed	
Unaided		S
Aided		A
No Respons		I

### Speech Audiometry

Test	PTA	SRT	SDS
EAR			
Right	23-33		
Left	23-33		

### SCREENING AUDITORY RESPONSES

- I Startle Response P/A
- II Heart Rate - P/A
- III Aural palpabral Reflex P/A
- IV Eye blink P/A
- V Cry - P/A
- VI Cessation of Activity P/A
- VII Eye widening - P/A
- VIII Local Sation - P/A
- IX Others

### AUDIOMETER :-

Toning fork Test weber

Rt.....

[ ].....

[ ].....

[ ].....

(X) Response to Ling

7 Sounds

(a) - P/A

(i) - P/A

(4) - P/A

(5) - P/A

(5) - P/A

(iii), (n) - P/A

*Pld Bilal, Sand...*

**CANDIDATE'S STATEMENT AND DECLARATION FOR  
DISTRICT MEDICAL BOARD BETUL M.P.**

The candidate must take the statements required below to his/her Medical Examination and must sign the declaration appended there to. His/her attention is specially directed to the warning contained in the note below. अभ्यर्थी मेडिकल बोर्ड में सहास्र घोषणा पत्र स्वयं भरकर हस्ताक्षर करें

1. State your full name **RAKESH KUMAR BHALAVI**
2. State your age and birth place **35 Year - Male, BETUL**
3. Mobile Number **7828307305**



डॉ. आ. क. ल. वि. म.  
मेडिकल ऑफिसर  
रजि. क्र. ९...  
जिला चिकित्सालय, बटुल

नीचे दिये गये कालम में हां या नहीं में उत्तर तथा आवश्यकता अनुसार विवरण दें

3(a). Have you ever had small-pox, intermitent or any other fever, enlargement or suppuration of glands, spitting of blood, asthma, heart disease, lung disease, fainting attacks, rheumatism, appendicitis ?  
क्या आपके स्माल पाक्स या एक दिन छोड़कर बुखार आता है या शुक में खून/दमा/हृदय या फेफड़े की बीमारी/जोड़ों में दर्द/गिल्टी में सूजन या मवाद आता था?  
.....  
नहीं

OR

3(b). Any other disease or accident requiring confinement to bed and medical or surgical treatment?  
क्या आपको कभी कोई दुर्घटना या लंबी बीमारी के चलते मेडिकल/सर्जिकल बार्ड में उपचार देना पड़ा?  
.....  
नहीं

4. When were you last vaccinated?  
Diseases treated at  
An NQAS Certified Hospital  
क्या आपका अंतिम टीकाकरण हुआ?  
.....  
नहीं

5. Have you or any of your near relations been afflicted with consumption, scrofula, gout, asthma, fits, epilepsy or insanity?  
क्या आपको या आपके परिवार में किसी को मानसिक रोग/गठिया बात/मिर्गी/अस्थमा की बीमारी है?  
.....  
नहीं

6. Have you suffered from any form of nervousness due to Overwork or any other cause?  
क्या आप अधिक कार्य या किसी अन्य कारण से बेचैनी/घबराहट से ग्रसित रहे हैं?  
.....  
नहीं

**7. FURNISH THE FOLLOWING PARTICULARS CONCERNING YOUR FAMILY**

Father's age if living and state of Health यदि पिता जीवित है तो उनकी उम्र तथा स्वास्थ्य की स्थिति।	Father's age at death and Cause of death मृत्यु के समय पिता की उम्र तथा मृत्यु का कारण	No. of brothers living their age and state of Health जीवित भाईयों की संख्या, उम्र तथा स्वास्थ्य की स्थिति	No. of brothers dead, their ages at death and cause of death मृत भाईयों की संख्या, मृत्यु के समय उनकी उम्र व मृत्यु का कारण

Mother's age if living and state of Health यदि माता जीवित है तो उनकी उम्र तथा स्वास्थ्य बंदे स्थिति।	Mother's age at death and Cause of death मृत्यु के समय माता की उम्र तथा मृत्यु का कारण	No. of sisters living their age and state of Health जीवित बहनों की संख्या, उम्र तथा स्वास्थ्य की स्थिति	No of sisters dead, their ages at death and cause of death मृत बहनों की संख्या, मृत्यु के समय उनकी उम्र व मृत्यु का कारण

8. Have you been examined by a medical Board before? क्या आप इसके पूर्व कभी मेडिकल बोर्ड में उपस्थित हुये थे? हां / नहीं
9. If answer to the above is 'Yes' Please state what service/services you were examined for? यदि हां तो किस जगह व किस उद्देश्य के लिये?
10. Who was the examining authority? परीक्षणकर्ता अधिकारी कौन थे?
11. When and where the medical Board was held? कब और कहाँ मेडिकल बोर्ड में उपस्थित हुये?
12. Result of the medical Board's examination, if communicated to you or if known? यदि मेडिकल बोर्ड का परिणाम आपको बताया गया हो या आपके ज्ञात हो।

नहीं

All the above answers are to the best of my belief, true and correct.

राकेश कुमार भलवा  
Candidate's Signature  
RAKESH KUMAR BHALAVI  
S/O SEVARAM BHALAVI  
SHOBHAPUR COLONY SARNI TEH GHORADONGARI B

राकेश कुमार भलवा  
Signed In my Presence

[Signature]  
President  
Distt. Medical Board  
Betul (M.P.)

Signature of Chairman of Board  
DISTRICT MEDICAL BOARD BETUL M.P.

Date: 16/06/23

The candidate will be held responsible for the accuracy of the above statement. By willfully suppressing any information, he/she will incur the risk of losing the appointment and if appointed, of forfeiting all claims to superannuation allowance or gratuity.

Form Fees : APL ₹ 20 ADHAR NO 607363316336

18946 Ashvini Mahade - 16-06-2023 10:31:27 Page 2 of 2

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# Govt. DISTRICT HOSPITAL BETUL (MP)

BETUL, M.P. 460001,  
Ph : 07141-230402, Kishor Help line 18002331250, For Emergency call 108



Annexure - B

## DISTRICT MEDICAL BOARD REPORT

Candidate Name : RAKESH KUMAR BHALAVI Reg. No. Date : 18946 / 16-06-2023 10:27:25  
 Father/Husband : SEVARAM BHALAVI Address : SHOHAPUR COLONY SARNITHI  
 Age, Sex, Caste : 35 Year - Male (ST) City / Village : BRTUL  
 Mobile Number : 7828307305

### 1. PHYSICAL EXAMINATIONS

General Development : Good Fair Poor  
 Nutrition : Thin Average Obese  
 Height (without shoes) : Height : 169 cm. Weight : 56 Kg.  
 Any recent change in weight ? :  
 Girth of chest : a. After full Inspiration \_\_\_\_\_  
 b. After full Expiration \_\_\_\_\_  
 : Any obvious disease : \_\_\_\_\_

### 2. SKIN

### 3. EYES

: Any Disease  
 1. Night Blindness \_\_\_\_\_  
 2. Defect in colour vision \_\_\_\_\_  
 3. Field of vision \_\_\_\_\_  
 4. Visual acuity \_\_\_\_\_

Acuity of Vision	Naked Eye	With Glasses	Strenght of glasses		
			Spl.	Cyl.	Ois.
R/E					
L/E					
Near Vision					
Distant Vision	R/E 6/6p L/E 6/6p	Ad Refractive			

### 4. EARS INSPECTION

: Hearing Right Ear : \_\_\_\_\_  
 Hearing Left Ear : \_\_\_\_\_

### 5. GLANDS

: Thyroid

### 6. CONDITION OF TEETH

:

### 7. RESPIRATORY SYSTEM

: Does physical examination reveal anything abnormal in the respiratory organs, If yes, explain fully

**CIRCULATORY SYSTEM**

(a) Heart sound - S1 ..... S2 ..... Murmur after hopping 28 times 114/nt  
(b) Heart Rate : Standing 112/nt  
(c) 2 minutes after hopping 122/nt  
(d) Blood Pressure Systolic 124 Diastolic 76

9. Abdomen Girth \_\_\_\_\_ cm. Tenderness \_\_\_\_\_ Hernia \_\_\_\_\_  
(a) Palpable : Liver \_\_\_\_\_ Spleen \_\_\_\_\_ Kidneys \_\_\_\_\_  
          Tumours \_\_\_\_\_ (b) Haemorrhoids \_\_\_\_\_ Fistula \_\_\_\_\_

10. Nervous system Indication of nervous or mental disabilities : \_\_\_\_\_

11. Locomotor system : Any abnormality : None

12. Genito Urinary systems any evidence of hydrocele Varicocele etc. Urine analysis

(a) Physical appearance (c) Albumen Nil (e) Cysts (g) UPT if Indicated  
(b) Specific gravity (d) Sugar Nil (f) Cells

13. Report of screening / X-ray Examination of chest : \_\_\_\_\_  
USG erl. indicated \_\_\_\_\_

14. If there is anything in the health or the candidate likely to render in anything in the health him / her unfit for the efficient discharge of him/her duties in the service for which he/she is a candidate

15. (i) Has the candidate been found qualified in all respects for the efficient and contineous discharge of his/her duties **YES / NO**

**Distt Hospital Betul**  
An NQAS Certified Hospital

(ii) Is the candidate fit for FIELD SERVICE **YES / NO**

16. Any Other Investigation, if required : \_\_\_\_\_

17. Gynaecological Examination : \_\_\_\_\_

18. The Candidate is (A) FIT \_\_\_\_\_  
(B) UNFIT on account of \_\_\_\_\_  
(C) Temporarily UNFIT on account of \_\_\_\_\_

रकेश कुमार भलावी  
Signature (RAKESH KUMAR BHALAVI - SEVARAM BHALAVI)

डॉ. सागर मलवीय  
Sign and Seal of  
Medical Specialist  
रजि. नं. एम. 41-6467  
जिला मेडिकल अधिकारी

डॉ. विनोद बडे  
Sign and Seal of  
Ophthalmologist  
रजि. नं. 13533

[Signature]  
Sign and Seal of  
Gynaecologist  
R.M.O.

PLACE : BETUL, Date : \_\_\_\_\_

[Signature]  
President  
District Medical Board  
District Hospital BETUL



# Govt. DISTRICT HOSPITAL BETUL (MP)

Rogi Kalyan Samiti

BETUL, M.P. 460001,  
Ph : 07141-230402, Kishor Help line 18002331250, For Emergency call 108



## OUTDOOR PATIENT TICKET



Patient's Name : RAKESH KUMAR BHALAVI - SEVARA Registration No. : 18946  
 Age and Sex : 35 Year - Male (ST) Reg. Date, Time : 16-06-2023 Fri, 10:27:25  
 Address : SHOBHAPUR COLONY SARNI TEH GII Scheme Details : APL ₹ 15 ADHAR NO 607363316336  
 Prov. Diagnosis : Medical Certificate Referred From :  
 Contact No. : 7828307305 MLC Case : No Sent to Dept. :

### Investigations Advised

- ECG
- USG
- X-Ray
- BMP
- Acid-fast bacillus (AFB)
- CBC
- Hb
- T and D
- Platelets Count
- ESR
- Blood group - Rh Factor
- BTCT
- Blood Sugar Fasting
- Blood Sugar P.P.
- Blood Sugar R.
- Serum Creatinine
- Blood Urea
- Serum Bilirubin
- Uric Acid
- WIDAL Test
- Aust. Antigen (HbSag)
- Urine Pregnancy Test
- Urine Test R and M

### Brief History :

G/E

Presumptive / Definite Diagnosis :

Rx

### Treatment Advised

Medicine	Dose	Schedule	Duration
----------	------	----------	----------

Ear Note Throat

NAD

ADD PTA

District Hospital Betul  
An NQAS Certified Hospital

BP - 124/76  
P - 112  
RBS - 96 mg/dl  
ECG - done  
Urine - Alb - Nil  
                  sug - Nil

Revisit after \_\_\_\_\_ Days.

Achiva Masode - 16-06-2023 10:31:25

राष्ट्रीय पत्र पोलियो अभियान - 28 जनवरी एवं 11 मार्च 2018

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Sewa

जिला चिकित्सालय बैतुल (म.प्र.) - नि:शुल्क दवा वितरण केंद्र



Rx

Reg. No. / Date : 18946 16-06-2023 Fri, 10:27:25  
 Patient's Details : RAKESH KUMAR BHALAVI - SEVARAM BHAL  
 Age - Scheme : 35 Year - Male, APL ADHAR NO 607363316336  
 Address : SHOBHAPUR COLONY SARNI TEH GHORADO  
 Pro. Diagnos. - Dept. : Medical Certificate -

नोट : यह पर्चा केवल 10 दिवस तक मान्य रहेगा।



# वेस्टर्न कोलफील्ड्स लिमिटेड

Western Coalfields Limited

(मिनीरल कंपनी) (A Miniratna Company)  
(कोल इंडिया लि. की अनुबन्धी कंपनी)

(A Subsidiary of Coal India Limited)



प्रमुख (विक्रित्वा सेवाये) का कार्यालय  
email- emswcl.wcl@coalindia.in  
CIN - U10100MH1975GOI018626

Office of Chief of Medical Services  
☎ / FAX: 0712 - 2511982/2510720  
Website: www.westerncoal.nic.in

पंजी. का. : कोयला विहार, सिविल लाइन्स, नागपुर (महाराष्ट्र)-440001 / Regd. Off. : Coal Estate, Civil Lines, Nagpur(MS) - 440001

संख्या: नाग/वेकोलि/पचिसे/2023/1604 .

दिनांक : 04/01/2023

To,  
AMO,  
Pathakhera Area, WCL

Subject: Guidance regarding Action Plan for conducting Health Checkup of 10% Active mining workforce of TAWA II UG Mine by agency like NIOH, Ahmadabad

Madam,

In reference to the mentioned subject, please find below the remark of WCL Medical Department.

S.N.	EC Conditions	Compliance status as furnished by project proponent	Remarks of MOEF & CC, Regional office based on the compliance status furnished by project proponent and the on-field observations during the site visit	Remark of Medical Department WCL
xii.	Besides carrying out regular periodic health check up of their workers, 10% of the workers identified from work force engaged in active mining operation shall be subjected to health check up for occupational diseases and hearing impairment, if any through an agency such as NIOH, Ahmedabad within a period of 1 year and the result reported to this ministry and to DGMS records are maintained and submitted to DGMS.	Total 781 workers are employed in Tawa - II UG mine and periodic medical Examination (PME) of all employees are being carried once in every 5 years as per the DGMS guidelines and records are maintained and submitted to DGMS. During PME the patient are subjected to a complete clinical examination (including vision and hearing) Radiological examination of chest and routine examination of blood and urine. In case of any abnormality is detected during the course of above examination, further investigation is carried out and treatment given as required. WCL has got a team of specialist trained in coal miners pneumoconiosis to take care of the disease and subsequent	During the site visit, it was observed that personnel working in dust areas have been provided with dust masks and ear plugs. As per records furnished during the site visit, it was noted that vocational training is being accorded to all mine workers (both department and contractual staff) on an annual basis. As per records furnished during the site visit, it was noted that every departmental worker less than 50 years is subjected to periodical medical examination once in every three years and Above 50 Year worker is subjected to periodical medical examination once in every year. The records are being maintained and submitted to DGMS on yearly basis in prescribed format, i.e. Form (O) under Rule 29F(2) and 29 L under Mines (Amendment) Rules, 1978 for Initial Medical Examination & Periodical Medical Examination. Besides, contractual employees are subjected to Initial medical examination at	PME & IME of all workers (regular & contractual) are conducted as per Mines Rule, 1955 & Recommendations of National Safety Conferences Guidelines. However as per the information suggested by Project Proponent & as per the site visit observations health check up for occupational diseases & hearing impairment can be conducted by State Authorities at Hospital of Madhya Pradesh, for the 10% identified workers.

*[Handwritten signature]*  
4/1/2023

		<p>treatment. WCL is having occupational Health Committee at the corporate level as well as at the unit level for regular health status monitoring of all Employees. In Pathakhera Area, A 60 bedded hospital with 05 doctors and 45 paramedical staff are being provided exclusively to cater the round the clock Medical Services to WCL Employees. during the site visit, it was noted that every departmental worker less than 50 years is subjected to periodical medical examination once in every three years and Above 50 Year worker is subjected to periodical medical examination once in every year. The records are being maintained and submitted to DGMS on yearly basis in prescribed format, i.e. Form (O) under Rule 29F(2) and 29 L under Mines (Amendment) Rules, 1978 for Initial Medical Examination &amp; Periodical Medical Examination.</p>	<p>the time of deployment and periodical medical examination through the contractor. WCL is having occupational Health Committee at the corporate level as well as at the unit level for regular health status monitoring of all employees. In Pathakhera Area, a 60 bedded hospital with 05 doctors and 45 paramedical staff is in place to cater the round the clock medical Services to WCL Employees. A separate PME Department in Hospital has been in existence to regularly monitor the Occupational Health related issues of Mine Workers. As per the internal health monitoring records, no person has been detected with coal miners pneumoconiosis during the last 5 years. However, no study was initiated to monitor the health status of 10% of the workers identified from work force engaged in active mining operation for occupational diseases and hearing impairment through an institute of repute. In view of the information furnished by the Project Proponent and as per the site visit observations noted above, the stipulated condition is considered as partly complied w.r.t. said site visit.</p> <p><b>PARTLY COMPLIED</b></p>	
--	--	--	--	--

  
 04/11/2023  
 Chief of Medical Services (I/c)  
 WCL

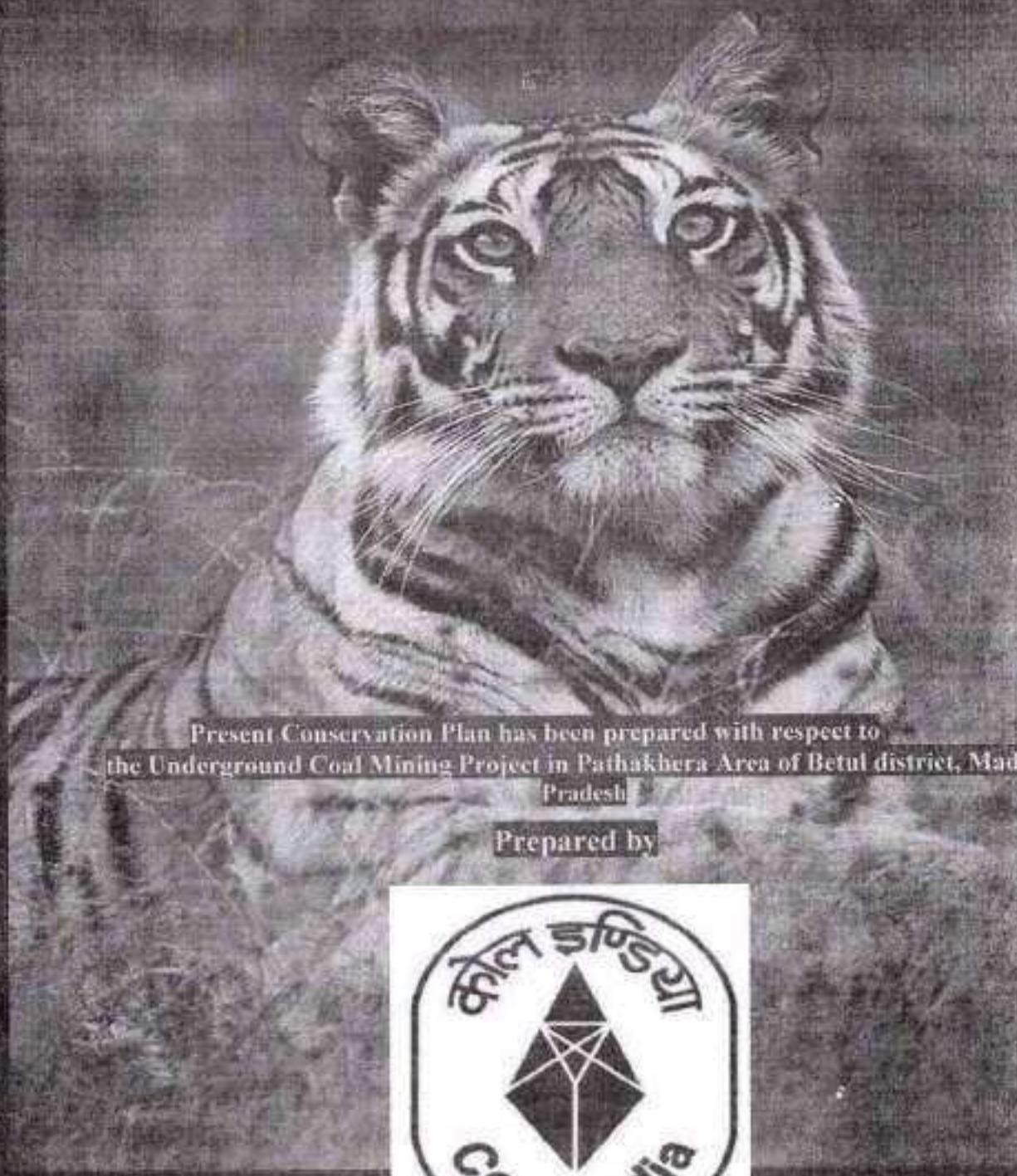
## Medical Examination from District Hospital Betul

S.no	Name	T.no	NEIS No.	Date OF PME	Fit/Unfit	Reason of unfit	Remark
1	Vipin Jamesh	1602	24007424	29.05.23	Fit		
2	Mohit Yadav	699	24006082	29.05.23	Fit		
3	Ganesh Kashyap	1046	24007620	29.05.23	Fit		
4	Mohit Kumar Singh	1248	24008307	29.05.23	Fit		
5	Gokul Wamankar	501	24005456	29.05.23	Fit		
6	Raju Chauhan	873	24007171	29.05.23	Fit		
7	Omprakash Jharkhande	240	31700069	29.05.23	Fit		
8	Chandrakishor Narware	893	24007246	29.05.23	Fit		
9	Mukesh Marskole	1266	24008541	29.05.23	Temp.Unfit		
10	Shekh Riyaj	786	24007142	29.05.23	Temp.Unfit	Vision	
11	Rakesh Chakrawarti	695	24006061	29.05.23	Fit		
12	Mukesh Kumare Sahu	1247	24008346	30.05.23	Fit		
13	Anil Knojiya	1136	24007676	30.05.23	Fit		
14	Ashish Wankhede	982	29000564	30.05.23	Fit		
15	Sunil Kakde	1005	24007604	30.05.23	Fit		
16	Sandeep Bachle	224	24003683	30.05.23	Fit		
17	Jitendra Kumar sahu	903	24007166	30.05.23	Fit		
18	litesh Nagwanshi	1389	24008608	30.05.23	Fit		
19	Sathya Seelan	973	24007490	30.05.23	Fit		
20	Shailendra Khobragade	992	24007392	30.05.23	Fit		
21	Ashraf Khan	936	24006012	30.05.23	Fit		
22	Kumarkant Naag	1271	24008430	30.05.23	Fit		
23	Ashraf Khan	967	24007390	30.05.23	Fit		
24	Ravindra Bobde	1018	24007612	30.05.23	Fit		
25	Rajendra	1150	24007927	31.05.23	Temp.Unfit	Vision	
26	Manish	1098	24007779	31.05.23	Fit		
27	Rajendra	1394	24008640	31.05.23	Fit		
28	Jeevan Hajare	947	24007188	31.05.23	fit		
29	Tularam	1317	24007434	31.05.23	Fit		
30	Rakesh sethiya	1202	24008154	31.05.23	Fit		
31	Sunil Kumar	1428	27000526	31.05.23	Fit		
32	Ankur Chaturvedi	1196	24008092	31.05.23	Fit		
33	Rakhiram Chandrawanshi	4471	58000651	31.05.23	Fit		
34	Sunil Kuma Surywanshi	664	25920175	31.05.23	Fit		
35	Ajay Kumar	1493	24007431	31.05.23	Temp.Unfit	Vision	
36	Abhishek Deshmukh	1133	24007875	31.05.23	fit		
37	Sambhu singh	956	29000561	01.06.23	Temp.Unfit	Vision	
38	Mukesh Yadav	697	25920221	01.06.23	Fit		
39	Nand kishor Tumdam	622	19109644	01.06.23	Fit		
40	Rajkumar Yadav	1107	24007820	01.06.23	Fit		
41	Subhash	1180	24006084	01.06.23	Fit		
42	Rajesh Yaduwanshi	881	24007172	01.06.23	Fit		
43	Ankur Dutta	1196	24008092	01.06.23	Fit		
44	Sanjay Yadav	1217	24008148	01.06.23	Temp.Unfit	Vision	
45	Rajpal Sindhiya	1269	24008428	01.06.23	Fit		
46	Karu	1285	19384353	01.06.23	Temp.Unfit	Vision	
47	Arun Kumar	736	24007135	01.06.23	Temp.Unfit	Vision	
48	Krishna Mishra	927	29000491	01.06.23	Fit		
49	Santlal	1105	24007806	02.06.23	Fit		
50	Pravin Riwatkar	1102	24007808	02.06.23	Fit		
51	Ashok kumar Uikey	1411	28004802	02.06.23	Fit		
52	Shailendra	892	24007252	02.06.23	Fit		
53	Rohit Nirapure	1735	58000361	02.06.23	Fit		
54	Subhakar Virla	963	24007382	02.06.23	Temp.Unfit	Vision	
55	Durgesh Kumar	1738	29001232	02.06.23	Fit		
56	Israfil	1730	24008846	02.06.23	Fit		
57	Balkishan	1392	19388586	02.06.23	Fit		
58	Anil Chadokar	199	19385608	02.06.23	Fit		

59	Hemant Kumar	15	24001216	02.06.23	Temp.Unfit	BP	
60	Gurdu Waikar	401	19108349	02.06.23	Temp.Unfit	Vision	
61	Shiv Kumar Dhurve	1179	25920696	16.06.23	Fit		
62	Abhishek Sharma	1246	24008237	16.06.23	Fit		
63	Sunil Barkade	1742	58000620	16.06.23	Fit		
64	Shravan	1453	24008781	16.06.23	Fit		
65	Ramsingh	980	24007491	16.06.23	Fit		
66	Basant Kumar Choure	1282	24008564	16.06.23	Fit		
67	Tapas	1128	24007869	16.06.23	Fit		
68	Tatu	1608	24007102	16.06.23	Fit		
69	Rakesh Uprale	1648	19171883	16.06.23	Fit		
70	Anand Uprale	803	24007147	16.06.23	Fit		
71	Dinesh Solanki	1270	24008429	16.06.23	Fit		
72	Necraj Kumar Pal	917	24007202	16.06.23	Fit		
73	Mahesh Padve	1021	24007501	16.06.23	Fit		
74	Rakesh Kumar Bhalavi	1739	29001192	16.06.23	Fit		
75	Mangesh Yesekar	961	24007380	16.06.23	Fit		

N.O (Exam) R.P. S.W.H. H.C.

CONSERVATION PLAN OF SCHEDULE-I SPECIES  
FOUND IN STUDY AREA OF TAWA-II UG MINE OF PATHAKHERA AREA WCL  
DISTRICT BETUL, MADHYA PRADESH, INDIA



Present Conservation Plan has been prepared with respect to  
the Underground Coal Mining Project in Pathakhera Area of Betul district, Madhya  
Pradesh

Prepared by



Western Coal Fields Ltd Nagpur 2022

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## 1. Introduction

Biodiversity conservation plan is developed with the aim to reduce adverse impact on the natural habitat of various wild animals. Day by day issues related to the threats to natural terrestrial and aquatic ecosystems arises due to high anthropogenic activities and loss of natural habitat due to climate change.

Today, when wildlife habitats are under severe pressure and a large number of species of wild fauna have become endangered, the effective conservation of wild animals is of great significance. Because every one of us depends on plants and animals for all vital components of our welfare. Presence or absence of an animal or plant in a region is determined by ecological and historical factors. Animals and plants are living indicators of the characteristics of their environment; their ranges mark the places where environmental conditions are the same or similar. To interpret the range of a species properly, it is necessary to know, in detail, the conditions required for the species to live and thrive (Hundal, 2004).

Conservation is the practice of protecting wild plant and animal species and their habitats. The goal of wildlife conservation is to ensure that nature will be around for future generations to enjoy and also to recognize the importance of wildlife and wilderness for humans and other species alike (CARE, 2012).

A conservation plan is needed for the conservation of critical habitats of wildlife and endangered and Schedule-I species along with their scientific management strategy. During the mining and activities related to it, natural resources (Land, Biodiversity, Forest, animals and Humans) are likely to exert tremendous pressure due to various activities in the respective region while the present management plan will ensure mitigation of such impacts.

### History of Wildlife Conservation in Madhya Pradesh

Madhya Pradesh state is located in the geographic heart of India, between **latitude 21.8° N - 26.87° N and longitude 74°59' E - 82°06' E**. Madhya Pradesh consists largely of knap dotted with the hill range of the Vindhyas and the Satpuras.

Madhya Pradesh is one of the most important states of the country as for conservation of wildlife and biodiversity is concerned. It has had a long and eminent history in wildlife conservation as parts of the present Kanha National Park were declared a wildlife sanctuary way back in 1935 while the State enacted its very own MP National Parks Act in 1955. The Kanha National Park, Madhav National Park and Bandhavgarh National Park were originally constituted under this Act in 1955, 1956 and 1969, respectively, and were enlarged later to bring them to their current size. In tune with the awakened national consciousness towards conservation of flora and fauna, since the 1970s, the state government

Began setting up a network of protected areas (National parks and wildlife sanctuaries) under the provisions of the Wildlife (Protection) Act, 1972 ([www.mpforest.org](http://www.mpforest.org)).

Since Independence, there has been a steady rise in the number of National Parks and Wildlife Sanctuaries, especially after the enactment of the Wildlife Protection Act in 1972. There are currently about 25-Wildlife Sanctuary and 9-National parks and 6-Tiger reserves have been declared in Madhya Pradesh constituting approximately 11.40% of the total forest area and 3.52% of the geographical area of the state ([www.mpforest.org](http://www.mpforest.org) and WII).

Present study area come under Satpura mountain range. Satpura mountain range (rises in eastern Gujarat state running east through the border of Maharashtra and Madhya Pradesh to the

east till Chhattisgarh) is the home of a variety of plant species and wildlife taxa, including Leopard (*Panthera pardus*), Bengal Tiger (*Panthera tigris tigris*), Sloth bear (*Melursus ursinus*), Pea fowl (*Pavo cristatus*) and Python (*Python molurus*), Wild boar, (*Sus scrofa*), Muntjac deer (*Muntiacus muntjak*), Gaur (*Bos gaurus*), Chital deer (*Axis axis*), Sambar (*Cervus unicolor*), and Rhesus macaques (*Macaca mulatta*), Chousingha (*Tetracerus quadricornis*), Blackbuck (*Antelope cervicapra*), etc.

### Brief Description of the Study Area

The Tawa – II Mine of Pathakhhera Area WCL District Betul, Madhya Pradesh of M/s Western Coalfields Limited is located at 22°08'44" to 22°10'08" N and 78°09'33" to 78°11'48" E in Tehsil Ghoradongri, District Betul (M.P.). It is the underground coal mining project of annual capacity of 0.60 MTPA and project area is 520.00 Ha in which 396.279 Ha is forest land. Forest Land is a part of compartment no 327,328 and 329.

Betul district has rich in terms of seasonal and perennial flowing streams. Besides the river/streams, several stop dams are present in the study area constructed by Irrigation Department (M.P.). The present coal mining project (Tawa – II Mine of Pathakhhera Area WCL District Betul, Madhya Pradesh.) is situated in Bhogaikhapa Gram Panchayat of Ghoradongri Tehsil, district Betul (M.P.) The project area comes under the Tawa River basin which is one of the major tributary of River Narmada.

The underground mining activities are not likely to have any significant impact on surface of the mines and its surroundings. Satpura Tiger Reserve (STR) is situated within 8km radius of the project. On the other hand, Pachmarhi Biosphere Reserves situated at the distance of 5.2 km in north direction. During the present study, endangered / endemic species of flora and fauna were not recorded. Breeding and spawning grounds of fishes were also not observed during field survey, because, most of the streams of the study area are seasonal except River Tawa. Major part of the buffer area is covered by Asir and Amdhana Reserved forest.

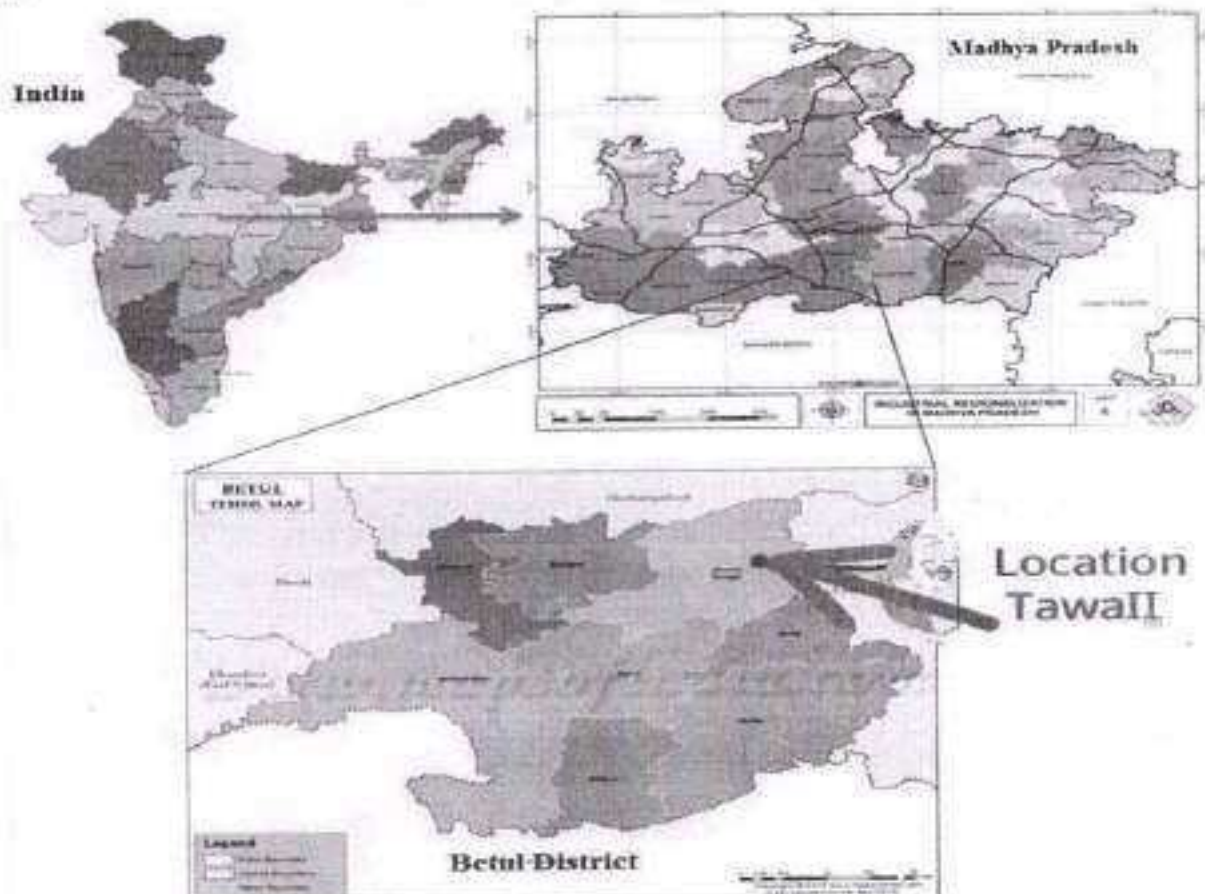


Fig. 1: Location Map of Tawa – II Mine of Pathakhhera Area WCL in Betul district of Madhya Pradesh.

The incline of Tawa – II Mine of Pathakhera Area WCL District Betul, Madhya Pradesh is located in forest land for which forestry clearance of 195.20 Ha including 12.708 Ha surface right has been obtained on 22.01.1999. Mining activities at this site will not affect the forest flora-fauna due to its underground mining procedures. Activities such as material stocking, loading and un-loading is doing within the define incline area. Also, a wall (7-8 feet height) was constructed at the boundary of the incline to avoid the human-animal encounter and also to restrict the animal movements in the activity area (Incline area).

While recommending the FC proposal of 201.079 Ha forest land of Tawa-II UG mine, Nodal Officer(FCA)/APCCF(LM) Govt of Madhya Pradesh vide letter 2619 dated 06/09/2017 obtained comment of PCCF(Wild Life) Govt of MP. PCCF(WL) was given No objection for the FC proposal of Tawa-II UG Mine.

-2-

6 प्रधान मुख्य वन संरक्षक ( वन्य प्राणी ) भोपाल द्वारा दिनांक 02/12/2016 से उपर्युक्त प्रकल्प क्षेत्र के संबंध में अभिमत दिया गया कि-

- प्रस्तावित क्षेत्र सीरिंगी के नगरीय क्षेत्र के निकट है।
- यह क्षेत्र गन्ना (शहतूत) की खेती के लिए 10 कोल ब्लॉक जहाँ renewal नहीं करना है, उसके पश्चिम में स्थित है।
- कॉरीडोर क्षेत्र में नहीं होने के कारण प्रकरण की स्वीकृति में कोई आपत्ति नहीं है।

7 वन मण्डलाधिकारी उत्तर बैतूल द्वारा भाग-2 में तथा मुख्य वन संरक्षक बैतूल द्वारा भाग-3 में स्वीकृति देने की अनुशंसा किये जाने तथा प्रधान मुख्य वन संरक्षक (वन्य प्राणी) द्वारा स्वीकृति देने में कोई आपत्ति नहीं होने से मध्य प्रदेश शासन, वन विभाग द्वारा भाग-5 में स्वीकृति देने की अनुशंसा की गई।

Fig. 2: Excerpts from Letter of APCCF(LM)/Nodal Officer(FCA) Govt of MP

In the present study area, Tiger corridor is situated approximately 8.7 km on the north-east side and approximately 8.5 km on the south-east side of the project boundary. All the Tiger reserves in India have their own conservation and management plan which are also monitored by the National Tiger Conservation Authority (NTCA). The Satpura Tiger Reserve has also a conservation and management of its flora and fauna, including Tiger population, which is regulated by the respective authority.

The area of the project is occasionally visited by Schedule -I fauna such as Tiger (*Panthera tigris tigris*) and Python (*Python molurus*). A site specific conservation plan for the schedule-I fauna have been prepared by an expert team of the WCL, Nagpur to ensure the minimum impact on the faunal habitats due to the various mining activities.

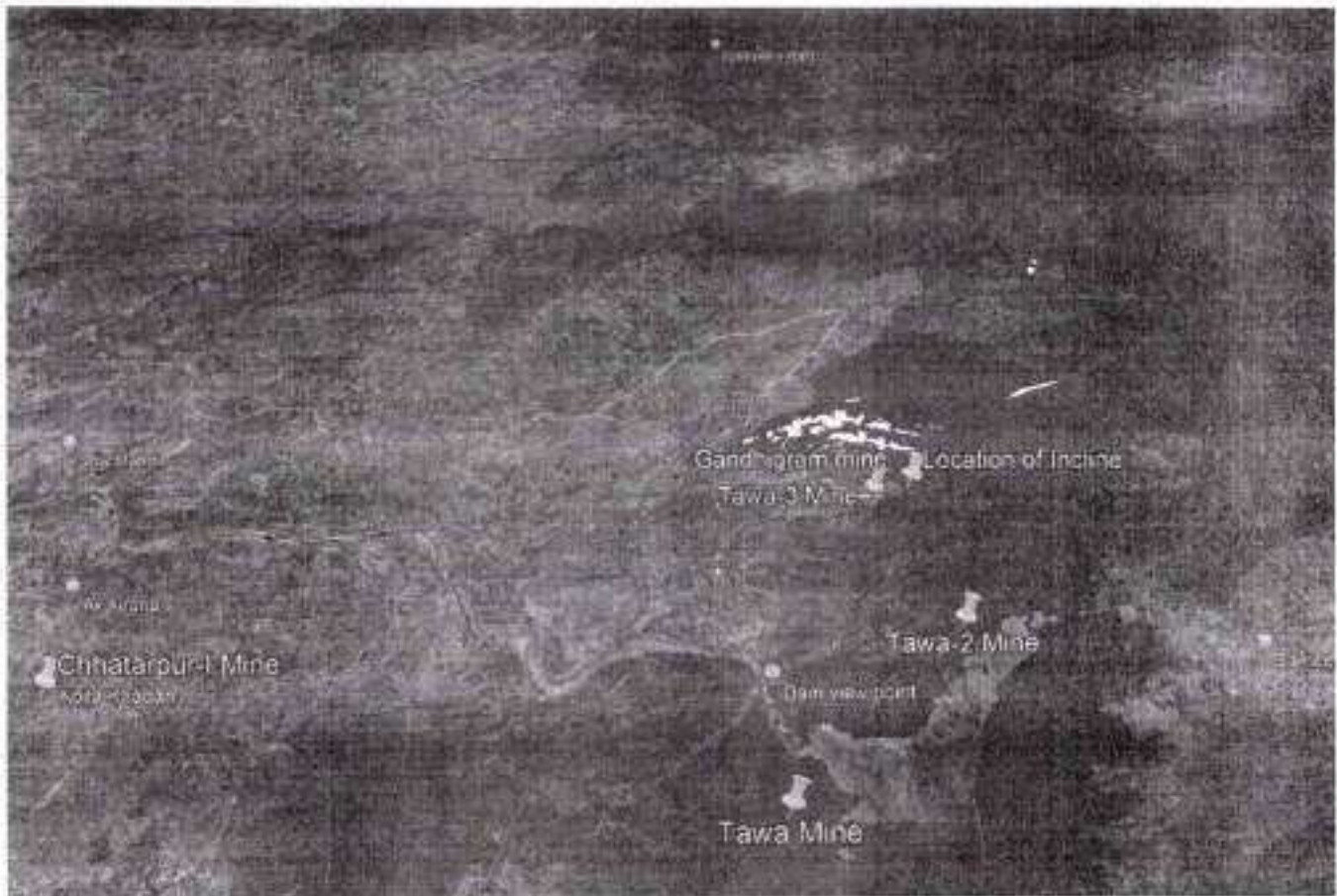


Fig. 3: Incline location in the project area of proposed Tawa – II Mine And Other Mines of Pathakhera Area WCL in District Betul, Madhya Pradesh. (Image source: Google eart)



Fig. 4: Tiger Corridors and Incline location of Tawa – II Mine of Pathakhera Area WCL in District Betul, Madhya Pradesh. (Source: Google.com/NCA Survey)

### Climate and Temperature

The climate of Betul is characterized by a hot summer and general dryness except rainfall during the south-west monsoon season. The year can be divided into four seasons. The cold season, December to February is followed by hot season from March to about first week of June is the summer season. The period from the middle June to September is the south-west monsoon season. May is the hottest month of the year with average temperature of  $39.3^{\circ}\text{C}$ . The minimum during the December is  $10.3^{\circ}\text{C}$ . The normal annual mean maximum and minimum temperature is  $30.7^{\circ}\text{C}$  and  $17.9^{\circ}\text{C}$  respectively (CGWB, 2013).

### Rainfall

The south-west monsoon starts from middle of June and lasts till end of September. October and middle of November constitute the post monsoon or retreating monsoon season. The normal annual rainfall of Betul district is  $1129.6\text{ mm}$ . About  $86.6\%$  of annual rainfall is received during monsoon season. Only  $13.4\%$  of annual rainfall takes place between October to May. The humidity comes down lowest in April. It varies between  $31\%$  to  $91\%$  at different time in different seasons (CGWB, 2013).

### Drainage

Tawa – II UG Mine of Pathakhera Area WCL in District Betul, Madhya Pradesh is situated in Tawa River basin which is a major tributary of river Narmada. The drainage of the district is diverted in all direction from the eastern high mass of Satpura plateau. The northern and central part of the district drains into the Narmada in the north through Tawa, Machna Morand and Bhange River. The Tapti River drain water of the western and southern central part of district (CGWB, 2013).

## 2. Ecological Profile of the Study Area

The district Betul is located in the central highlands (Satpura Plateau) and falls under the tropical climatic condition. The district has four district physiographic division viz (i) Satpura plateau in Tawa and Morand valleys (ii) The Satpura plateau in central and (iii) southern part of the district (iv) and Tapti valley. The district has maximum tree covered hilly terrain followed by forest and agricultural land out of its total geographical area. The major crops of the area are Rice, Wheat, Barley, Corn, Soybean, Maize, Cotton etc. The climatic and soil conditions allow growing sub-tropical and tropical fruits, vegetables and ornamentals. The various fruits grown in the state include mango, citrus, guava and jackfruit etc.

### Flora of the Study Area

The forests of the Betul district is comprises of tropical deciduous vegetation due to medium & high temperature, and humidity. Total forest area in Betul district is 3,572 Sq.km (State of Forest Report, 2011). Several Reserved and Protected Forests are present within the districts Betul as declared protected under "Wildlife (Protection) Act-1972" and Forest Conservation Act (1980). Details of forest status of Betul district is given in Table 1.

**Table 1: Forest Cover Area in Betul District, Madhya Pradesh (Area in sq.km)**

Geographic Area	Very Dense Forest	Mod. Dense Forest	Open Forest	Total	Proportion of Forest Cover to District Geographic Area (%)	Scrub
10,043	201	1,967	1,404	3,572	35.57	114
Source: State of Forest Report, 2011.						

Study area of present project (Core and Buffer zone) enriched with large quantity of vegetation and with variety of species of grasses, creepers, herbs, shrubs and trees etc. Some common vegetation found in the study area are listed in the Table 2.

**Table 2: Common vegetation found in Core and Buffer zone, including forest area of the present study area**

Sl. No.	Scientific Name	Common/Hindi Name	Family
1.	<i>Acacia arabica</i>	Babul	Mimosaceae
2.	<i>Acacia catechu</i>	Khair	Mimosaceae
3.	<i>Acacia leucophloea</i>	Gohira	Mimosaceae
4.	<i>Adhatoda vasica</i>	Basanga	Acanthaceae
5.	<i>Adina cordifolia</i>	Kurum, Haldu	Rubiaceae
6.	<i>Aegle marmelos</i>	Bel	Rutaceae
7.	<i>Ailanthus exelsa</i>	Mahalimba	Simarubaceae
8.	<i>Alangium lamarckii</i>	Ankula	Cornaceae
9.	<i>Albizia lebek</i>	Siris, Sersuan	Mimosaceae
10.	<i>Albizia procera</i>	Tentra, Dhala siris	Mimosaceae
11.	<i>Alstonia scholaris</i>	Chhatian, Chhachina	Apocynaceae
12.	<i>Anogeissus acuminata</i>	Phasi	Combretaceae
13.	<i>Anogeissus latifolia</i>	Dhaura	Combretaceae

**Conservation Plan of Schedule-I Species found in the Study area of Tawa – II Mine And Other Mines of Pathakhera Area Wel District Betul, Madhya Pradesh.  
Prepared by: Western Coal Fields Ltd Nagpur.**

14.	<i>Anogiessus latifolia</i>	Dhawda	Combretaceae
15.	<i>Anthocephalus cadamba</i>	Kadam	Rubiaceae
16.	<i>Artocarpus heterophyllus</i>	Panas	Moraceae
17.	<i>Bauhinia malabarica</i>	Koteli	Caesalpinaceae
18.	<i>Bauhinia purpurea</i>	Borda, Kuliari	Caesalpinaceae
19.	<i>Bauhinia racemosa</i>	Ambalata	Caesalpinaceae
20.	<i>Bauhinia retusa</i>	Choari	Caesalpinaceae
21.	<i>Bauhinia variegata</i>	Kanchana	Caesalpinaceae
22.	<i>Bombax ceiba</i>	Simal	Bambacaceae
23.	<i>Boswellia serrata</i>	Salai	Burseraceae
24.	<i>Bridelia retusa</i>	Khais, Kasi	Euphorbiaceae
25.	<i>Buchanania lanzan</i>	Char	Anacardiaceae
26.	<i>Butea monosperma</i>	Phalsa, Palas	Papilionaceae
27.	<i>Culicarpa arborea</i>	Sangambhari, Bora	Verbenaceae
28.	<i>Calophyllum inopryhllum</i>	Punang	Guttiferaceae
29.	<i>Canthium didymium</i>	Kumarchikni	Rubiaceae
30.	<i>Casearia tomentosa</i>	Benimanj, Khakra	Flocourtaceae
31.	<i>Cassia fistula</i>	Sunari	Caesalpinaceae
32.	<i>Cassia Siamea</i>	Chakunda	Caesalpinaceae
33.	<i>Cedrela toona</i>	Toon	Meliaceae
34.	<i>Cereya arborea</i>	Kumbhi	Lecythidaceae
35.	<i>Chloroxylon swietenia</i>	Bheru	Meliaceae
36.	<i>Cordia macleodii</i>	Samarsinga	Boraginaceae
37.	<i>Cordia myxa</i>	Bahalphal, Dhumko	Boraginaceae
38.	<i>Dalbergia latifolia</i>	Pahari sisssoo	Papilionaceae
39.	<i>Dalbergia latifolia</i>	Sissoo	Fabaceae
40.	<i>Dillenia aurea</i>	Kermala	Dilleniaceae
41.	<i>Dillenia pentagyna</i>	Rai, Keringila	Dilleniaceae
42.	<i>Diospyros melanoxylon</i>	Kendu	Ebenaceae
43.	<i>Diospyros peregrine</i>	Makarkendu	Edenaceae
44.	<i>Diospyros sylvatica</i>	Kalicha	Ebenaceae
45.	<i>Elaeocarpus robusta</i>	Patragundi, Poinsia	Tiliaceae
46.	<i>Emblica officinalis</i>	Anla	Euphorbiaceae
47.	<i>Emblica robusta</i>	Nunia, Baldia	Myrsinaceae
48.	<i>Erythrina variegata</i>	Manjari	Papilionaceae
49.	<i>Feronia elephantum</i>	Kaitha	Rutaceae
50.	<i>Ficus benghalensis</i>	Bara	Moraceae
51.	<i>Ficus glomerata</i>	Dimiri, Dumer	Moraceae
52.	<i>Ficus religiosa</i>	Pipal	Niraceae
53.	<i>Garcini cowa</i>	Rajkusum	Guttiferaceae
54.	<i>Gardenia latifolia</i>	Katranga	Rubiaceae
55.	<i>Gardenia lucida</i>	Kurundu	Rubiaceae
56.	<i>Garuga pinnata</i>	Ketkat, Kenkar	Burseraceae
57.	<i>Glochidium lanceolarium</i>	Kalchua, Chikini	Euphorbiaceae
58.	<i>Hymenodictyon excelsum</i>	Kanas	Rubiaceae
59.	<i>Lannea coromandelica</i>	Rajmai	Anacardiaceae

60.	<i>Lagerstroemia parviflora</i>	Senha, Sidha	Lythraceae
61.	<i>Mallotus philippinensis</i>	Kamalagundi	Euphorbiaceae
62.	<i>Mangifera indica</i>	Amba	Anacardiaceae
63.	<i>Mellingtonia hortensis</i>	Akashmali	Bignoniaceae
64.	<i>Michelia champaca</i>	Champa	Mangoliaceae
65.	<i>Mitragyna parviflora</i>	Mundi, Muid	Rubiaceae
66.	<i>Moringa oleifera</i>	Munuga	Moringaceae
67.	<i>Murraya koengii</i>	Versunga	Rutaceae
68.	<i>Phoenix sylvestris</i>	Khajuri	Palmaceae
69.	<i>Pongamia pinnata</i>	Karanja	Papilionaceae
70.	<i>Putranjiva roxburghii</i>	Poichandia	Euphorbiaceae
71.	<i>Randia uliginosa</i>	Thelko	Rubiaceae
72.	<i>Saraca ubduca</i>	Ashok	Caesalpinaceae
73.	<i>Schleichera oleosa</i>	Kusum	Saoubdaceae
74.	<i>Semecarpus anacardium</i>	Bhalia, Bheluan	Anacardiaceae
75.	<i>Shorea robusta</i>	Sal, Sargi, Rengal	Dipterocarpaceae
76.	<i>Soymda febrifuga</i>	Rohini	Meliaceae
77.	<i>Spondian pinnata</i>	Ambada	Anacardiaceae
78.	<i>Stereospermum tetragonum</i>	Patali	Bignoniaceae
79.	<i>Streblus asper</i>	Sahada	Moraceae
80.	<i>Strychnos potatorum</i>	Koya, Katoka	Loganiaceae
81.	<i>Syzygium cumini</i>	Jamu	Myrtaceae
82.	<i>Tamarindus indica</i>	Thetel, Tetel	Caesalpinaceae
83.	<i>Tectona grandis</i>	Saguan	Verbenaceae
84.	<i>Terminalia arjuna</i>	Arjun, Kaha	Combretaceae
85.	<i>Terminalia bellerica</i>	Bahada	Combretaceae
86.	<i>Terminalia tomentosa</i>	Asan, Sahaj	Combretaceae
87.	<i>Trema orientalis</i>	Kharkhas	Ulmaceae
88.	<i>Walsura piscida</i>	Bakom, Mundika	Meliaceae
89.	<i>Wrightia tinctoria</i>	Khirna	Apocynaceae
90.	<i>Xylia xylocarpa</i>	Kangada	Mimocaceae
91.	<i>Zyphus jujube</i>	Barkoli, Buro	Rhambaceae

**Source:** Baseline data of project supported by data of Forest Department, District Betul, M.P.

### Fauna of the Study Area

The present coal mining project (Tawa – II Mine of Pathakhera Area WCL in District Betul, Madhya Pradesh.) near the **Tawa River**. Part of project area come under the Satpura forest range. Whereas, there are no ecologically sensitive areas such as National Park / Wildlife Sanctuary within 1 km radius of the project. Major part of the buffer area is covered by Asir and Amdhana Reserved forest which supports and provides suitable habitat for variety of small animals (Mammals, Reptiles, Amphibians and Birds). The wildlife fauna mainly found in the open forests in the study area are given in Table 3.

**Table 3: Fauna commonly found in Core and Buffer zone of Tawa – II Mine of Pathakhera Area WCL in District Betul, Madhya Pradesh.**

Sl.No.	Scientific Name	English name	Local Name	IUCN Status	Schedule Status (WPA, 1972)	Core Zone	Buffer Zone
<b>Mammals</b>							
1	<i>Axis axis</i>	Spotted deer	Chital, Singala	LC	III		+
2	<i>Cynopterus sphinx</i>	Short-nosed fruit bat	Chemani	LC	V		+
3	<i>Funambulus palmarum</i>	common plain squirrel	Patta musa	LC	IV	+	+
4	<i>Herpestes edwardsi</i>	Indian grey mongoose	Hatia neula	LC	IV	+	+
5	<i>Hyaena hyaena</i>	Striped Hyaena	Lakarbagha	NT	III		+
6	<i>Hystrix indica indica</i>	Indian crested porcupine	Jhinka	LC	IV	+	+
7	<i>Lepus nigricollis ruficaudatus</i>	Indian hare	Sasa, Thekua	LC	IV	+	+
8	<i>Macaca mulatta</i>	Rhesus macaque	Pati	LC	III	+	+
9	<i>Muntiacus muntjak malabaricus</i>	Barking deer	Kutra, Kutura	LC	III		+
10	<i>Mus hooduga</i>	Indian field mouse	-	LC	NE	+	+
11	<i>Panthera tigris tigris</i>	<b>Bengal tiger</b>	<b>Tiger, Sher</b>	<b>EN</b>	<b>I</b>		+
12	<i>Paradoxurus hermaphroditus</i>	Common palm civet	Katasha, odha	LC	IV		+
13	<i>Pteropus giganteus</i>	Indian flying fox	Baduri	LC	V		+
14	<i>Rattus rattus</i>	Rufous house rat	Musa	LC	NE	+	+
15	<i>Rousettus leschenaulti</i>	Indian fulvous bat	-	LC	V		+
16	<i>Rusa unicolor</i>	Sambhar	Sambhar	LC	III		+
17	<i>Suncus murinus</i>	House shrew	Chuchundra	LC	IV	+	+
18	<i>Sus scrofa</i>	Wild boar	Barha	LC	III	+	+
19	<i>Taphozous melanopogon</i>	Black beared sheath tailed bat	-	LC	IV		+
20	<i>Viverricula indica</i>	Indian small civet	Saliapatiri, Musa bilei	LC	IV		+
<b>Lizard</b>							
1	<i>Barkudia insularis</i>	-	Deemundia	LC	-		+
2	<i>Chamaeleo zeylanicus</i>	Indian chameleon	Bahurupi	LC	-	+	+
3	<i>Colotes versicolor</i>	Garden gaeko	Bahurupi Kuasap	LC	-	+	+
4	<i>Crotodactylus nebulosus</i>	-	Pahadi endua	LC	-		+
5	<i>Eublepharis hardwickii</i>	Fat tailed gaeko	Mutalanga Endua	LC	-		+
6	<i>Hemidactylus brooki gray</i>	House lizard	Jhitpiu	LC	-	+	+
7	<i>Hemidactylus maculatus</i>	Rock gaeko	Endua	LC	-	+	+
8	<i>Mabuya bibeoni</i>	Skink	Champeineul	LC	-	+	+
<b>Amphibians and Snakes</b>							
1	<i>Bufo melanostictus</i>	Common Indian toad	Luni benga	LC	NE	+	+

**Conservation Plan of Schedule-I Species found in the Study area of Tawa – II Mine And Other Mines of Pathakhera Area Wel District Betul, Madhya Pradesh.**  
**Prepared by: Western Coal Fields Ltd Nagpur.**

2	<i>Bufo somasticus</i>	Marbled toad	-	LC	NE	+	+
3	<i>Bungarus caeruleus</i>	Banded krait	Rana sap	LC	IV	+	+
4	<i>Dendrelaphis ahaetulla</i>	Common Indian krait	Chitti sap	LC	IV	+	+
5	<i>Dendrelaphis tristis</i>	Tree snake		LC	IV	+	+
6	<i>Elephe radiate</i>	-	Dhamana	LC	IV	+	+
7	<i>Eryx conicus</i>	Russell's earthboa	Boda sap	LC	IV		+
8	<i>Python molurus</i>	Indian Python	Ajgar	VU	I		+
9	<i>Lycodon striatus</i>	Tree snake	Kandanali	LC	IV	+	+
10	<i>Phyas mucosus</i>	Checkered keelback	Panidhandu sap	LC	IV		+
11	<i>Ramanella variegata</i>	Variable ramanella	-	LC	-		+
12	<i>Rana cyanophlyctis</i>	Skipping frog	Brahmani bengal	LC	IV	+	+
13	<i>Rana limnocharis</i>	Paddy field frog	-	LC	IV	+	+
14	<i>Rana tigrina</i>	Indian bull frog	Brahmani bengal	LC	IV	+	+
15	<i>Tamopterna breviceps</i>	Bowing frog	-	LC	IV		+
<b>Birds (Aves)</b>							
1	<i>Accipiter badius duxsumieri</i>	Indian Shikra	Baza	LC	IV	+	+
2	<i>Aegithina tiphia humei</i>	Central Indian Iora	-	LC	IV		+
3	<i>Alcedo atahis bengalensis</i>	Indian small blue kingfisher	Machharanka	LC	IV		+
4	<i>Anas querquedula</i>	Garganey		LC	IV		+
5	<i>Anas strepera</i>	Gadwall	Kuji hansa	LC	IV		+
6	<i>Anastomus oscitans</i>	Openbill stork	Gendalia, Kaansha	LC	IV		+
7	<i>Apus affinis affinis</i>	Indian house swift	Chatak	LC	IV		+
8	<i>Ardeola grayii grayii</i>	Indian pond heron, paddy bird	Chota kantia Baga	LC	IV	+	+
9	<i>Athene brama indica</i>	Spotted owlet	Raja pecha	LC	IV		+
10	<i>Bubulcus ibis coromandus</i>	Cattle egret	Nandi baga	LC	IV	+	+
11	<i>Calidris minuta</i>	Little stint	Cha chedhei	LC	IV		+
12	<i>Caprimulgus asiaticus asiaticus</i>	Indian little nightjar	Bhuinchhapuli	LC	IV		+
13	<i>Centropus sinensis parroti</i>	Crow peasant	Kumbhati	LC	IV	+	+
14	<i>Charadrius dubius ferdoni</i>	Indian little ringed plover	-	LC	IV		+
15	<i>Copsychus saularis saularis</i>	Indian magpie robin	Dayal	LC	IV	+	+
16	<i>Corvus macrorhynchos</i>	Indian jungle crow	Damara kua	LC	IV	+	+
17	<i>Corvus splendens splendens</i>	Indian house crow	Kuwa	LC	IV	+	+
18	<i>Cuculus canorus canorus</i>	Cuckoo	Koili	LC	IV	+	+
19	<i>Cuculus varius varius</i>	Common hawk cuckoo	-	LC	IV		+
20	<i>Dendrocygna javanica</i>	Lesser whistling duck	Hansbarali	LC	IV		+
21	<i>Dicrurus adimilis macrocerus</i>	king crow	Kajalapati	LC	IV	+	+
22	<i>Dicrurus caeruleus caeruleus</i>	Indian white bellied drongo	Kajalapati	LC	IV		+

**Conservation Plan of Schedule-I Species found in the Study area of Tawa – II Mine And Other Mines of Pathakhera Area WCL District Betul, Madhya Pradesh.**  
Prepared by: Western Coal Fields Ltd Nagpur.

23	<i>Elanus caeruleus vociferans</i>	Black-winged kite	-	LC	IV	+	+
24	<i>Eudynamys scolopacea scolopacea</i>	Asian koel	Koili	LC	IV	+	+
25	<i>Gallus gallus murgli</i>	Indian red jungle fowl	Ganga Bunkukuda	LC	IV	+	+
26	<i>Glaucidium radiatum radiatum</i>	Barred jungle owlet	Hulhulia pecha	LC	IV		+
27	<i>Harpactes fasciatus legerli</i>	Malabar trogon	-	LC	IV		+
28	<i>Himantopus himantopus himantopus</i>	Indian black winged stilt	Cha chedhei	LC	IV	+	+
29	<i>Hypothymis azurea styani</i>	Indian black naped monarch flycatcher	-	LC	IV		+
30	<i>Larus ridibundus</i>	Black headed gull	Machhakhia	LC	IV		+
31	<i>Lonchura punctulata punctulata</i>	Indian spotted munia	Baramashi	LC	IV		+
32	<i>Merops lesshenaulti lesshenaulti</i>	Chestnut headed bee eater	Bangstapaturi	LC	IV		+
33	<i>Merops orientalis orientalis</i>	Indian small green bee eater	Balishua	LC	IV	+	+
34	<i>Neectarinia asiatica asiatica</i>	Indian purple sunbird	Phulchuhi	LC	IV	+	+
35	<i>Nettapus coromandelianus coromandelianus</i>	Cotton teal	Jala chutaka	LC	IV		+
36	<i>Nycticorax nycticorax nycticorax</i>	Night heron	Rati baga	LC	IV		+
37	<i>Oriolus oriolus kundoo</i>	Indian golden oriole	Haladibasanta	LC	IV	+	+
38	<i>Orthotomus sutorius qazuratus</i>	Indian tailor bird	Tiki chadhei	LC	IV		+
39	<i>Otus hakkamoena marathae</i>	Indian collared scops	Raja pecha	LC	IV		+
40	<i>Passer domesticus indicus</i>	Indian house sparrow	Gharachatia	LC	IV	+	+
41	<i>Ploceus philippinus</i>	Indian baya	Baya	LC	IV	+	+
42	<i>Podiceps ruficollis capensis</i>	Little grebe, dabchick	Hansarali, pani Hansa	LC	IV		+
43	<i>Psittacula cyaroccephala</i>	Plum- headed parakeet	Chandani	LC	IV	+	+
44	<i>Psittacula krameri marillensis</i>	Rose- ringed parakeet	Chandana	LC	IV	+	+
45	<i>Pycnonotus cafer wetmorei</i>	Orissa red vented bulbul	Champa	LC	IV		+
46	<i>Saciccoloides fulicata erythrura</i>	Indian robin	Shuee	LC	IV	+	+
47	<i>Streptopelia chinensis suratensis</i>	Indian spotted dove	Kapota	LC	IV	+	+
48	<i>Sturnus contra contra</i>	Indian pied maina	Gukhai maina	LC	IV		+
49	<i>Sturnus pagodarum</i>	Black headed myna	Telhi maina	LC	IV	+	+
50	<i>Treron phoenicoptera chlorogaster</i>	South green pigeon	Haradakhai	LC	IV		+
51	<i>Tringa hypoleucos</i>	Common sand piper	Cha chedhei	LC	IV		+
52	<i>Vanelus indicus indicus</i>	Red wartled lapwing	Tentei	LC	IV		+

**Source:** Baseline data of Tawa – II Mine And Other Mines Of Pathakhera Area WCL, supported by data of Forest Department, District Betul, M.P.

## 1. Conservation Plan of Schedule-I Species

Biological profile of present study area of Tawa – II Mine And Other Mines Of Pathakhera Area WCL in District Betul, Madhya Pradesh. revealed the presence of four (2) schedules-I species which are listed in Table 4.

**Table 4: List of Schedule-I species present in Study Area**

Sl. No	English Name	Scientific Name	Schedule Status (WPA-1972)	IUCN Status
<b>Mammal</b>				
1	Bengal tiger	<i>Panthera tigris tigris</i>	I	EN
<b>Reptiles (Snakes)</b>				
2	Indian Python	<i>Python molurus</i>	I	VU
Note: EN: Endangered and VU: Vulnerable,				

Biological importance of all schedule-I species recorded of found in the study area along with their conservation and management plan and environmental mitigation are as follows:

### ○ CONSERVATION PLAN OF MAMMALS

*Panthera tigris tigris* (Bengal tiger)



Source: [www.wikimedia.org](http://www.wikimedia.org)

### ii. Taxonomical classification

<b>Kingdom</b>	Animalia
<b>Phylum</b>	Chordata
<b>Class</b>	Mammalia
<b>Order</b>	Carnivora
<b>Family</b>	Felidae
<b>Genus</b>	<i>Panthera</i>
<b>Species</b>	<i>P. tigris</i>

### iii. Conservation Status

*Panthera tigris* has been listed as Endangered by IUCN as the population has declined. It has been listed in Schedule-I of Indian Wildlife Protection Act (1972). The Indian Wildlife Protection Act (1972) enables government agencies to take strict measures, so as to ensure the conservation of the *Panthera tigris*.

### iv. Habitat

The Tigers prefers denser vegetation, for which its camouflage coloring is ideally suited, and where a single predator is not at a disadvantage compared with the multiple felines in a pride. A further habitat requirement is the placement of suitably secluded den locations, which may consist of caves, large hollow trees, or dense vegetation. They can occupy a wide range of habitat types, but will usually require sufficient cover, proximity to water, and an abundance of prey. They avoid to move towards human settlements regularly. In the study area, Tigers are occasionally found in Pench - Satpura tiger corridor. On the other hand, Tigers are found only within the Satpura tiger reserves (situated more than 8.5 km away from the present project in north direction).

#### **v. Food and Feeding**

Tigers prefer to hunt at night, when their ungulate preys are most active. They can eat 18 to 40 kg of meat in a day when they successfully take large prey. They use a stealthy approach, taking advantage of every rock, tree and bush as cover and rarely chase prey far. Tigers are silent, taking cautious steps and keeping low to the ground so they are not sighted or heard by the prey. The majority of the tiger diet consists of various large ungulate species, including Sambar, Chital, Hog deer, Barasingha, Barking deer, Sika deer, Eurasian elk, Roe deer, Musk deer, Nilgai, Black buck, Gaur, Banteng, Water buffalo and Wild pigs. Domestic ungulates are also taken, including cattle, Water buffalo, Horses and Goats. In rare cases tigers attack on various other animals in different habitats. A very few tigers begin to hunt humans. **Ecological Threats and Conservation Plan**

#### **❖ Direct Population Treats**

Direct population threats include all reasons and actions which directly reduce the numbers of tigers in the wild other than the natural death of the animal. Loss of forest areas a major threat to tigers in India. Furthermore, habitat degradation outside the parks, caused by overgrazing, overharvest of forest products and mining of minerals also possesses threats to the habitat of species. During 19<sup>th</sup> and 20<sup>th</sup> century tiger were killed in large numbers as they have been one of the big five game animals of Asia.

#### **• Conservation Plan**

The Wild Life Protection Act (1972) provides us with the statutory framework for wildlife conservation, and declared that hunting is a deadly crime against wildlife. While, forestation will be done surrounding the mine area for enhancement of habitat, protecting the loss of Tiger diversity due to habitat loss.

#### **❖ Conflicts of Tigers with Human & Farmers**

The intensity of Tiger and human conflicts has significantly increased over the years. Increasing number of human death due to man-eating Tigers certainly possesses a serious concern to the local people and similar trend of losing problem tigers indicates a serious threat to tiger survival. Tigers are known for their aggressiveness, both towards humans and towards other large mammals. They seem to avoid human contact, when possible, but may encounter humans when they are enticed into croplands or when

people enter the forest. Tigers seem to have a low tolerance toward people when they inadvertently meet. There are lots of described incidents of mauling of humans by Tigers.

#### • Conservation Plan

Conflict arises mainly due to scarcity of habitat and food for Tigers in the forest and it enters residential area in search of food resulting in animal-human conflicts. This may be reduced by (1) Plantation to enhance the habitat, (2) Public awareness of importance of animal in the local ecology and

(3) Compensation to the victims of attack by Tigers.

#### ❖ Poaching

Poaching of Tigers for the traditional Chinese medicine industry started in northern India in the mid-1980's. In India, mostly poaching is done by tribals who know their forests well. It was studied that their body parts are important in local areas as well as outside India. A significant immediate threat to wild Tiger populations is the illegal trade in poached skins and body parts between India, Nepal and China. Illegal trade in Tiger body parts (skin, bones, and claws) continues to threaten the survival of the species in the wild.

#### • Conservation Plan

The Wild Life Protection Act (1972) provides us with the statutory framework for wildlife conservation, and poaching is a deadly crime against wildlife. Few poachers are caught and punished in the Madhya Pradesh earlier.

During formal interview and discussion with local villagers it was noted that study area is not prone to poaching or any other wildlife violence related to Tiger or any other species. But, precaution will be always taken while dealing with wildlife. If any kind of poaching or other offense is noticed; it will be immediately clued-up to the concern forest and wildlife officials.

Moreover, workers will be trained and educated about the importance of Tiger for ecology and ultimately to humans; an internal attraction towards the species will be trying to develop. More importantly, workers will be made aware of wildlife crime and also subsequent penalties and punishment.

#### ❖ Habitat Threats / Loss

Loss of suitable habitat like forests and lack of water resource in respective area are a major cause of the declining the population density of Tigers in India. Due to the continuous decline of forest results lack of other animals on which Tigers feeds.

#### • Habitat Improvement Plan

Tiger lives in a variety of dry and wet forests, and also in some grassland, where boulders, rocks and scattered shrubs and trees provide shelter. Habitat of the species will be improved by planting suitable species in surrounding areas. The prey species preferred by Tiger will be

conserved to insure sufficient prey availability, which will also reduce the conflict with humans. In the study area, Tigers are found in Satpura Tiger Reserve, which are already protected by State and Central Government. Satpura Tiger Reserve and its surroundings areas are enriched with major and diversified vegetation. Animals on which Tigers feeds are also found in good numbers in these areas.

## CONSERVATION REPTILES (SNAKES)

### *Python molurus* (Indian Python)

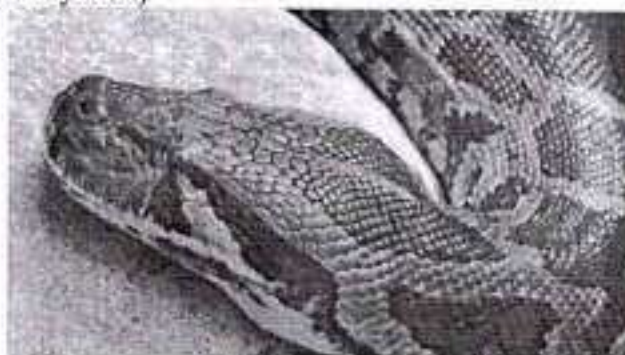


Photo source: <http://upload.wikimedia.o>

### Classification

Kingdom	:	Animalia
Phylum	:	Chordata
Class	:	Reptilia
Order	:	Squamata
Family	:	Pythonidae
Genus	:	<i>Python</i>
Species	:	<i>P. molurus</i>

### Conservation Status

The Indian Python is classified as Near Threatened on the IUCN Red List of Threatened species; moreover this species is mentioned under the Schedule-I of Wildlife Protection Act (1972). This listing indicates that it may become threatened with extinction and is in need of frequent reassessment.

#### 2.4.2. Habitat

Indian Python occurs in a wide range of habitats, including grasslands, swamps, marshes, rocky foothills and woodlands. They depend on a permanent source of water. Sometimes they can be found in abandoned mammal burrows, hollow trees, dense water reeds and mangrove thickets.

In the study area, Indian Python are occasionally found in core and buffer area. They are mostly found in Satpura forest, which are already protected by State and Central Government. Animals on which Python feeds are also found in good numbers in the area.

#### 2.4.4. Food and Feeding

Indian Python mainly are carnivorous animals and feed on mammals, birds and reptiles indiscriminately, but seem to prefer mammals. Live prey is constricted and killed by Python. After a heavy meal, an individual may fast for weeks. The python can swallow prey bigger than its diameter because the jaw bones are not connected. Moreover, prey cannot escape from its mouth because of the arrangement of the teeth (which are reverse saw-like).

#### Ecological Threats and Conservation Plan

##### Direct Population Threats

Direct population threats include all reasons and actions which directly reduce the number of Indian Python in their respective habitats other than the natural death. Loss of forest areas along with the reduction of different small size animals due to climate change and deforestation are a major threat to Indian Python in India. But, the present area is enriched with forests and prey materials for Python population.

##### • Conservation Plan

The Wild Life Protection Act (1972) provides us with the statutory framework for wildlife conservation, and declared that hunting of Pythons is a deadly crime against wildlife. For improvement of habitats, forestation and grassland development will be done surrounding the respective project area to ensure the enhancement of habitat and protecting the loss of Python diversity.

##### Conflicts with Human/Farmer

Several Indian Python are killed due to ignorance or out of fear when they enter habitation and capture goats or poultry. For some strange reasons, snakes have always been associated with fear in the minds of most people. The inborn fear regarding their toxic venom plays a key role in killing most snakes, irrespective of whether they are harmful or not. As far as Pythons are concerned they are lethargic and slow moving even in their native habitat, they exhibit timidity and rarely try to attack even when attacked. While humans on encountering any Python tried to kill the snake in dread of any damage to them.

##### • Conservation Plan

The most basic requirements are willingness and inclination to learn and differentiate the poisonous and the non-venomous snakes. The minute the farmers or the workers, spot a snake; they should be in a position to distinguish between a triangular and a round headed snake and the patterns associated with the snake. Both local villagers and workers will be educated facilitate to avoid the any snake bite. Following precautionary measures will be taken:

- Adequate lighting in and around the living quarters.
- Fire wood stacks to be set up far away from the house.
- Workers need to be protected with footwear.
- Workers need to be provided with adequate lighting (torch lights) during night times.

### **Poaching**

The beautiful and shiny skin of the Indian Python makes them target species for poachers. In some area the meat is eaten by locals as the fat is purported to have medicinal value. Also, Pythons are hunted extensively for their patterned skin, which is made into leather. The skin of Indian Python has high value in international market as used to manufacture leather goods, including boots and shoes.

### **• Conservation Plan**

During formal interview and discussion with locals it was noted that study area is not prone to poaching or any other wildlife violence related of Indian Python. But, precaution will be always taken while dealing with wildlife. If any kind of poaching or other offense is noticed; it will be immediately clued-up to the concern Forest and Wildlife Officials. Moreover, workers will be trained and educated about the importance of Indian Python for ecology and will be made aware of wildlife crime and also subsequent penalties and punishment.

### **Habitat threats/Loss**

Rapid degradation of forest areas, due to climate change degradation of grassland, swamps and marshes is a major threat to Indian Python because it causes population fragmentation. Furthermore, habitat degradation caused by overgrazing, overharvest of forest products, expansion of agricultural areas, and use huge amounts of pesticides agricultural areas also poses threats to the habitat of Indian Python as well as their prey material.

### **• Habitat Improvement**

For habitat improvement of Indian Python all possible activities will be carried out in the study area. Their habitat will be artificially improved in the study area by planting suitable species along with the development of grasslands in the respective area. Any existing stream and pond will be preserved and no discharge of any harmful effluent will be drained in the stream of the study area. If needed artificial wetlands will be created to improve the micro-habitat of species. If any Python individual is spotted within or nearby the lease area, it will be immediately informed to concern authority and suitable rescue plan will be adopted. Workers will be instructed not to disturb or damage any kind of wildlife.

### 3. Greenbelt Development and Habitat Improvement Plan

There are several faunal species are present in the forest areas other open forests of Betul district. In recent decades, it has been identified that the numbers of wildlife animals degrading day by day due to various factors such as loss of habitat, degradation forest and grassland ecosystems, forest fires, heavy rain and climate change etc. On the other hand, lack of preferred pray and food material are also responsible for rapid declining of wildlife.

For the improvement of habitat for different wildlife fauna, grassland and forestation will be done in the study area to ensure to availability of preferred pray and food source. The trees and grass species preferred by them in the study area will also be conserved to reduce the conflict with humans.

Greenbelt plantation will be started with the beginning of the mining and will be completed within five years from the beginning. To raise seedlings for plantation in the greenbelt a nursery will be developed. Seedlings of only local species, suitable for greenbelt plantation will be raised in this nursery. If need arises then the saplings will be protected with tree guards. Together with the trees greenbelt plantation will include shrubs, herbs and some grass species also. Greenbelt will help in reducing the spread of fugitive dust and noise from the mining area and transportation roads.

#### • Criteria for plants/trees species selection for Greenbelt development:

1. Having tolerance to dust pollution.
2. Should maintain leaves for as longer a time as possible.
3. Combination of plants should be such so that almost a screen of plants is formed to check the dust from escaping the area. Thus the green belt plants will consist of mainly the trees and shrubs with some herbs also.
4. The trees should provide shade.
5. Plants possessing economic or aesthetic value should be given preference.
6. Trees less affected due to pruning should be given preference because pruning will yield fuel wood.
7. Every plant species to be planted should have some basis for its selection to be planted in the greenbelt.
8. Only local species (grasses, herbs, shrubs and trees) will be taken for plantation.

#### • Saplings :

Saplings for planting will be procured form the nurseries of the State Forest Department. Saplings will be planted after the commencement of the monsoons. Saplings will be planted in pits at specific distance/intervals. The pits will be filled with a mixture of good quality soil and organic manure (cattle dung, agricultural waste, kitchen waste). The saplings will be planted just after the commencement of the monsoons to ensure maximum survival. The species selected for plantation must be locally growing varieties with fast growth rate and ability to flourish even in thin, dry soils.

● **Post Plantation Management**

Watering will be done immediately after plantation. Further watering will depend on the rain while during dry seasons watering will be regularly done at least twice a week. Saplings will be regularly monitored and remedial actions will be undertaken as required. Casualties will be replaced at the beginning of each monsoon up to five years.

**Table 5: List of Trees/ Herbs/ Shrubs / Grass species for Greenbelt development and Habitat improvement**

Sl. No.	Botanical Name	Local /Trade Name	Family Name
<b>Trees</b>			
1	<i>Aegle marmelod</i>	Bel	Rutaceae
2	<i>Anogeissus latifolia</i>	Dhaora	Combretaceae
3	<i>Bauhinia variegata</i>	Kachnar	Leguminosae
4	<i>Bombax ceiba</i>	Semal	Malvaceae
5	<i>Boswellia serrate</i>	Salai	Burseraceae
6	<i>Dalbergia paniculata</i>	Dhoban	Papilionaceae
7	<i>Dalbergia sissoo</i>	Shisham	Fabaceae
8	<i>Emblica officinalis</i>	Amla	Euphorbiaceae
9	<i>Ficus bengalensis</i>	Bargad	Moraceae
10	<i>Ficus glomerata</i>	Gular	Moraceae
11	<i>Ficus religiosa</i>	Pipal	Moraceae
12	<i>Lagerstroemia prvilfora</i>	Lendia	Lythraceae
13	<i>Madhuka inidica</i>	Mahua	Sapotaceae
14	<i>Mangifera indica</i>	Aam	Anacardiaceae
15	<i>Pterocarpus marsupium</i>	Bija	Papilionaceae
16	<i>Scheichera oleosa</i>	Kusum	Sapndaceaea
17	<i>Soymida febrifuga</i>	Rohan	Meliaceae
18	<i>Syzygium cumini</i>	Jamun	Myrtaceae
19	<i>Tectona grandis</i>	Sagon	Verbenaceae
20	<i>Terminalia arjuna</i>	Arjun tree	Combretaceae
21	<i>Terminalia tomentosa</i>	Saja	Combretaceae
22	<i>Zizyphus mauratiana</i>	Ber	Rhamnaceae
23	<i>Zizyphus xylopyra</i>	Ghont	Rhamnaceae
<b>Herbs and Shrubs</b>			
1	<i>Achyranthes aspera</i>	Apamarg	Amarantaceae
2	<i>Balanites aegyptica</i>	Hingot	Simaroubaceae
3	<i>Balio sprman</i>	Hansia Dafar	Euphorbiaceae
4	<i>Colebrookia oppositifolia</i>	Kalabassa	Labiatae
5	<i>Desmodium velutinum</i>	Chikati	Papilionaceae
6	<i>Grewia hirusuta</i>	Gudsakri	Tiliaceae
7	<i>Jatropha curcus</i>	Tratanjot	Euphorbiaceae
8	<i>Lantana camara</i>	Raimunia	Verbenaceae
9	<i>Nyctanthes arbotrotis</i>	Harsinagar	Oleaceae
10	<i>Vitex negundo</i>	Nirgudi	Verbenaceae

11	<i>Woodfordia floribunda</i>	Dhawai	Lythraceae
12	<i>Zizyphus rugosa</i>	Churna	Rhamnaceae
13	<i>Rauvolfia serpentina</i>	Sarpangandha	Apocynaceae
14	<i>Tamarix ericodes</i>	Jhau	Tamaricacea
15	<i>Tribulus terrestris</i>	Gokhru	Zygophylacea
<b>Grasses</b>			
1	<i>Aristida setacea</i>	Broom grass	Poaceae
2	<i>Cyanodon dactylon</i>	Durva	Poaceae
3	<i>Eragrostis tenella</i>	Eragrostis	Poaceae
4	<i>Hetropogon contortus</i>	Tangle head	Poaceae
5	<i>Imperata cylindrical</i>	Cogon grass	Poaceae
6	<i>Setaria verticillata</i>	Hooked bristle grass	Poaceae
7	<i>Vetiveria zizanioides</i>	Khus Khus	Poaceae
8	<i>Vetiveria zizanioides</i>	Khus-Khus	Poaceae

#### 4. Common Public Awareness Programme for Wildlife Protection and Conservation

Among all the threats of biodiversity, lack of awareness is the major cause for their loss. Hence, public awareness programs will be conducted regarding the issues, conflicts and facts of wildlife, especially for the entire schedule-I species present in the study area and buffer zone of Tawa – II Mine And Other Mines Of Pathakhera Area WCL in District Betul, Madhya Pradesh. Conservation education and public awareness are useful tools in changing the behavior of people. Illegal entry into the forest for collection of forest products should be stopped. Awareness programs about various wildlife species, their ecology, habitat, food & feeding and behavior will be conducted in the study area. Programs will target to make aware of all groups (Community Forest User Group, Women's groups, Villagers of the Buffer Zone, School Teachers and Students). Recommendations against walking inside or at the edge of the forest during night hours, and at dawn or dusk should also be avoided to reduce human and animal encounters.

Involvement of local people in conservation activities will be ensured by organizing meetings and Seminars/Workshop from village to village on regular basis to carry the people along with implementation. Functions like Van Mahotsav, Wildlife Week, World Forestry Day, and World Environment Day will be organized with the help of Gram Panchayat and local Forest Department. Moreover, a training workshop for all mine workers will be conducted in starting of any project. It will include the formal training on the importance of biodiversity and also to make available the information of the flora and fauna of high conservation value present in the surrounding areas. Information/awareness on Wildlife policies, Government regulation and penalties will be provided to the workers.

**5. Tentative Budget for Conservation Plan of Schedule I Species**

Tentative budget is proposed for wildlife Conservation is as Followed -

**Table 6: Expenditure For Conservation Plan (Amount in lakhs).**

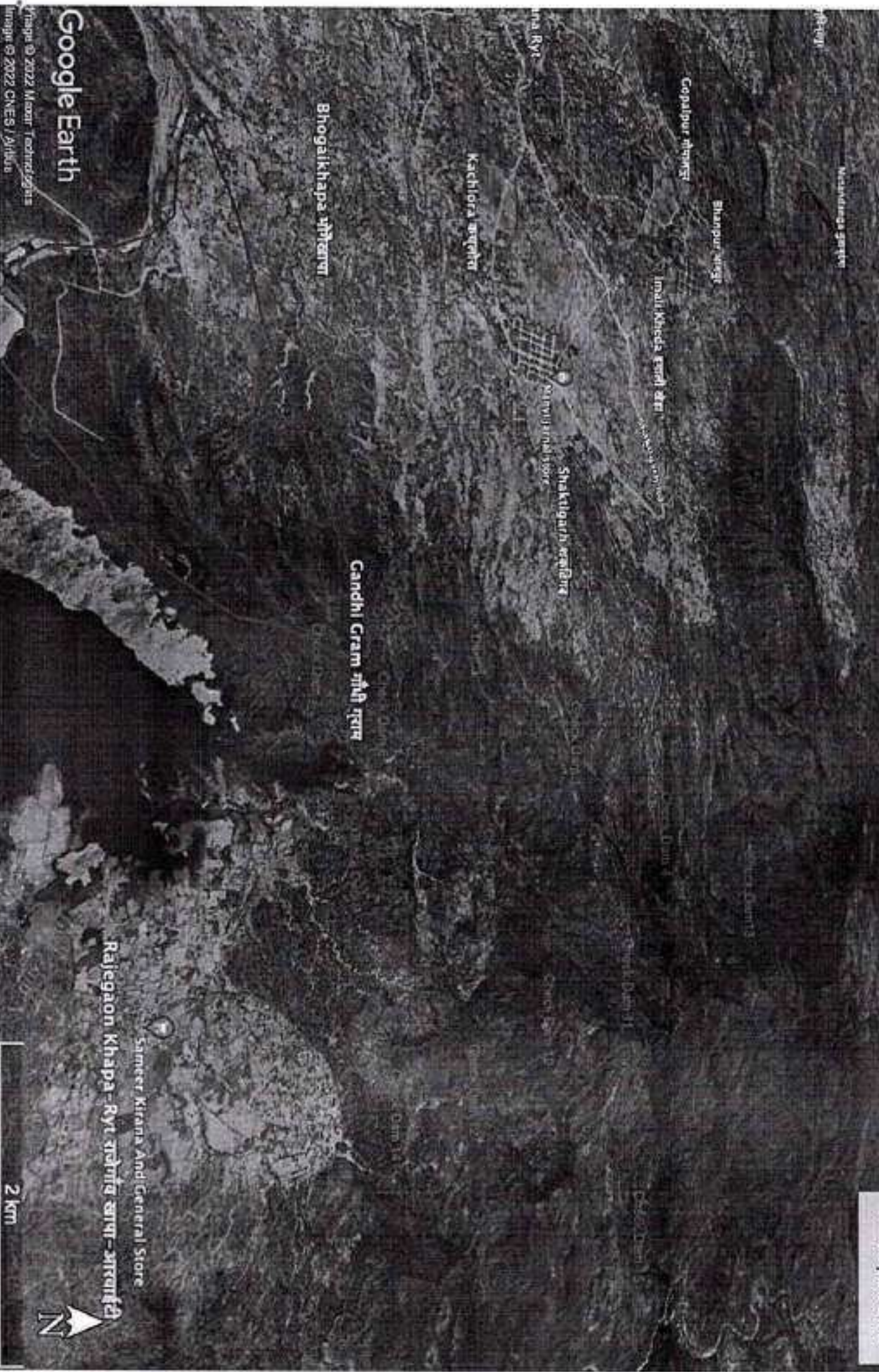
Sl. N.	Proposed Conservation Activity	Capital Cost(Amount in lakhs)
1	Construction of new check dams (15 nos) / pond in near by location of project Area for Wildlife conservation.	100.00
2	Maintenance of Existing Ponds Check Dams.	20.00
3	Training of Forest Staff, Villagers And General Public For Wildlife Conservation.	15.00
4	Public Awareness Programme through workshop seminars and booklet development for Wildlife conservation	20.00
<b>Total</b>		<b>155.00</b>

**6. Team For Preparation of Conservation Plan of WCL HQ Nagpur.**

The present conservation plan has been prepared by an expert team (Impaneled/in-house) of WCL, Nagpur.

# Location of Proposed Check Dam

Write a description for your map.



**Legend**

- Null
- Salpura Dam

Google Earth

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## 7. REFERENCES

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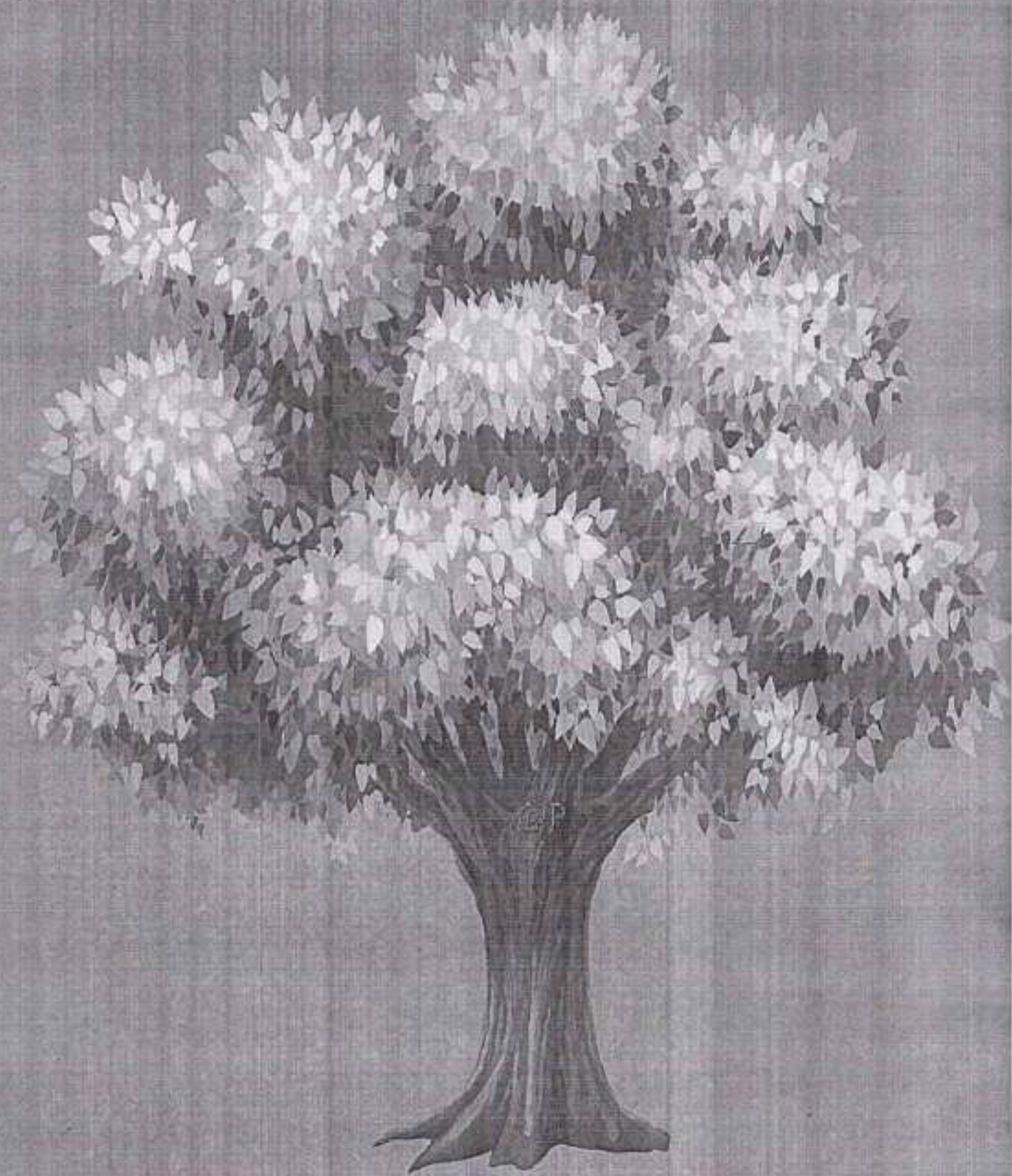
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Western Coal Fields Ltd Nagpur.

**PP should conduct a scientific study for knowing the exact status of ground water including static & dynamic range of ground water.**

**Compliance:** *In the following study, both Dynamic (Sub-sections 1.1 to 1.6) and Static (Sub-section 1.7) Groundwater Resources have been estimated for buffer zone (10 km radius) as per GEC 2015 guidelines in detail:*

In the Groundwater Resources estimation for buffer zone of Tawa-II UG Mine, the following inputs have been utilized such as: a) Aquifer Disposition of study area, b) Aquifer Characteristics, c) Historic Groundwater Levels, d) Groundwater Recharge which includes rainwater harvesting and artificial recharge in study area, are given in the sub-sections following Section 1 of GEC-2015 computations.

### **Dynamic and Static Groundwater Resource Estimation as per GEC-2015 guidelines**

#### **1. Groundwater Resource Potential**

##### **1.1 Annual Groundwater Recharge**

Rainfall is the major recharge source to groundwater. This area experiences an average annual rainfall of about 1338.88 mm for the year 2019-2023 (as per the WRIS data for the same period).

Part of the mine water discharged into the local drainage has been utilized by villagers for irrigational purposes and 20% is recharged to the groundwater system as a return flow.

For the purposes of groundwater budgeting (as per the GEC 2015 methodology), the whole area on a regional scale is considered to be a multi-aquifer system.

The groundwater recharge of the area by the rainfall for the monsoon and non-monsoon periods has been computed by the Rainfall infiltration factor method (RFIM). Similarly, Water Table fluctuation method (WTFM) has been used to estimate the groundwater recharge in any particular monsoon season for the associated monsoon season rainfall. After incorporating the geological map (**Figure 1**) over the study area in GIS software, the total sedimentary and hard rock area is computed. Total Sedimentary Area computed 362.22 km<sup>2</sup>, while the area for the Hard Rock was found to be 57.35 km<sup>2</sup>. As prescribed in the GEC-2015 guidelines, rainfall infiltration factor of 12% and 7% have been

considered for aquifer units of sedimentary formations and aquifer units of hard rock respectively in the study area. Likewise, the specific yield for sandstone and hard rock has been considered as 3% and 2% respectively.

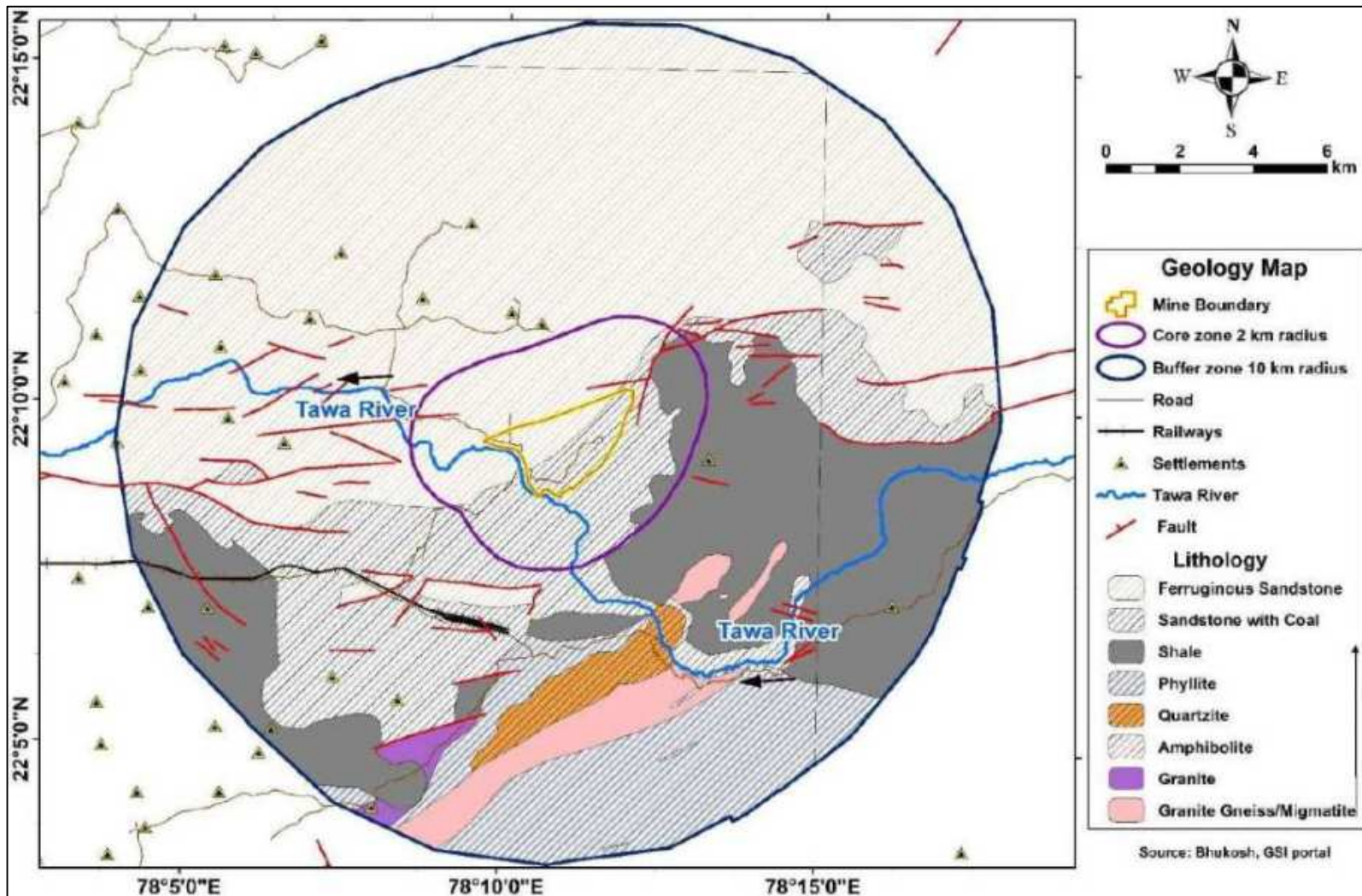
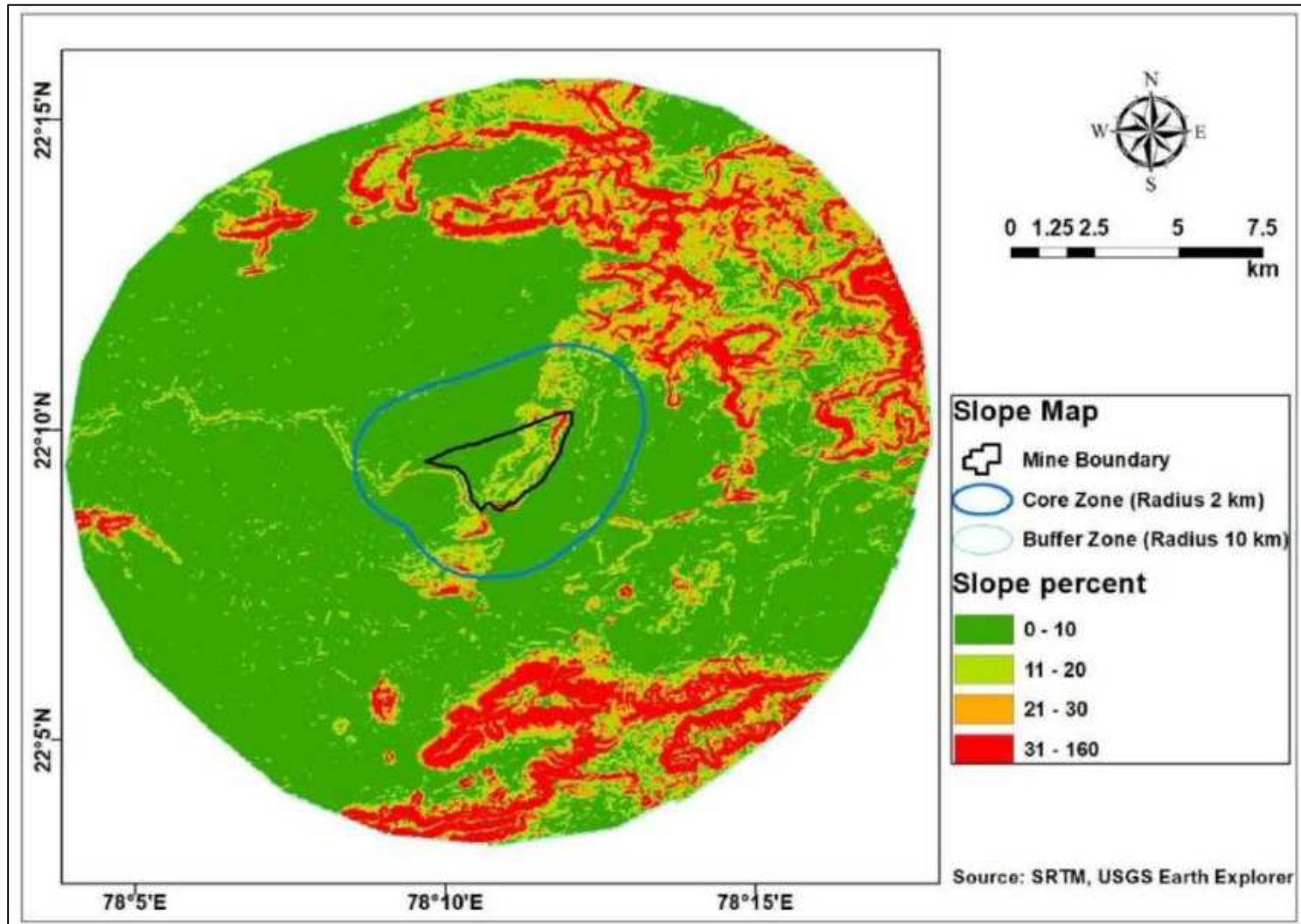


Figure 1: Map showing the Geology in and around Tawa-II UG Mine, Pathakhera Area, WCL

The slope map (**Figure 2**) is extracted from SRTM-DEM of 90 m spatial resolution (USGS website) and based on the various slope percent, the raster file is reclassified. Thus, the area of slope greater than 20 % was computed in GIS. Again, the area of the water bodies falling in the sedimentary and hard rock areas is calculated from the Survey of India Toposheet No. F44G4\_55J/4 in GIS. Thus, after deducting the hilly area (>20% slope) of about 58.67 km<sup>2</sup> for sedimentary area and 27.81 km<sup>2</sup> for hard rock area and thereafter deducting water body area of about 8.6 km<sup>2</sup> from the sedimentary area only, which accounts for the recharge, the total effective area that are considered for recharge estimation in sedimentary rock and hard rock (metamorphic) are 303.54 km<sup>2</sup> and 29.53 km<sup>2</sup> respectively.



*Figure 2: Slope percent map of Tawa-II UG Mine study area, Pathakhera Area, WCL*

Rainfall recharge due to Rainfall infiltration method (**Equation 1**) and Water table fluctuation method (**Equation 2**) is computed from the following equations:

$$\text{Rainfall Recharge (RFIM)} = (\text{Rainfall} - \text{minimum threshold}) \times \text{RFIF} \times \text{Area}$$

----- Eq. 1

Where,

RFIF = Rainfall infiltration factor

$$\text{Rainfall Recharge (WTFM)} = \text{Area} \times S_y \times \Delta h + \text{GE} - R_{\text{GWI}} - R_{\text{TP}} - R_{\text{WCS}} - R_{\text{MWI}}$$

-----Eq. 2

Where,  $S_y$  = Specific yield

$\Delta h$  = rise in water level during monsoon season

GE= Gross Groundwater extraction

$R_{\text{GWI}}$  = Recharge from groundwater irrigation

$R_{\text{TP}}$  = Recharge from tanks and ponds

Thus, the gross recharge is estimated as 38.57 M m<sup>3</sup>. Considering 10% as the natural losses (environmental flows) i.e. 3.86 M m<sup>3</sup>, the net annual groundwater recharge in the study area is estimated as 34.71 M m<sup>3</sup>. The detailed computations of groundwater recharge in the study area are provided in **Table 4**.

## 1.2 Groundwater Extraction

**a. Irrigation use:** From the generated Baseline Data, it is determined that the present irrigation area in the study area is 9258 ha. Based on the Ground Water Assessment Reports prepared for Ghoda Dongri Block (CGWB, 2022), irrigation draft for the proportional in the buffer zone has been estimated as 1.84 M m<sup>3</sup>.

**b. Community use:** For calculating the domestic water consumption, the population of 1,21,726 (as per census data 2011) is projected up to 2030 A.D (life of the mine) as 1,48,361 @ 1.36, and 0.81% annual growth rates for 2011-2021 and 2021-31 respectively (Census data and projections taken from Economic Survey 2018-19, IPSS for Maharashtra). The consumption rate in the study area has been considered as 60 lpcd (litre per capita per day).

The community groundwater use is thus projected as 3.31 M m<sup>3</sup>. The water demand by the various projects (industrial and domestic) in the study area is estimated as 0.71 M m<sup>3</sup>.

**Mine use:** Mines require water for both domestic and industrial uses (i.e. Domestic, Dust Suppression and Mine Operation). The projected domestic/ potable and industrial water demand of Tawa-II UG (0.86 MTPA) is estimated as 60 m<sup>3</sup>/day and 607 m<sup>3</sup>/day respectively and the details are shown in **Table 1** and **Figure 3**.

**Table 1: Projected peak water demand of Tawa-II UG Mine, Pathakhera Area, WCL.**

Purpose	Demand (m <sup>3</sup> /day)
<b>A. Industrial water demand</b>	<b>607</b>
1. Mine operation	150
2. Land reclamation	--
3. Dust suppression	398
a. Mobile Tanker	--
b. Fixed Sprinklers	340
c. Mist Canon	--
d. Road Watering	58
4. Green belt	--
5. Beneficiation (CHP)	--
6. Washerries	--
7. Fire service	4
8. Others (specify) Washing in workshop: Tyre Wash	--
9. Add for losses (10%)	55
<b>B. Domestic/Potable Water Demand</b>	<b>60</b>
1. Housing	--
2. Non-residential population	50
3. Other (specify) For service buildings	5
4. Process and other losses (10%)	5
<b>Total</b>	<b>667</b>

*Note: As per the Project Report, it has been proposed that the water demand for 1 continuous miner would be met from neighbouring Tawa UG Mine water. However, as it has been projected that in future, the mine seepage would be around 1328 m<sup>3</sup>/day therefore, this water demand of 150 KLD could be met from Tawa-II UG Mine itself.*

The above demand would be met from various sources of supply as below (**Table 2**):

**Table 2: Sources of water supply to Tawa-II UG Mine, Pathakhera Area, WCL.**

SI. No.	Source	Amount (m <sup>3</sup> /day)
1	Mine seepage water (sump/ pit)	667
2	Groundwater ( <i>Tube wells for domestic use/potable water</i> )	-
<b>Total, cum/day</b>		<b>667</b>

Thus the net water usage by the community in the study area that includes mine uses (0.71 M m<sup>3</sup>) and domestic water consumption by the local populace (2.60 M m<sup>3</sup>) would be around 3.31 M m<sup>3</sup>.

**c. Mine discharge:** The mine water pumping from the various projects in the study area is estimated as 3.57 M m<sup>3</sup>/year. Of this, 0.71 M m<sup>3</sup> treated mine water would be utilized by the mines to meet their industrial and domestic water demand. The excess mine-water during monsoon season will be discharged into the Tawa River, which is ultimately used by the local population for various uses. Thus, the net annual mine discharge in the area is projected as 2.86 M m<sup>3</sup>. The detailed computations for the groundwater draft have been provided in **Table 3**.

### 1.3 Projected groundwater inflow

The semi-consolidated Gondwana sediments are mostly stratified formations. The permeable beds (Sandstone horizons) Motur and Barakars act as individual hydrogeological units and develop multi-aquifer system. As such under these circumstances, the groundwater flow/velocity along the bedding planes is higher than across the plane. It is imperative that horizontal hydraulic conductivity is many folds higher than the vertical hydraulic conductivity.

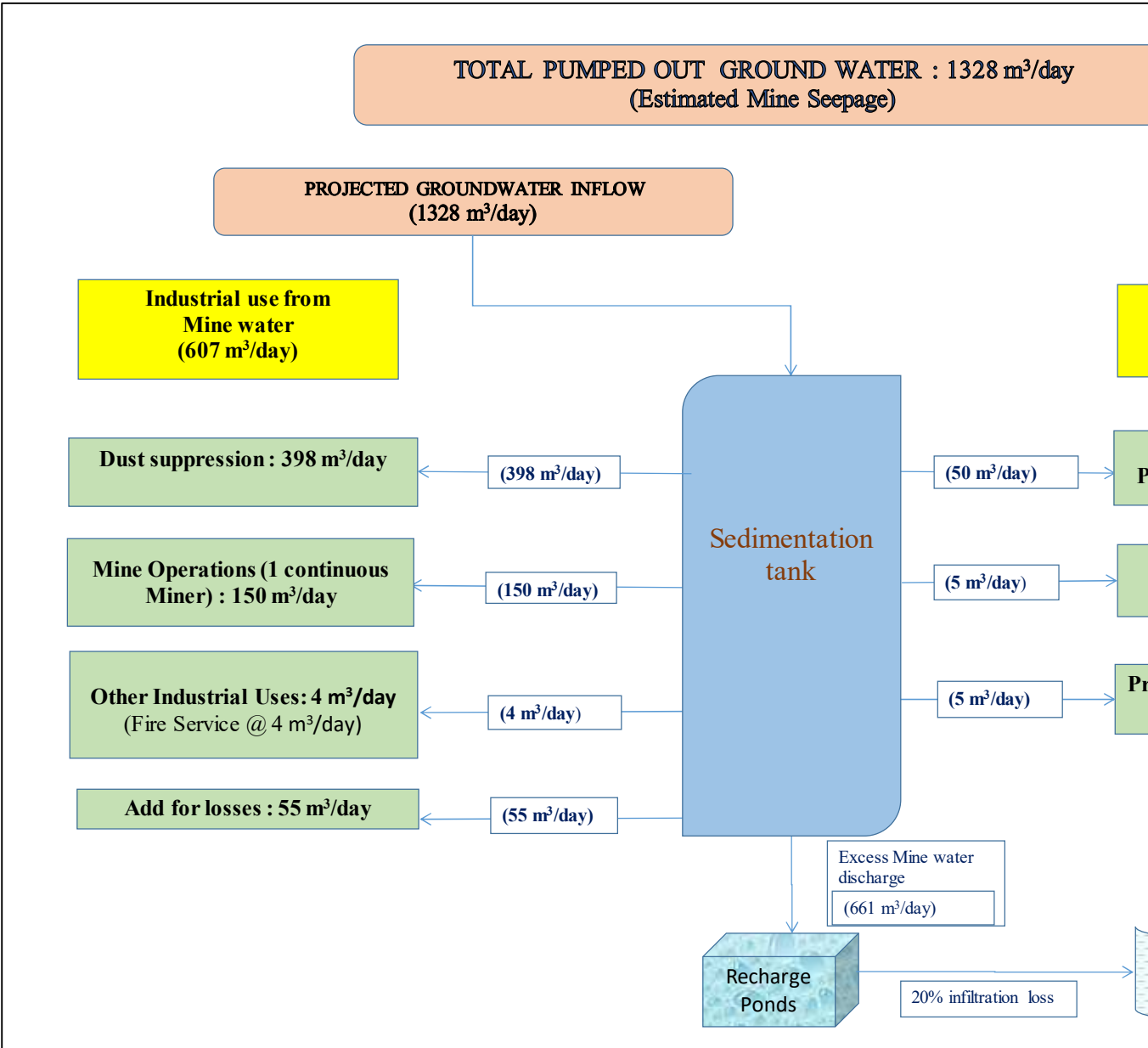
In underground mining, the unconfined aquifer is the least affected and the semi-confined/confined aquifer is most affected. The mine seepage & influence is directly proportional to the mine area and depth. Based on the Darcy's law (i.e.  $Q = KIA$ ), the groundwater inflow from exposed roof area has been predicted for 2029-30 (up to the life of mine), Where "K" is the hydraulic permeability in m/d, "I" is the hydraulic gradient, "A" corresponds to the Seepage Area in m<sup>2</sup>.

**Table 3: Mine inflow predictions for future development stage of Tawa-II UG Mine, Pathakhera Area, WCL**

<b>Aquifer above Seam</b>	<b>Total Workable Area</b>	<b>Development Area (50% of Total workable area) (a) (m<sup>2</sup>)</b>	<b>Depillaring Area (50% of Total mining area) (b) (m<sup>2</sup>)</b>	<b>Exposed Rooftop Area from Development (25% of a) (m<sup>2</sup>)</b>	<b>Exposed Rooftop Area from Depillaring (60% of b) (m<sup>2</sup>)</b>	<b>Total Exposed Area (a+b) (m<sup>2</sup>) (A)</b>	<b>Hydraulic Conductivity (m/day) (K)</b>	<b>Hydraulic Gradient (I)</b>	<b>Mine Seepage (m<sup>3</sup>/day) (KIA)</b>
<b>Aquifer above Lower Workable Seam</b>	4155733	2077867	2077866	519467	1246720	1766187	0.75	0.001	1325
<b>Aquifer above Bagdona Seam</b>	3033787	1516894	1516893	379223	910136	1289359	0.0022	0.001	3
									<b>1328 m<sup>3</sup>/day</b>

In the above **Table 3**, the inflow of water into the mine at future stages of development has been calculated. The make of water in the mine due to seepage from the formation in the future stages of development will be a maximum of about 1328 m<sup>3</sup>/day.

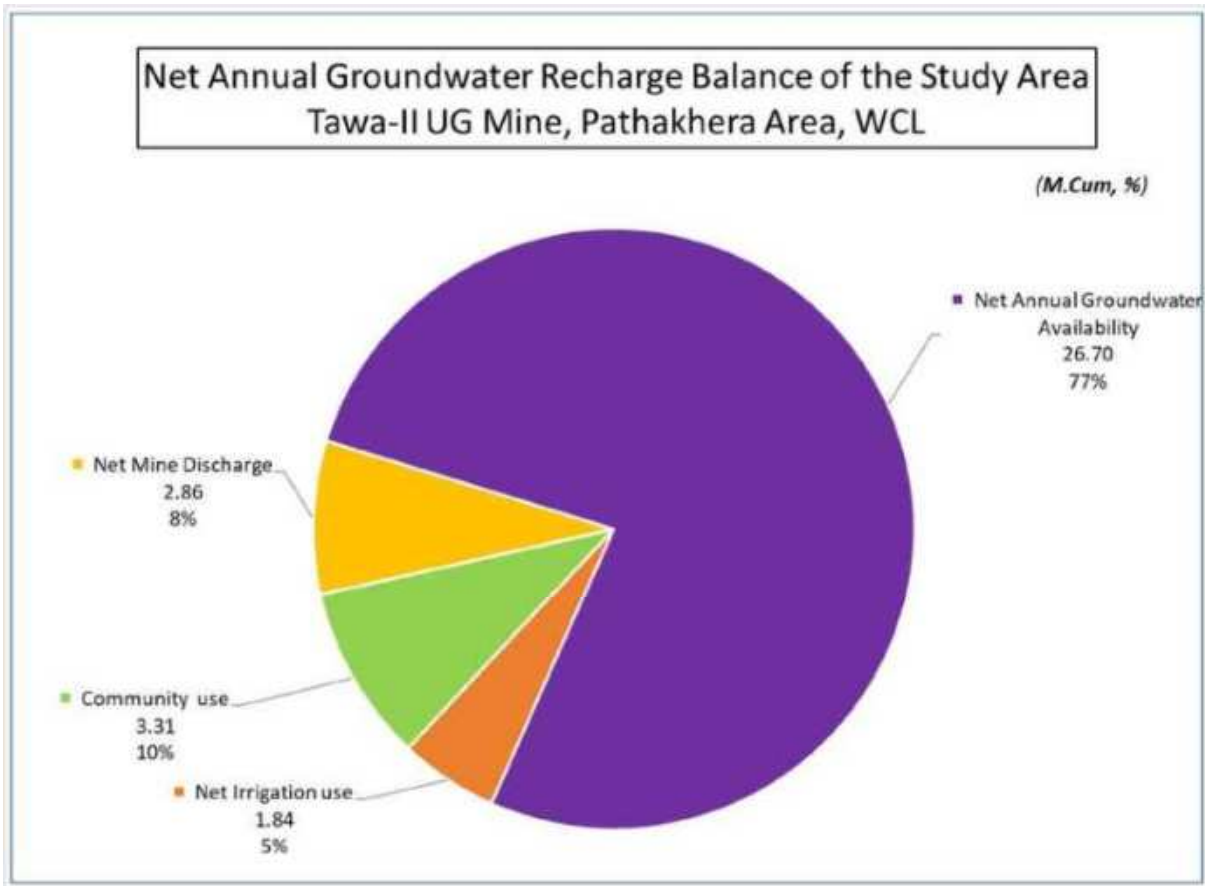
***However, with the spatial variation in aquifer parameters and recharge, the observed inflow may slightly deviate from that estimated.***



**Figure 3: Water usage diagram of Tawa-II UG Mine, Pathakhera Area, WCL**

#### 1.4 Balance Available Annual Extractable Groundwater Resource

The Annual Extractable Ground Water Resource (EGR) and Gross Annual Groundwater Extraction for 'All uses' (i.e., Net irrigation use, community use and Net annual mine discharge) in the buffer zone is estimated as 34.71 M m<sup>3</sup> and 8.01 M m<sup>3</sup> respectively. Thus, the Balance Available Annual Extractable Groundwater Resource is projected as 26.70 M m<sup>3</sup>. The detailed groundwater balance estimates are shown in **Figure 4, Figure 5, Figure 6 and Table 4, Table 5, Table 6, Table 7, Table 8, Table 9, Table 10.**



*Figure 4: Pie diagram depicting the groundwater recharge balance of the study area.*

**Table 4: Gross Annual Groundwater Extraction for 'All uses' in the study area.**

	GROUNDWATER EXTRACTION	Monsoon	Non-monsoon	Total
		M m <sup>3</sup>	M m <sup>3</sup>	M m <sup>3</sup>
<b>1</b>	<b>Net irrigation use</b>	<b>0.61</b>	<b>1.24</b>	<b>1.84</b>
<u>i.</u>	Proportional for 9258 Ha area {Draft from Irrigation in Ghoda Dongri development block }	0.61	1.24	1.84
<b>2</b>	<b>COMMUNITY USE (i+ii)</b>	<b>1.09</b>	<b>2.22</b>	<b>3.31</b>
<u>i.</u>	Projected population (i.e. 2030 AD) = 148361: (@ 60 lpcd) (i)	0.85	1.74	2.60
<u>ii.</u>	<b>Mine use (mine water &amp; tubewell):</b>			
1	Tawa UG	0.04	0.09	0.13
2	Tawa-II UG	0.08	0.16	0.24
3	Tawa-III UG	0.01	0.02	0.04
4	Sarni UG	0.03	0.07	0.10
5	Chhatarpur-I & II UG	0.07	0.13	0.20
	<b>Subtotal (ii)</b>	<b>0.23</b>	<b>0.48</b>	<b>0.71</b>
<b>3</b>	<b>Net Annual Mine Discharge</b>	<b>0.94</b>	<b>1.92</b>	<b>2.86</b>
1	Tawa UG	0.17	0.36	0.53
2	Tawa-II UG	0.16	0.33	0.48
3	Tawa-III UG	0.02	0.03	0.05
4	Sarni UG	0.28	0.57	0.85
5	Chhatarpur-I & II UG	0.55	1.12	1.66
	<b>Total</b>	<b>1.17</b>	<b>2.40</b>	<b>3.57</b>
<b>A) Total Mine Pumping in the Area (2(ii) +3)</b>		<b>1.17</b>	<b>2.40</b>	<b>3.57</b>
<b>B) Mine Use (-) (2ii)</b>		<b>0.23</b>	<b>0.48</b>	<b>0.71</b>
<b>C) Net mine discharge in the area (3)</b>		<b>0.94</b>	<b>1.92</b>	<b>2.86</b>
<b>D) Gross Annual Groundwater Extraction for 'All uses' in Buffer Zone (1 +2+3)</b>		<b>2.63</b>	<b>5.38</b>	<b>8.01</b>

**Groundwater recharge estimation of Tawa-II UG Mine study area (as per GEC 2015).**

*Table 5: Rainfall Recharge in the study area by Rainfall infiltration method*

Description of items			
<b>1</b>	<b>Area</b>	<b>333.07</b>	
	a. Sedimentary Area (km <sup>2</sup> )	303.54	
	b. Hard Rock Area (km <sup>2</sup> )	29.53	
<b>2</b>	<b>Normal Rainfall (mm) (Average from 2019-2023)</b>	<b>1338.88</b>	
	a. Normal monsoon season rainfall (mm) (June to Sept)	1185.52	
	b. Normal non-monsoon season rainfall (mm) (Oct to May)	153.37	
	c. Minimum threshold value of rainfall (mm)	133.88	
	d. Maximum threshold value of rainfall (mm)	3000	
	e. Monsoon rainfall in the year 2023	1066	
<b>3</b>	<b>Rainfall infiltration factor</b>	<b>Sedimentary</b>	<b>Hard Rock</b>
		<b>12%</b>	<b>7%</b>
<b>4</b>	<b>Rainfall recharge in the study area by rainfall infiltration factor method</b>	<b>40.48</b>	
	a. Monsoon season (M m <sup>3</sup> ) = [(1) * {(2d)-(2c)} * (3)/1000] if (2a) > (2d) = [(1) * {(2a)-(2c)} * (3)/1000] if (2a) <= (2d)	40.48	
	i) Sedimentary	38.31	
	ii) Hard Rock	2.17	
	b. Non-monsoon season (M m <sup>3</sup> ) = Nil if (2b) <= (2c) = [(1) * {(2b) - (2c)} * (3)/1000] if (2b) > (2c)	0.75	
	i) Sedimentary	0.71	
	ii) Hard Rock	0.04	
	Gross Rainfall Recharge [ a) + (b) ]	41.23	

**Table 6: Rainfall Recharge by Water Table Fluctuation Method during monsoon season**

Description of items			
<b>1</b>	<b>Area (km<sup>2</sup>)</b>	<b>Sedimentary</b>	<b>Hard Rock</b>
		<b>303.54</b>	<b>29.53</b>
<b>2</b>	<b>Water table fluctuation (m)</b>	<b>2.64</b>	<b>3.50</b>
<b>3</b>	<b>Specific yield</b>	<b>0.03</b>	<b>0.02</b>
<b>4</b>	<b>Change in groundwater storage [ (1) * (2) * (3) ] (M m<sup>3</sup>)</b>	<b>24.04</b>	<b>2.07</b>
<b>5</b>	<b>Total (M m<sup>3</sup>)</b>	<b>26.11</b>	
<b>6</b>	<b>Gross groundwater extraction for 'All Uses' during monsoon season (From Table No.13) (M m<sup>3</sup>)</b>	<b>2.63</b>	
<b>7</b>	<b>Recharge from 'Other Sources' during monsoon season (M m<sup>3</sup>)</b>	<b>1.79</b>	
	a. Return flow from Irrigation [ 25 % of Irrigation Draft ]	0.15	
	b. Return flow from Excess mine water [ 20% as seepage factor]	0.19	
	c. Recharge through water bodies in the area: (8.6 km <sup>2</sup> x 0.0014 m/d x 120)	1.44	
	d. Recharge through RTRWHS (Existing +Proposed)	0.010	
<b>8</b>	<b>Rainfall Recharge (M m<sup>3</sup>) [ (5) + (6) - (7) ]</b>	<b>26.95</b>	
<b>9</b>	<b>Rainfall Recharge after Normalization (M m<sup>3</sup>)</b>	<b>29.97</b>	

**Table 7: Rainfall Recharge after comparing results from Water Table Fluctuation Method and Rainfall Infiltration Factor Method during monsoon season.**

Description of items		Quantity
1	Rainfall Recharge during monsoon season	
	a. By Water Table Fluctuation Method (M m <sup>3</sup> )	29.97
	b. By Rainfall Infiltration Factor Method (M m <sup>3</sup> )	40.48
2	Difference between (1a) and (1b) expressed as a percentage of (1b), 'PD'  $PD = \frac{[(1a) - (1b)]}{(1b)} * 100$	-25.97
3	Rainfall Recharge in the study area during monsoon season after considering the 'PD'	<b>32.38</b>
	[ = (1a) if 'PD' is between -20 and +20%	
	= 0.8 * (1b) if 'PD' is less than -20%	
	= 1.20 * (1b) if 'PD' is greater than +20% ]	

**Table 8: Net Annual Groundwater Availability in the study area for Dynamic Groundwater Resources**

Description of items		M m <sup>3</sup>
1	Rainfall Recharge in the study area	<b>33.13</b>
	a. During Monsoon season (Rainfall Infiltration Method)	32.38
	b. During Non-monsoon season (Rainfall Infiltration Method)	0.75
	c. Annual [ (1a) + (1b) ]	33.13
2	Recharge from 'Other Sources'	<b>5.44</b>
a.	During Monsoon season	<b>1.79</b>
	Return flow from Irrigation [25 % of Irrigation Draft ]	0.15
	Return flow from Excess mine water [20% as seepage factor]	0.19
	Recharge through water bodies in the area: (8.6 km <sup>2</sup> x 0.0014 m/d x 120)	1.44
	Recharge through RTRWHS (Existing +Proposed)	0.0099

b.	During Non-monsoon season	<b>3.64</b>
	Return flow from Irrigation [25 % of Irrigation Draft ]	0.31
	Return flow from Excess mine water [20% as a seepage factor	0.38
	Recharge through water bodies in the area: (8.6 km <sup>2</sup> x 0.0014 m/d x 245)	2.95
	Recharge through RTRWHS	0.00129
	c. Annual [ (2a) + (2b) ] M m <sup>3</sup>	5.44
3	Are Environmental Flows assessed (Yes/No)	No
<b>4</b>	<b>Total Annual Groundwater Recharge [ (1c) + (2c) ]</b>	<b>38.57</b>
5	Environmental flows in (M m <sup>3</sup> )	<b>3.86</b>
	a. [ 0.05 * (4) ] if response to (3) is "NO" and rainfall recharge during monsoon season computed by 'Water table Fluctuation Method'	
	b. [ 0.10 * (4) ] if response to (3) is "NO" and rainfall recharge during monsoon season is "NOT" computed by 'Water table Fluctuation Method'	✓
6	Annual extractable ground water resource (EGR) in the study area [(4) – (5)] M m <sup>3</sup>	<b>34.71</b>
7	Annual Gross Groundwater extraction for all uses in the study area	<b>8.01</b>
8	Balance available annual extractable groundwater resource (Annual extractable ground water resource (EGR) – Gross annual groundwater extraction)	<b>26.70</b>

\* RTRWHS: Roof Top Rainwater Harvesting

**Table 9: Gross Groundwater Extraction for all uses in the study area.**

Description of items	Monsoon season	Non-monsoon season	Total
1. Gross Groundwater extraction of the study area	(M m <sup>3</sup> )	(M m <sup>3</sup> )	(M m <sup>3</sup> )
a. Irrigation extraction	0.61	1.24	1.84
b. Community Water extraction	1.09	2.22	3.31
c. Industrial extraction (Net Mine Discharge)	0.94	1.92	2.86

<b>d. 'All Uses'</b> <b>[ (1a) + (1b) + (1c) ]</b>	<b>2.63</b>	<b>5.38</b>	<b>8.01</b>
2. Annual Gross Groundwater Extraction for 'All uses in the study area [sum of monsoon and non-monsoon season]	<b>8.01</b>		

**Table 10: Stage of Groundwater Extraction in the study area.**

Description of items	Buffer Zone
1. Stage of Groundwater Extraction	
a. Net Groundwater Availability (M m <sup>3</sup> )	34.71
b. Annual Gross Groundwater Extraction (M m <sup>3</sup> )	8.01
c. Balance Available Annual Groundwater Recharge (M m <sup>3</sup> )	26.70
d. Stage of Groundwater Extraction [ $\{(1b) / (1a)\} * 100$ ]	<b>23.08%</b>

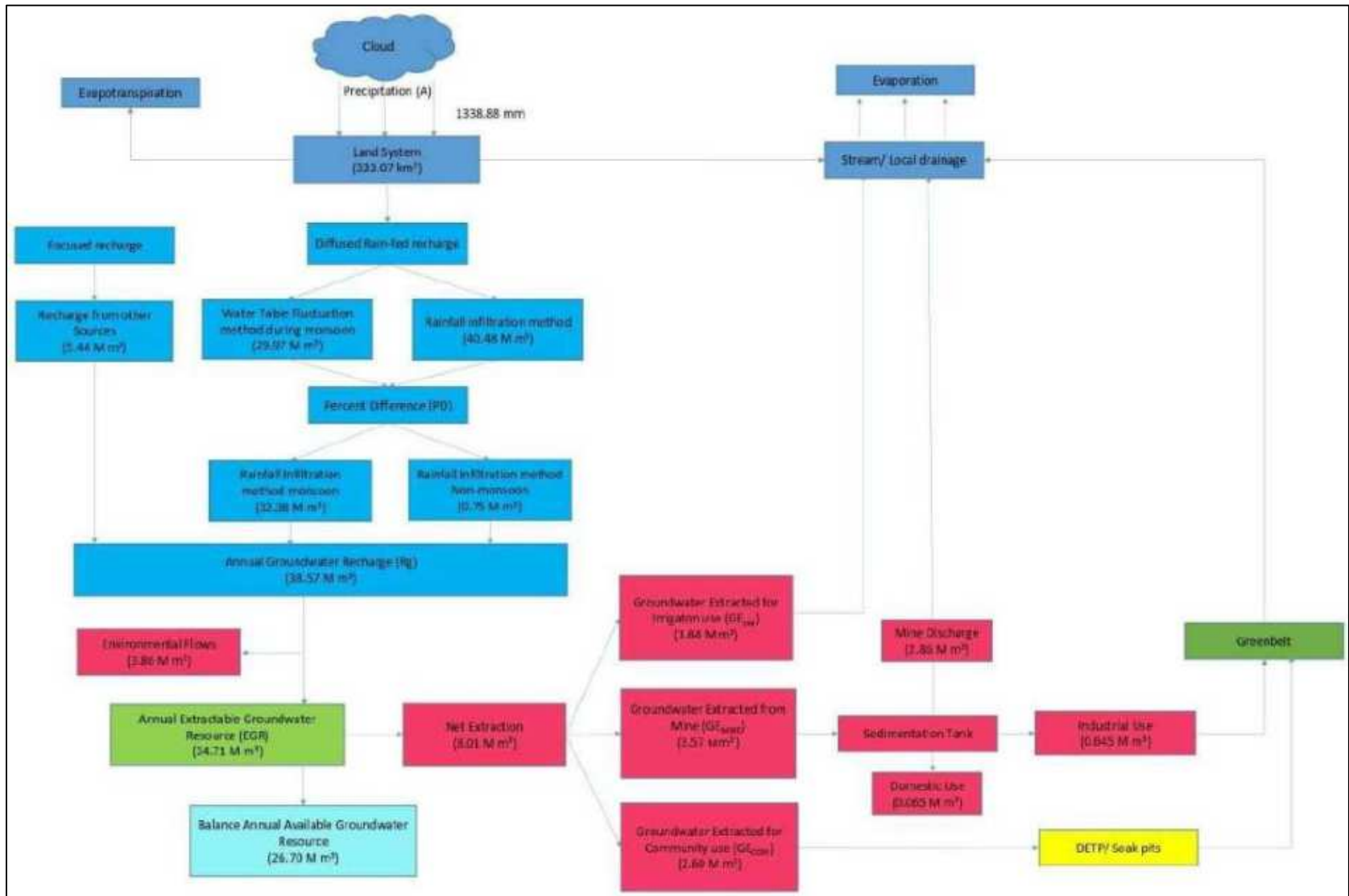
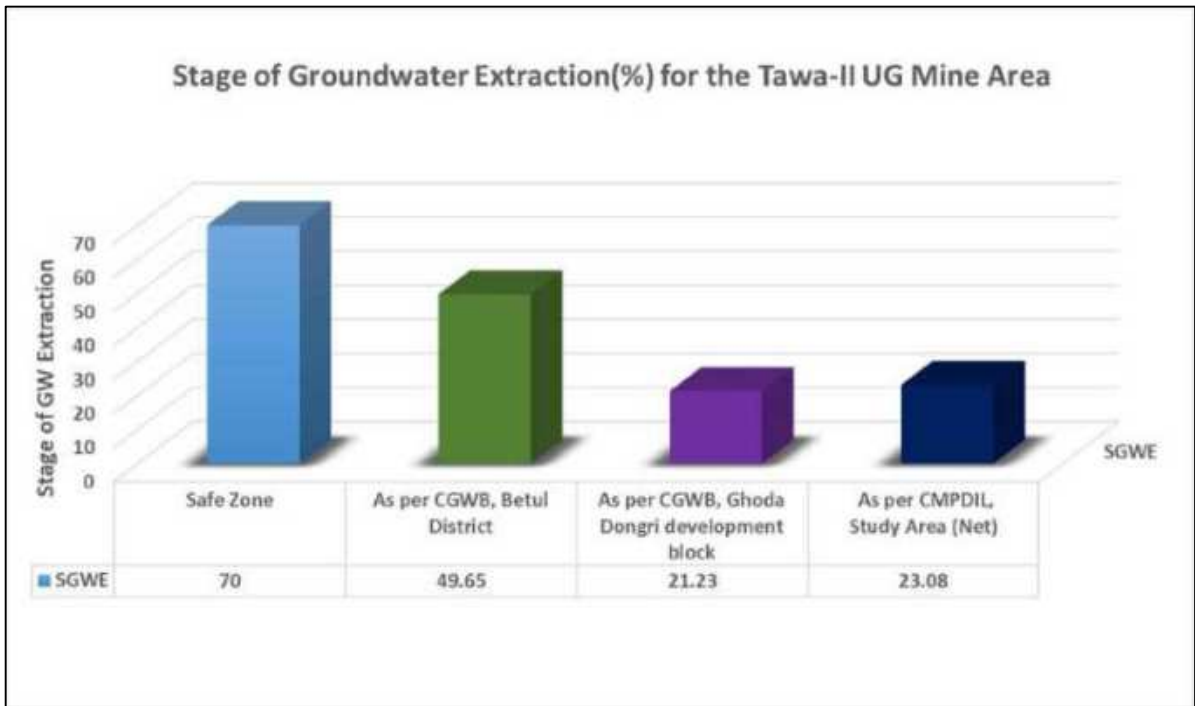


Figure 5: Groundwater recharge balance flow diagram of Tawa-II UG Mine study area.

## 1.5 Stage of Ground Water Extraction

Coal mining is the major industrial development activity in the area. The Central Ground Water Board, has reported in the INDIA-Groundwater Resource Estimation System (IN-GRES)” web portal that the stage of Groundwater extraction in the Ghoda Dongri Block (where the Tawa-II UG Mine is located) is 21.23 % and hence the region lies within the “Safe” category. The overall stage of groundwater extraction in Betul district was reported as **49.65 %** by CGWB in the *Dynamic Groundwater Resources of Madhya Pradesh-2022*, and falls under the “Safe” category. The Stage of groundwater extraction for the project area has also been determined as about 23.08 % by CMPDIL for the Tawa-II UG Mine study area, which is also under the ‘Safe’ category. These have been represented in the **Figure 6** below:



**Figure 6: Stage of Ground Water Extraction in the study area.**

## 1.6. Validation of Stage of Ground Water Extraction

To check the validity of the groundwater budgeting exercise carried out in aforementioned **Section 1.4** and **Table 11**, the depth to ground water level recorded by the WCL Unit, Pathakhara (Madhya Pradesh) during both the pre-monsoon and post-monsoon season in two different observation wells [Bhogaikhapa (PK-5) and Ghogri (PK-17)] for 18 years (2006 to 2023) (**Table 18**) is used for linear regression analysis to establish the trend of ground water levels in the study area (**Table 19** and **Table 20**). Thereby, the obtained

water level trends are compared with the Stage of Ground Water Extraction (**Table 11** and **Table 12**).

**Table 11: Validation of Stage of Ground Water Extraction as proposed in GEC 2015.**

SoGWE	Ground Water Level Trend	Remarks
≤70%	Significant decline in trend in both pre-monsoon and post-monsoon	Not acceptable and needs reassessment
>100%	No significant decline in both pre-monsoon and post-monsoon long term trend	Not acceptable and needs reassessment

**Table 12: Validation of Stage of Ground Water Extraction with ground water level trends in the Tawa UG Mine study area as per GEC 2015 stipulations.**

SoGWE as per CMPDIL	Category	Ground Water Level Trend (cm/year)				Critical values	Remarks
		Bhogaikhapa (PK-5)		Ghogri (PK-17)			
		pre-monsoon	post-monsoon	pre-monsoon	post-monsoon		
23.08	Safe (≤70%)	- 15.45	- 29.54	- 9.15	- 10.14	Neither rising nor falling when > -10 to 10, while Rise when <-10 cm and	Acceptable, since there is no significant decline trend in both pre-monsoon and post-monsoon together.

It is apparent from the above assessment (**Table 12**) that the groundwater budgeting exercise carried out in the study area is acceptable since there is no significant decline in ground water level trends in both pre-monsoon and post-monsoon together. Hence, the computations undertaken here in this study stand validated with accuracy and precision.

### **1.7. Static or In-Storage GW Resources**

#### **Assessment of In-Storage Ground Water Resources or Static Ground Water Resources**

The quantum of ground water available for development is usually restricted to long term average recharge or dynamic resources. Presently there is no fine demarcation to distinguish the dynamic resources from the static resources. While water table hydrograph could be an indicator to distinguish dynamic resources, at times it is difficult when water tables are deep. Assessment of In-storage ground water resources has assumed greater significance in the present context, when an estimation of Storage Depletion needs to be carried out in Over-exploited areas. Thus In-storage computation is necessary not only for estimation of emergency storage available for utilisation in case of natural extremities (like drought) but also for an assessment of storage depletion in over-exploited areas for sensitising stakeholders about the damage done to the environment. The computation of the static or in-storage ground water resources may be done after delineating the aquifer thickness and specific yield of the aquifer material. The computations can be done as follows Eq.3: -

$$SGWR = A * (Z2 - Z1) * Sy..... Eq.3$$

Where,

SGWR = Static or in-storage Ground Water Resources

A = Area of the Assessment Unit

Z2 = Bottom of Unconfined Aquifer

Z1 = Pre-monsoon water level

SY = Specific Yield in the In-storage Zone

#### **Assessment of Total Ground Water Availability in Unconfined Aquifer**

The sum of Annual Exploitable Ground Water Resource and the “**In-storage ground water resources**” of an unconfined aquifer is the Total Ground Water Availability of that aquifer.

**Total Ground Water Availability in Unconfined Aquifer (TGWA) = EGR +SGWR**

**Balance total annual extractable groundwater resource available in Unconfined Aquifer (BTGWA) = (EGR- Gross annual groundwater extraction) +SGWR**

Assessment of In-Storage Groundwater Resources or Static Groundwater Resources has been carried out in the **Table 13 and Table 14** below and picture representation diagram for the same has been given in the **Figure 7** below.

**Table 13: Assessment of In-Storage Groundwater Resources or Static Groundwater Resources**

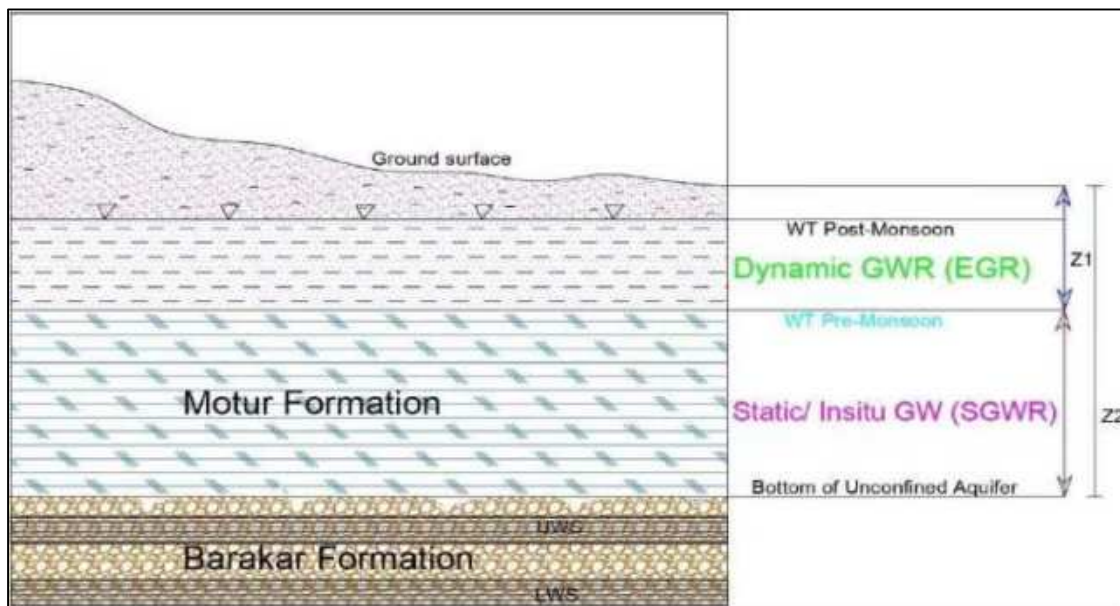
II. Assessment of In-Storage Ground Water Resources or Static Ground Water Resources of Unconfined Aquifer			
Assessment of Static or in-storage Ground Water Resources of Unconfined Aquifer			
Description of items			
1	Area (km <sup>2</sup> )	Sedimentary	Hard Rock
		303.54	29.53
2	Z2 - Z1	69.8	69.8
3	Specific yield	0.15	0.015
4	Static or in-storage Ground Water Resources [ (1) * (2) * (3) ] (M m <sup>3</sup> )	3178.06	30.92
5	Total (M m <sup>3</sup> )	<b>3208.98</b>	

Note: Z1 - Pre-Monsoon Water Level = 8.70 m

Z2 - Bottom of Unconfined Aquifer = 78.5 m

**Table 14: Assessment of Assessment of Total Ground Water Availability in Unconfined Aquifer**

Assessment of Total Ground Water Availability in Unconfined Aquifer		
1	TGWA (M m <sup>3</sup> )	<b>3243.70</b>
2	Balance total annual extractable groundwater resource available in Unconfined Aquifer (M m <sup>3</sup> )	<b>3235.69</b>



**Figure 7: Static and Dynamic Groundwater Resources**

## 1.8 Inference

After attempting the detailed Ground Water Resource Estimation both Dynamic as well as Static Ground Water Resource it is observed that: the Total Ground Water Availability in Unconfined Aquifer (TGWA) which is sum of 'Extractable Ground Water Resource' (EGR) and 'Static Ground Water Resource' (SGWR) is estimated as 3243.70 Mm<sup>3</sup> (i.e. 34.71 Mm<sup>3</sup> + 3208.98 Mm<sup>3</sup>, respectively). Out of this TGWA, 'Gross Annual Extraction' is estimated to the tune of 8.01 Mm<sup>3</sup>. Therefore, 'Balance Total Annual Extractable Groundwater Resource' or BTGWA available in Unconfined Aquifer is 3235.69 Mm<sup>3</sup> (i.e. BTGWA = (TGWA – Gross Annual Extraction)).

From, this it is inferred that, as the 'Gross Annual Extraction (8.01 Mm<sup>3</sup>)' is less than the Extractable Ground Water Resource (Dynamic Resource of 34.71 Mm<sup>3</sup>) and the Stage of Ground Water falls under 'Safe' Category so, the Static Ground Water Resource (SGWR) remains unaffected as per the estimation.

## 2. Essential Inputs for GEC-2015 Groundwater Resources Estimation

### 2.1 Aquifer Disposition in the study area

Detrital mantle/soil along with some part of Motur formation (upto 25-30 m depth) represents the shallow aquifer. Motur formation (beyond 25-30 m depth), Barakar Sandstone above the Upper Workable Seam and Motur Formation and between the coal seams represents the deeper aquifer in the study area.

The aquifers of the study area can be broadly classified as:

#### **A. Shallow Aquifer:**

The shallow aquifer is composed of alluvium (sandy and clayey soil) and Motur formation (upto 25-30 m depth). Motur formation contains medium to coarse grained sandstone with variegated clays.

#### **B. Deeper Aquifer:**

The deeper aquifer is represented mainly by the Barakar Formation and Motur formation (present beyond 25-30 m depth). Presence of variegated clay in Motur formation reduces the potentiality of the aquifer. Occurrence of this impermeable coal seams/shale repeatedly also affects the potentiality of the aquifer in adverse way.

The types of aquifers encountered in the study area are given below in **Table 15**:

**Table 15: Aquifer disposition at Tawa-II UG Mine area.**

Hydrogeological unit		Formation	Thickness (m)
Shallow Aquifer	Unconfined aquifer	Alluvium	0.70 to 15.45
	Unconfined / Semi-Confined aquifer	Motur (upto the depth of 25-30 m)	Up to 225.34
Deeper Aquifer (Poor Potential)	Semi Confined Aquifer	Motur (beyond 25-30 m)	
	Semi confined / Confined Aquifer	Upper Barakar Formation	5.61 to 121.60
	Aquiclude	Upper Workable Coal Seam	0.18 to 1.62
	Confined Aquifer	Parting (consisting of sandstone)	7.70 to 19.51
	Aquiclude	Lower Workable Coal Seam	1.34 to 3.34
	Confined Aquifer	Parting (consisting of intercalation of shale and sandstone)	42.04 to 63.59
	Aquiclude	Bagdona Coal Seam	0.92 to 2.22
	Confined Aquifer	Parting (consisting of sandstone with shale)	28.85 to 50.45
	Aquiclude	Coal Seam (Seam IA)	0.45 to 2.02
	Confined Aquifer	Parting (consisting of sandstone)	0.52 to 6.69
	Aquiclude	Coal Seam (Seam IB)	0.36 to 1.25

## 2.2 Aquifer Characteristics

Detailed hydrogeological investigations were carried out at Tawa Mine area by CMPDI in June, 1996. The aquifer parameters, thus evaluated have been attributed for the study area and are given below in **Table 16**:

**Table 16: Aquifer Parameters of Tawa-II UG Mine Area**

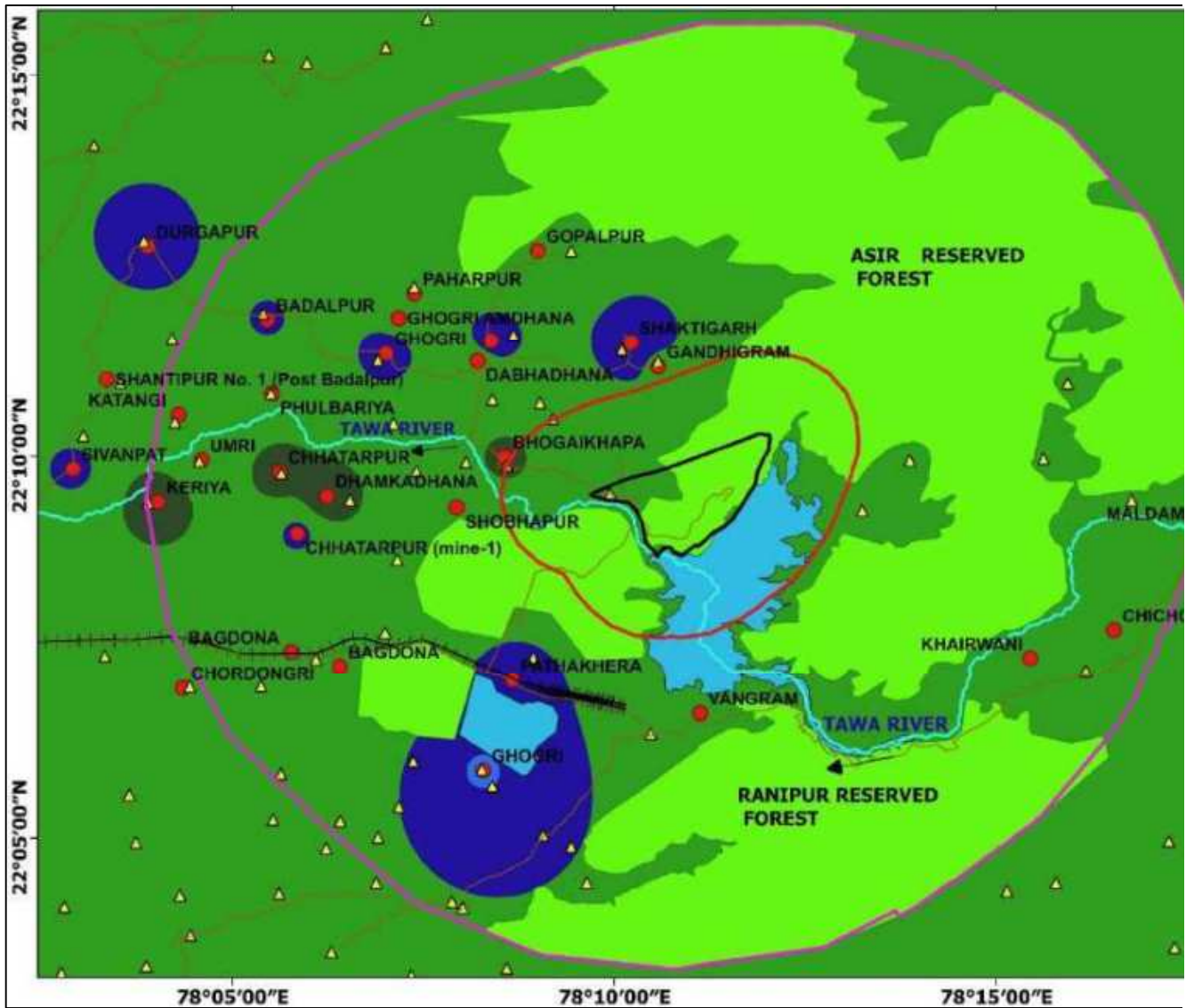
Sl. No.	Aquifer Parameter	Unconfined aquifer	Confined aquifer
1.	Transmissivity ( m <sup>2</sup> /day)	6.20	1.2 x 10 <sup>-1</sup>

2.	Hydraulic conductivity (m/day)	1.50	$2.2 \times 10^{-3}$
3.	Storage coefficient/ Specific Yield (S/S <sub>y</sub> )	0.03	$1.0 \times 10^{-3}$

(Ref: Report on Hydrogeological studies at Tawa Mine Area, Pathakhera Coalfield, Betul district, Madhya Pradesh, June 1996.)

### 2.3 Depth to Water Level in study area

A network consisting 26 dug wells, covering most of the villages falling within the core and buffer zone, were selected for the study area. The observation wells location has been shown in the **Figure 8** The wells are mostly used for domestic water needs. The depth to water level in the observation wells were recently monitored during the pre-monsoon period (May 2023) and post-monsoon season (Nov 2023) by Anacon Laboratories Ltd., Nagpur. **(Figure 9 and Figure 10)** The said data has been provided by WCL, and the details are given in



*Figure 9: Depth to Water Level map of Pre-monsoon (May 2023), in and around Tawa-II UG Mine, Pathakhera Area, WCL.*

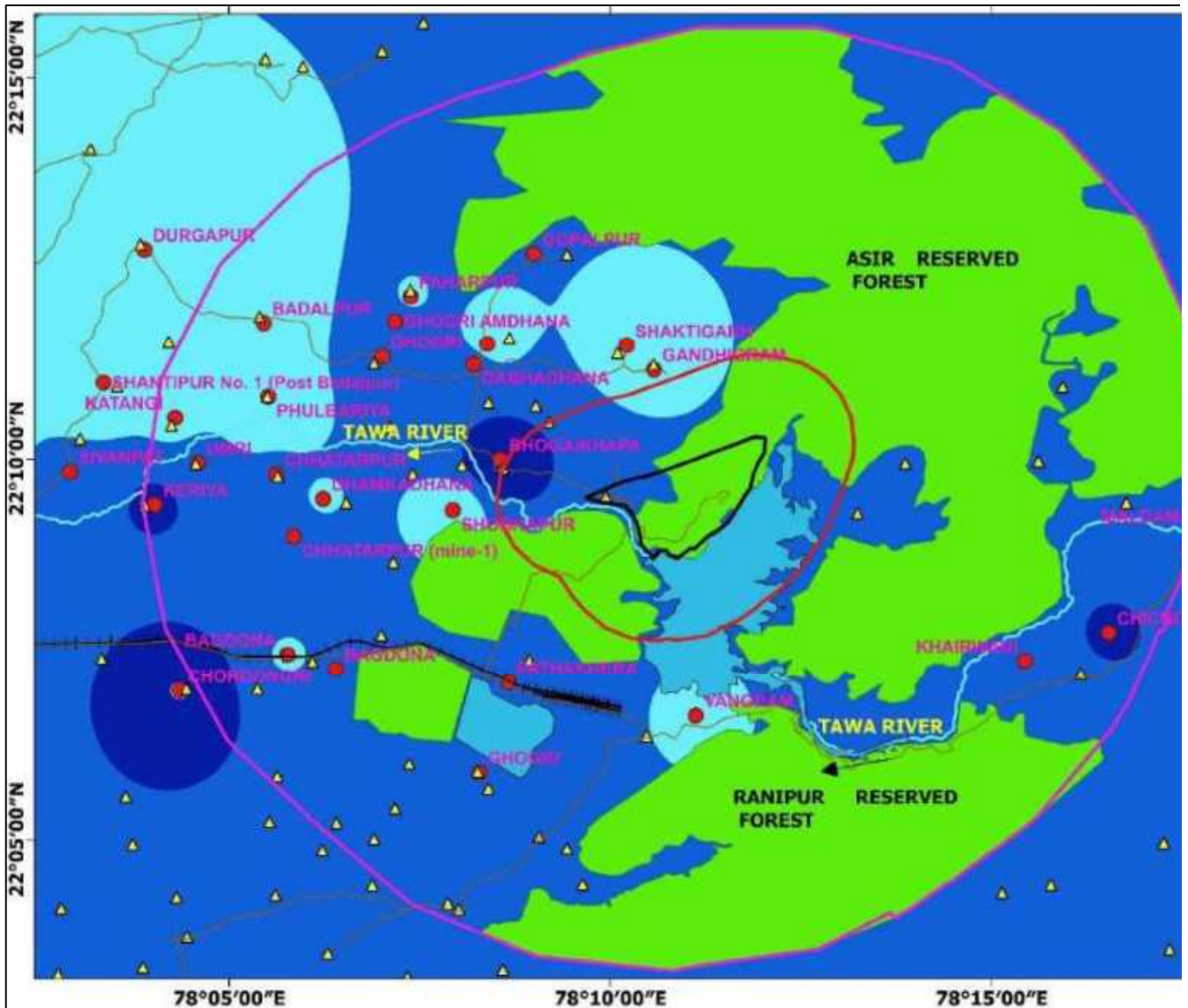
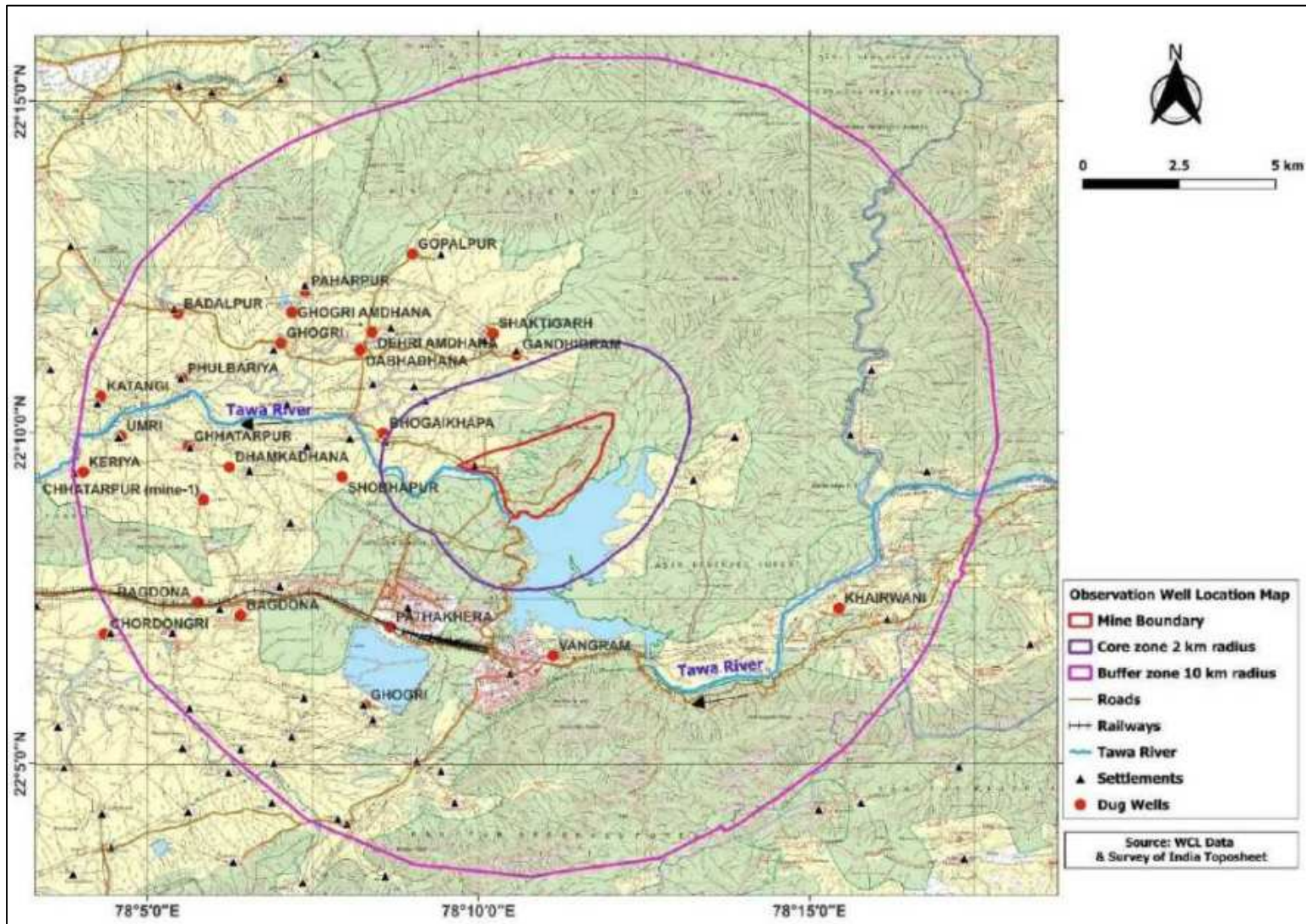


Figure 10: Depth to Water Level map of Post-monsoon (Nov 2023), in and around Tawa-II UG Mine, Pathakhera Area, WCL.

Table 17.

The water level fluctuation map is shown in **Figure 11**, that is used for Water Level Fluctuation method in GEC-2015 computation.



**Figure 8: Map showing the locations of monitoring wells in and around Tawa-II UG Mine, Pathakhera Area, WCL**

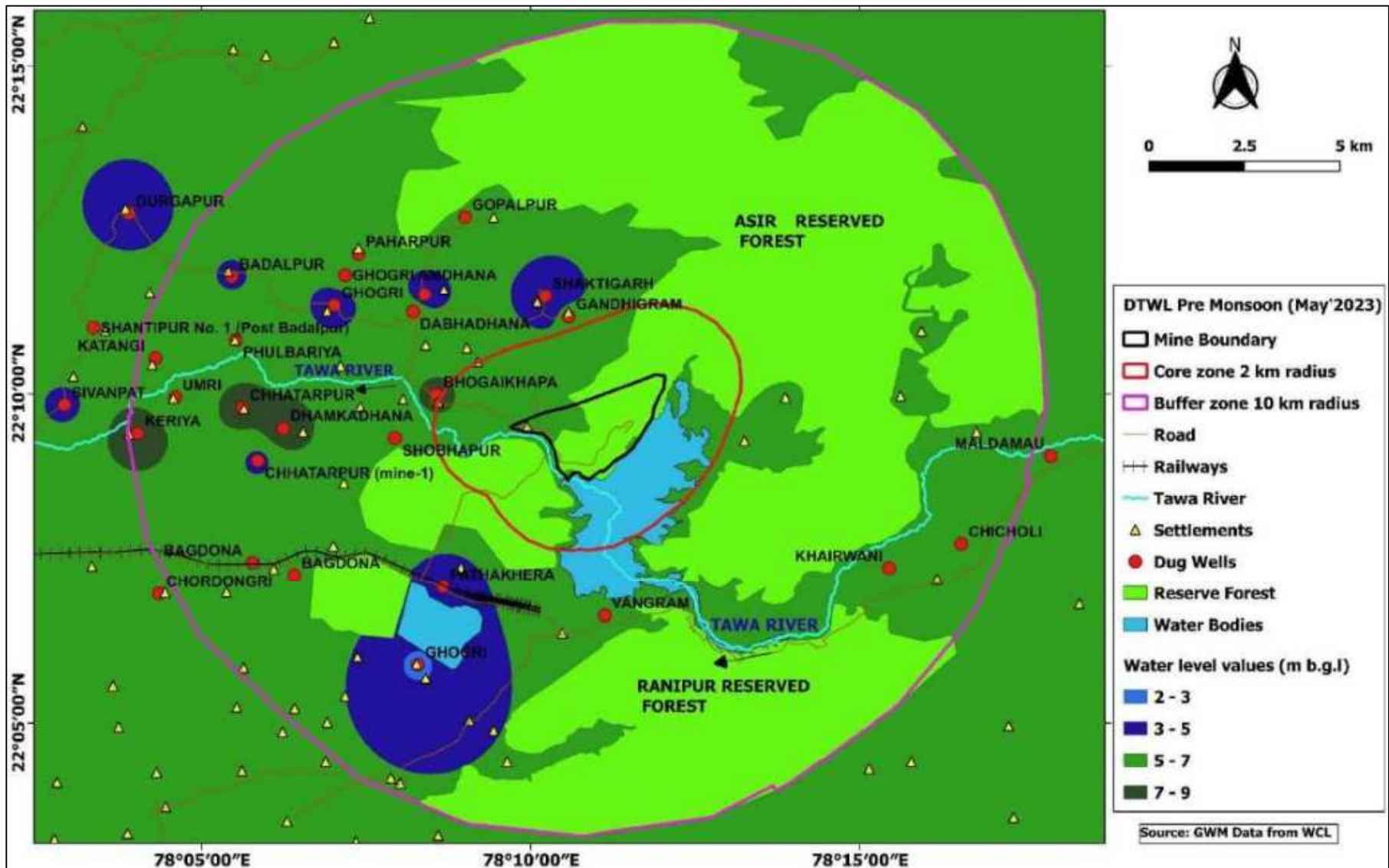


Figure 9: Depth to Water Level map of Pre-monsoon (May 2023), in and around Tawa-II UG Mine, Pathakhera Area, WCL.

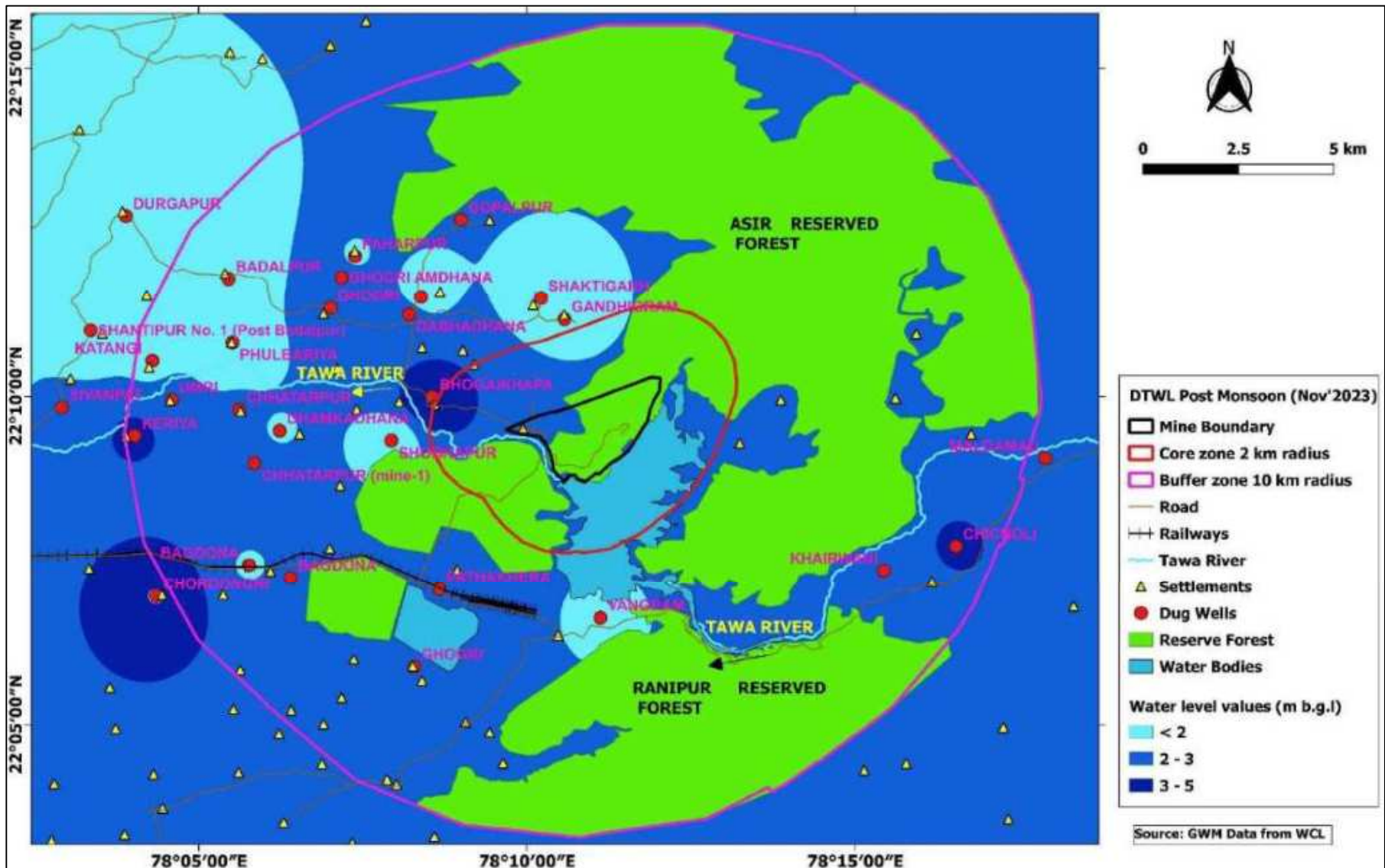


Figure 10: Depth to Water Level map of Post-monsoon (Nov 2023), in and around Tawa-II UG Mine, Pathakhera Area, WCL.

**Table 17: Well inventory details for Tawa-II UG study area, Pathakhera Area, WCL.**

S.No.	Name	Village	Owner	Lat (N)	Long (E)	RL (m)	Well Diameter (m)	Well Depth (m bmp)	Parapet (m agl)	DTWL_Pre-monsoon (May'23)_m bgl	DTWL_Post-monsoon (Nov'23)_m bgl
<b>Core Zone (up to 2 Km radius)</b>											
1	PK5	BHOGAIKHAPA	Mulan Marskole	22.16652	78.14269	421	3.55	15.9	0.55	7.50	5.20
<b>Buffer Zone (up to 10 Km radius)</b>											
2	PK4	SHOBHAPUR	Jaru Uike	22.15551	78.1323	422.9	5.3	10	0.65	5.90	2.80
3	PK2	BAGDONA	Munna Pawar	22.12396	78.09613	430.5	3.75	16	0.5	5.70	3.00
4	PK3	PATHAKHERA	Temple authority	22.11776	78.14445	453.3	1.4	6	1	4.60	2.50
5	PK6	GHOGR	Sukhlal Andekar	22.18919	78.11687	419.5	3.4	8.05	0.6	4.20	3.40
6	PK7	BADALPUR	GP	22.19655	78.09095	431	4.25	11	0.4	4.80	1.60
7	PK11	GHOGR AMDHANA	Dama & Salam	22.19691	78.11966	420.6	5.5	9.9	0.7	5.40	3.70
8	PK11A	PAHARPUR	Sri Mahesh Gupta	22.20229	78.12305	425.8	4.2	12	0.85	6.30	2.20
9	PK12	DABHADHANA	Jogi Marskde	22.18747	78.13683	421.1	3.75	11	0.3	6.00	4.10
10	PK13	DEHRI AMDHANA	Mangal Singh	22.19193	78.13984	423.4	3	6.2	GL	4.15	1.90
11	PK14	GOPALPUR	Ram Kishore Varma	22.21159	78.14998	437	2.3	9.7	0.7	5.80	3.20
12	PK15A	SHAKTIGARH	Sri Subhash Wiswas	22.19159	78.17031	433.3	1.5	6.75	0.45	4.40	2.10
13	PK16	GANDHIGRAM	GP	22.18627	78.17625	434.1	3.05	8	0.8	5.10	2.60
14	PK17	GHOGR	Nandulal Uike	22.09806	78.13805	446.1	3.4	8.55	0.9	2.75	1.95
15	PK19	BAGDONA	Johar Parte	22.12073	78.10677	431.3	4.9	7.6	GL	6.80	3.70
16	PK21	CHHATARPUR (mine-1)	Surtu Bharaskar	22.14977	78.09747	418.8	2.1	11.15	0.55	4.50	3.90
17	PK22	DHAMKADHANA	Badri Saream	22.15798	78.10395	414.1	5	10.7	1	8.50	3.00

S.No.	Name	Village	Owner	Lat (N)	Long (E)	RL (m)	Well Diameter (m)	Well Depth (m bmp)	Parapet (m agl)	DTWL_Pre-monsoon (May'23)_m bgl	DTWL_Post-monsoon (Nov'23)_m bgl
<b>Buffer Zone (up to 10 Km radius)</b>											
18	PK23	CHHATARPUR	Sukhnandan Durve	22.16325	78.09365	412.6	3.25	14.35	1.1	8.10	4.30
19	PK24	UMRI	Manglu Durve	22.16581	78.07662	409	4.25	10.4	GL	5.90	4.50
20	PK25	KERIYA	Jindu Parte	22.15669	78.06708	404	3.8	15.7	1	8.70	4.90
21	PK28	PHULBARIYA	Sakhanath Sikhdar	22.18033	78.09198	417.2	3.4	9.5	0.65	6.10	1.60
22	PK29	KATANGI	GP	22.17572	78.07158	407.7	2.15	9.1	0.4	5.40	2.60
23	PK38	VANGRAM	Forest Dept	22.11048	78.1854	448.7	4	8.2	0.85	5.90	2.60
24	K68	KHAIRWANI	Private	22.1225	78.25737	457	6	6.5	0.45	5.00	2.70
<b>Note: BH- borehole, m bmp- meter below measuring point, m agl- meter above ground level</b>											

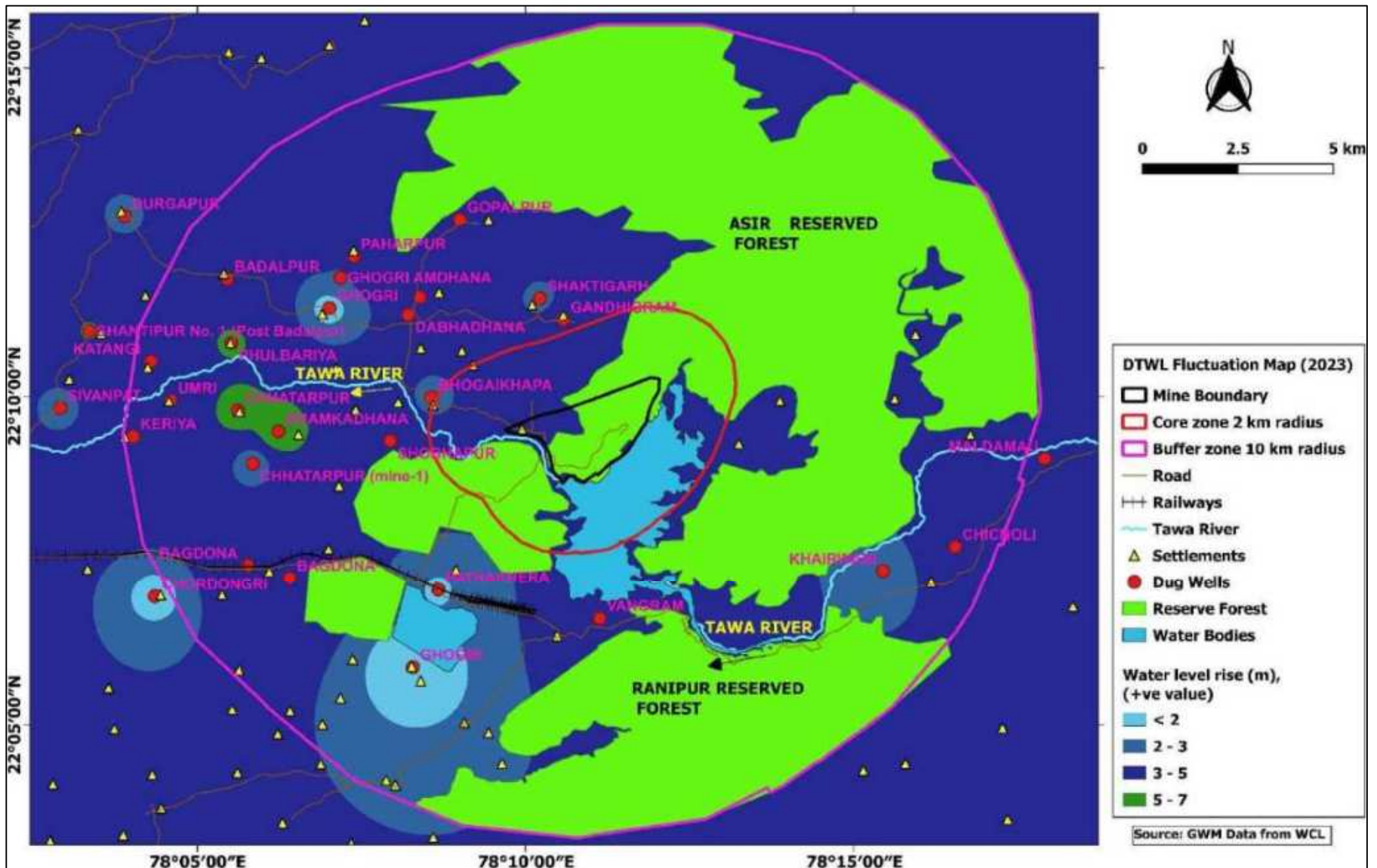


Figure 11: Water level fluctuation (2023) Map of the study area of Tawa-II UG Mine, Pathakhera Area, WCL.

## 2.3 Historic Groundwater Levels

The ground water level monitoring (mainly for phreatic aquifers) in 24 stations spread over the buffer zone of Tawa-II UG Mine had been done as per MoEF & CC guidelines (four times a year ie. Jan, May, Aug & Nov) from May 2006 to Jan 2019 by CMPDI, RI-IV, Nagpur and subsequently by WCL through Ecomen Laboratories Pvt. Ltd, Lucknow for Sept-Oct'20 to June-July'21 and through Anacon Laboratories Ltd, Nagpur since Nov-Dec'21 till present.

As representatives of the core and buffer zones, historical groundwater levels during the pre-monsoon and post-monsoon periods over the last 18 years (2006 to 2023) recorded at Bhogaikhapa and Ghogri villages are provide below in **Table 18**.

**Table 18: Historic groundwater levels of the study area in and around Tawa-II UG Mine, Pathakhera Area, WCL.**

[water level in meters below ground level (m b.g.l)]

Hydro graph Station / Year	Bhogaikhapa (PK-5)			Ghogri (PK-17)			Rainfall (m)
	Pre-monsoon	Post-Monsoon	Fluctuation	Pre-monsoon	Post-Monsoon	Fluctuation	
2006	15.55	9.60	5.95	7.40	4.95	2.45	1169
2007	14.80	13.45	1.35	7.05	5.25	1.80	1259
2008	14.85	14.00	0.85	6.45	5.15	1.30	710
2009	15.85	13.15	2.70	7.95	7.50	0.45	1148
2010	14.75	12.75	2.00	8.05	6.80	1.25	1101
2011	14.75	12.75	2.00	7.65	5.35	2.30	919
2012	15.55	11.30	4.25	8.40	3.25	5.15	1480
2013	14.85	11.65	3.20	7.75	3.95	3.80	1716
2014	14.00	13.55	0.45	7.40	2.70	4.70	1011
2015	15.35	13.75	1.60	8.00	7.50	0.50	1179
2016	15.25	13.20	2.05	7.00	5.50	1.50	1194
2017	15.25	10.90	4.35	7.20	6.50	0.70	827
2018	14.45	11.70	2.75	7.30	6.70	0.60	737
2019	15.00	12.00	3.00	7.50	5.00	2.50	1410
2020	14.50	7.15	7.35	7.70	7.00	0.70	1188
2021	15.60	12.50	3.10	8.52	4.80	3.72	1147
2022	14.20	5.80	8.40	5.80	1.50	4.30	1688
2023	7.50	5.20	2.30	2.75	1.95	0.80	1262
<b>Average</b>	<b>14.56</b>	<b>11.36</b>	<b>3.20</b>	<b>7.22</b>	<b>5.08</b>	<b>2.14</b>	<b>1174.71</b>

The historical groundwater levels monitored at Bhogaikhapa and Ghogri hydrograph station reveal that the pre-monsoon water levels vary from 7.50 m (Bhogaikhapa, 2023) to

15.85 m (Bhogaikhapa, 2009) with an average of 14.56 m. The post-monsoon water levels in the area vary from 5.20 m (Bhogaikhapa, 2023) to 14.00 m (Bhogaikhapa, 2008) with an average of 11.36 m. Thus, the average water level fluctuation in the area varies from 0.45 m (Bhogaikhapa, 2014) to 8.40 m (Bhogaikhapa, 2022) with an average of 3.20 m.

### 2.3.1 Water level trends

The pre-monsoon and post-monsoon water level trends for the above Hydrograph stations are given in **Figure 12, Figure 13 and Table 19, Table 20**. As per the GEC-2015 guidelines, the trend of depth to water table below ground level during the various seasons in command area in centimeters per year can be calculated as (Equation 4):

$$a = (N \cdot S_4 - S_1 \cdot S_2 / N \cdot S_3 - S_1^2) \times 100$$

.... Eq. 4

where

N = Number of pairs of data considered (Groundwater years)

S1 = Monitoring years (Xi)

S2 = Depth to water level below ground level in m during single season [Yi]

S3 = Xi<sup>2</sup>

S4 = Xi \* Yi

**Table 19: Water level trend during pre-monsoon and post-monsoon season at Bhogaikhapa station, Pathakhera Area, WCL**

Sl. No.	GW Year	Year (xi)	Depth to water table below GL in meters during		(xi) <sup>2</sup>	Pre-monsoon (xi * yi)	Post-monsoon (xi * yi)
			Pre-monsoon (yi)	Post-monsoon (yi)			
1	2006	1	15.55	9.60	1	15.55	9.6
2	2007	2	14.80	13.45	4	29.6	26.9
3	2008	3	14.85	14.00	9	44.55	42
4	2009	4	15.85	13.15	16	63.4	52.6
5	2010	5	14.75	12.75	25	73.75	63.75
6	2011	6	14.75	12.75	36	88.5	76.5
7	2012	7	15.55	11.30	49	108.85	79.1
8	2013	8	14.85	11.65	64	118.8	93.2
9	2014	9	14.00	13.55	81	126	121.95
10	2015	10	15.35	13.75	100	153.5	137.5
11	2016	11	15.25	13.20	121	167.75	145.2

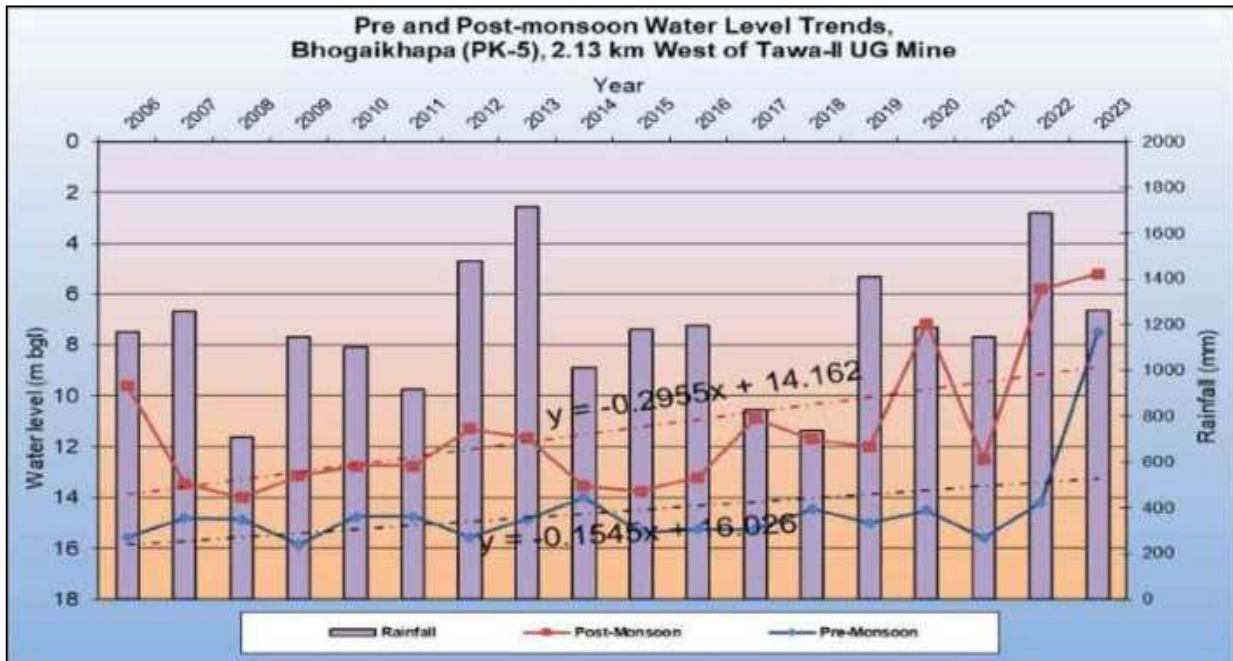
12	2017	12	15.25	10.90	144	183	130.8
13	2018	13	14.45	11.70	169	187.85	152.1
14	2019	14	15.00	12.00	196	210	168
15	2020	15	14.50	7.15	225	217.5	107.25
16	2021	16	15.60	12.50	256	249.6	200
17	2022	17	14.20	5.80	289	241.4	98.6
18	2023	18	7.50	5.20	324	135	93.6
	<b>N = 18</b>	<b>S1 = 171</b>	<b>S2 Pre = 262.05</b>	<b>S2 Post = 204.40</b>	<b>S3 = 2109</b>	<b>S4 Pre = 2414.60</b>	<b>S4 Post = 1798.65</b>

Thus,

Trend of water level during the pre-monsoon season (a) = - 15.45 cm/year

Trend of water level during the post-monsoon season (a) = - 29.54 cm/year

Therefore, the water level trend at Bhogaikhapa station during both pre-monsoon and post-monsoon seasons is rising. Furthermore, the combination of Column (Rainfall) and Line (water levels) plot prepared for Bhogaikhapa station is shown in **Figure 12** and which also depicts that the water level trend for pre-monsoon and post-monsoon seasons is a rising.



**Figure 12: Pre and Post-monsoon groundwater level trends at Bhogaikhapa station.**

Similarly, the trend of water table at the Ghogri station during pre-monsoon and post-monsoon season for the last 18 years is computed and provided in the below mentioned **Table 20**.

**Table 20: Water level trend during pre-monsoon and post-monsoon season at Ghogri station, Pathakhera Area, WCL**

Sl. No.	GW Year	Year (xi)	Depth to water table below GL in meters during		(xi) <sup>2</sup>	Pre-monsoon (xi * yi)	Post-monsoon (xi * yi)
			Pre-monsoon (yi)	Post-monsoon (yi)			
1	2006	1	7.4	4.95	1	7.4	4.95
2	2007	2	7.05	5.25	4	14.1	10.5
3	2008	3	6.45	5.15	9	19.35	15.45
4	2009	4	7.95	7.5	16	31.8	30
5	2010	5	8.05	6.8	25	40.25	34
6	2011	6	7.65	5.35	36	45.9	32.1
7	2012	7	8.4	3.25	49	58.8	22.75
8	2013	8	7.75	3.95	64	62	31.6
9	2014	9	7.4	2.7	81	66.6	24.3
10	2015	10	8	7.5	100	80	75
11	2016	11	7	5.5	121	77	60.5
12	2017	12	7.2	6.5	144	86.4	78
13	2018	13	7.3	6.7	169	94.9	87.1
14	2019	14	7.5	5	196	105	70
15	2020	15	7.7	7	225	115.5	105
16	2021	16	8.52	4.8	256	136.32	76.8
17	2022	17	5.8	1.5	289	98.6	25.5
18	2023	18	2.75	1.95	324	49.5	35.1
	<b>N = 18</b>	<b>S1 = 171</b>	<b>S2 Pre = 129.87</b>	<b>S2 Post = 91.35</b>	<b>S3 = 2109</b>	<b>S4 Pre = 1189.42</b>	<b>S4 Post = 818.65</b>

Thus,

Trend of water level during the pre-monsoon season (a) = - 9.15 cm/year

Trend of water level during the post-monsoon season (a) = - 10.14 cm/year

Therefore, the water level trend at Ghogri station during pre-monsoon season is neither rising nor falling and during post-monsoon season shows rising trend.

Furthermore, the combination of Column (Rainfall) and Line (water levels) plot prepared for Ghogri station is shown in **Figure 13** and which also depicts that the water level trend for pre-monsoon season is neither rising nor falling and during post-monsoon season shows rising trend.

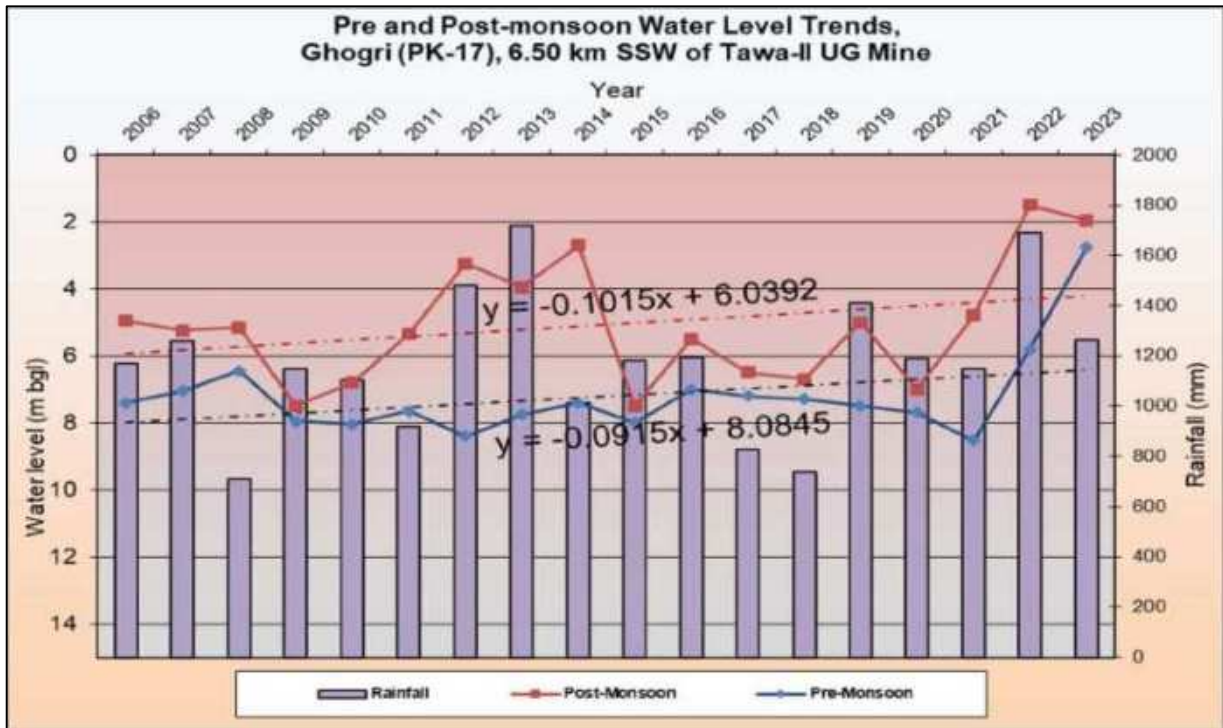
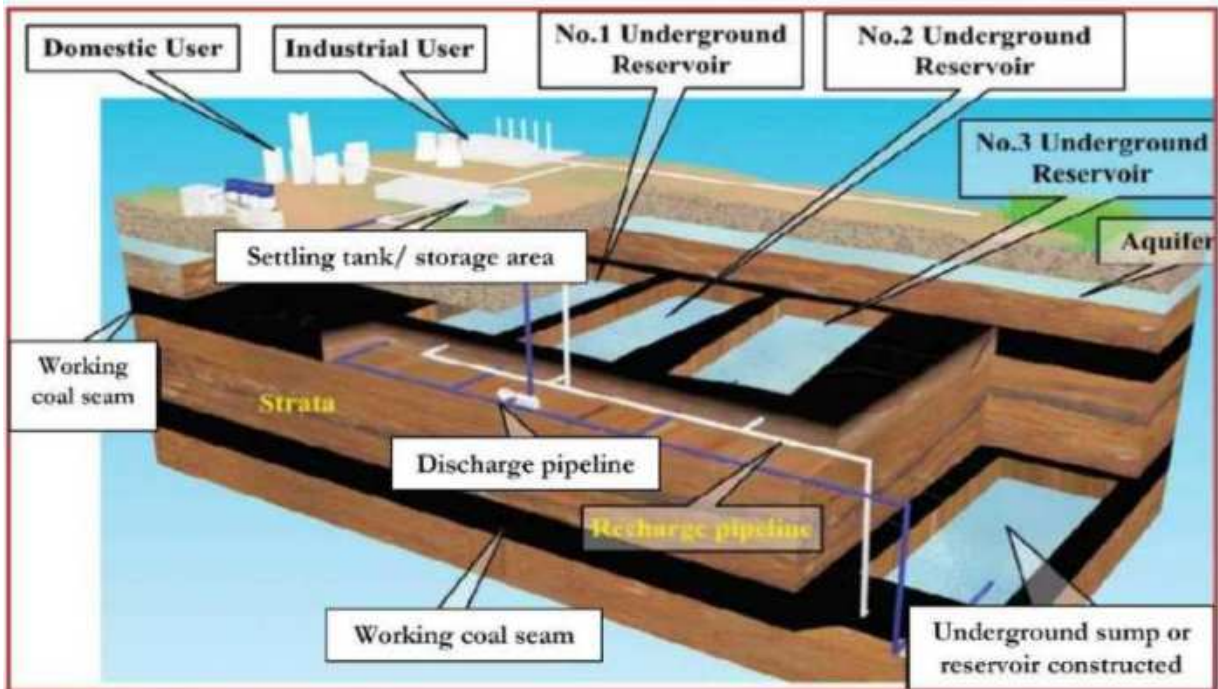


Figure 13: Pre and Post-monsoon water level trends at Ghogri Village.

## 2.4 Water harvesting and artificial recharge

The surplus mine water discharged into the local drainage system improves irrigation potential but also increases the Groundwater recharge (spreading method) in the area. Hundreds of acres of land are irrigated by mine water of the string of UG mines discharge and about 20% of the discharge enters the groundwater system as return flow.

The abandoned underground mine workings behave as huge ground water reservoirs and contain groundwater runoff (i.e. planned recharge). The sumps developed also act as recharge pits and enhance recharge. Huge quantity of water stored in abandoned underground galleries also serves as reservoir and augment the groundwater recharge (**Figure 14**). Thereby, in post-mining condition, the recharge and source potential in core zone will be much higher than the in-situ.



**Figure 14: Abandoned underground galleries also serves as reservoir and augment the groundwater recharge.**

For this Project the augmentation of ground water recharge is being done through the Rooftop Rain Water Harvesting Structures located in and around the Project area, the details of estimated ground water recharge through these artificial recharge structures is given in the following sub-sections.

### **2.1.1 Computation of groundwater recharge by existing RTRWHS in the study area**

The Artificial Rain Water Harvesting Structures or Roof Top Rainwater Harvesting Structures (RTRWHS) have been constructed at different locations of the study area (**Figure 15, Figure 16, Figure 17 and Figure 18**). The groundwater recharge from these structures have been assessed with the aid of following formulae (**Equation 5**) and norms as prescribed in the Manual on Artificial Recharge of Ground Water, CGWB, 2007.

$\text{Water available (in litres)} = \text{Annual rainfall (in mm)} \times \text{Roof area (in sq.m)} \times \text{Runoff Coefficient}$ <p style="text-align: right;"><b>...Eq 5</b></p>
---

#### **Water available from roof is obtained from the following relation:**

Area of a roof shall be measured as the area projected on a horizontal surface. For practical purpose, it is measured on the ground surface and the area calculated as the

product of length and breadth. The coefficient of runoff varies depending on the type of roof and indicates the fraction of rainwater that can be collected from roof. Run-off coefficients for common types of roofs are shown in **Table 21**.

**Table 21: Runoff Coefficients of common types of roofs**

Sl. No	Types of roof	Runoff Coefficient
1	Roof Top of building/ Shed	0.85
2	Road/ Paved area	0.65
3	Open Land	0.20
4	Green Belt	0.15

Therefore, from the aforementioned table, Runoff Coefficient of 0.85 has been considered for the computation of availability of water from the roofs and consequently amplifying the groundwater recharge of the area. The details of the computation are furnished in following **Table 22**.

**Table 22: Computation of groundwater recharge by existing RTRWHS for Tawa-II UG project area.**

S. No.	Place/ Location	Roof Top Area (m <sup>2</sup> )	Average Rainfall (2019-23) (m)	Runoff Coefficient	Recharge, Q (m <sup>3</sup> /year)
1	Regional workshop, Pathakhera Area, WCL Latitude: 22°07' 29.78" N Longitude: 78° 6' 28.41" E	4130	1.3388	0.85	4699.85
2	Office Building, Tawa UG Mine Pathakhera, WCL	4272	1.3388	0.85	4861.45
<b>Sub-total A Cumulative Recharge (m<sup>3</sup>/ year)</b>					9561.30

It is apparent from the above assessment that all these RTRWHS are augmenting the groundwater recharge to the tune of 9651.30 m<sup>3</sup>/year in the study area.

### 2.1.2 Computation of groundwater recharge by proposed RTRWHS in the study area

There is proposal for installation of Roof Top rainwater harvesting structure in the office buildings located in the mine premises in the FY 2024-25. The details of the computation are furnished in following **Table 23**.

**Table 23: Computation of groundwater recharge by proposed RTRWHS in the Tawa-II UG project area**

S. No.	Place/ Location	Roof Top Area (m <sup>2</sup> )	Average Rainfall (2017-22) (m)	Runoff Coefficient	Recharge, Q (m <sup>3</sup> /year)
1	Tawa II UG Mine	1470	1.3388	0.85	1672.83
<b>Sub-total B</b> Cumulative Recharge (m <sup>3</sup> / year)					1672.83
<b>Total Cumulative Recharge (m<sup>3</sup>/ year) (A+B)</b>					<b>11234</b>

Therefore, the overall existing and proposed RTRWHS are augmenting the groundwater recharge to the tune of **11234 m<sup>3</sup>/year** in the study area.

The figures for existing rainwater harvesting structures are given below.

**Photographs of Rain Water Harvesting Structure**



***Figure 15: Existing rain water harvesting at Regional Workshop, Pathakhera Area, WCL***



***Figure 16: Recharge Pit***



**Figure 17: Existing rain water harvesting at Office Building, Tawa UG Mine, Pathakhera Area, WCL.**



**Figure 18: Recharge Pit.**

**Points raised by Public and commitments made by the proponent and the action proposed with budget and timeframe**

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line
1.	Mr. Vasulanand (R/o: Shaktigarh) said that, There was no toilet constructed in his village.	<p><b><u>It is to be noted that, WCL Pathakhera Area has constructed 416 toilets in Betul District since 2014-15 with total expenditure of Rs. 719.22 Lakhs. Out of which, 414 toilets were constructed in FY 2014-15 &amp; FY 2015-16 and 02 toilets has been constructed in FY 2020-21.</u></b></p> <p>The requirement of the villager is noted. In this regard, it is submitted that, there was no such earlier commitment from WCL for construction of toilet in the village.</p> <p>Till date no Gram Sabha resolution regarding construction of toilets has been received from Shaktigarh Gram Panchayat.</p> <p>On receipt of the formal proposal from Gram Sabha regarding construction of toilet in the village may please be submitted to the Project Authority latest by February 2025 for consideration under CSR work of WCL, Pathakhera Area in the coming FY 2025-26.</p> <p>On receipt of the proposal, following the due procedure of Company CSR, and the norms of CSR Policy of the Company, necessary steps will be taken for incorporation of the same in CSR Action Plan 2025-26 for implementation of the same.</p>	Budget provision of Rs. 1.00 Lakhs proposed by Pathakhera Area in Proposed CSR Action Plan 2025-26 for this work.	Work will be completed by March, 2026.
2.	Mr. Prahlad Yadav (R/o: Pathakhera) asked that, what kind of effect will be there on water environment due to mining activity?	<p>➤ In this regard, it may be mentioned here that, Tawa - II UG mine is an operating underground mine in the area. The entire coal winning operations are being carried out below ground and on surface there is only one activity i.e. transportation of coal from pit - head to the Sarni TPS. There is no such adverse impact noticed so far in the area on ambient air quality, water quality or surface land because of the mining activities.</p> <p>➤ To assess the existing scenario, baseline environmental quality w.r.t. ambient air, ground and Surface water quality, soil quality, ambient noise quality, flora &amp; fauna etc. has been generated / collected and it is incorporated in the Public Hearing Document shared with all. It may be seen</p>	<p>➤ The baseline data generation and other studies etc. have been completed already.</p> <p>➤ The monitoring of regular environmental</p>	The work will be carried in a routine manner.

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line
		<p>that all parameters are well within the permissible limits.</p> <ul style="list-style-type: none"> <li>➤ The above proposal is only for enhancement in production capacity from the mine with technologically advance coal mining equipment through deployment of Continuous Miner, which eliminates drilling and blasting. There is no change in Working depth, coal seam or geological structure. Hence, there will be insignificant impact on physical environment.</li> <li>➤ Further, based on the aforesaid baseline scenario, Impact Assessment Studies have also been carried out considering the proposed enhancement in capacity. The details have also been incorporated in the Public Hearing/ Draft EIA/EMP document shared with all. It may be seen that, the proposed results are also within permissible limit.</li> <li>➤ Considering all the above, the Environmental Management Plan has also been integrated with the EIA and all provisions have been made to carry out the mining activities during the proposed enhancement in capacity in a manner so that, there is insignificant impact on physical environmental attributes.</li> <li>➤ It may be mentioned here that, this is an underground mine only and the mining activity area will be remaining the same.</li> <li>➤ As per the existing system, Strata seepage water, which contains only suspended coal particles initially collected in the Underground mine sump provided at the dip most point having huge capacity. After getting adequate retention time in UG sump, the strata seepage water is pumped out and treated through Surface Settling Tank where in the remaining suspended particles get settled. Hence, there will be negligible impact on Water quality.</li> <li>➤ So far as ground water is concerned, as on date, as seen from the ground water monitoring data there is no impact on GW table. As already stated, the depth of working etc. Is not proposed to be increased, so there will insignificant impact on ground water table due to the proposed expansion.</li> </ul>	<p>parameters as per the existing EC is being carried out departmentally through CMPDIL (a subsidiary of CIL/Sister Company) and the same will be continued. Total Expenditure of Rs. 103.96 Lakhs has been incurred between FY 2007-08 to FY 2023-24 for monitoring of regular environmental parameters.</p> <ul style="list-style-type: none"> <li>➤ The Water Pollution mitigation measures as stated in the previous column has been carried out with the expenditure of Rs. 1.59 Crores since 2023-24.</li> <li>➤ Total Expenditure of Rs. 6.94 Lakhs has been incurred FY 2015-16 to FY 2023-24 for</li> </ul>	

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line
			monitoring of Ground water level & Ground water Quality.	
3.	Mr. Pramod Kumar (R/o: Bagdona) Asked that, What steps will be taken for medical facilities of Mine workers?	<ul style="list-style-type: none"> <li>➤ All the employees of the mine along with their direct dependents are totally covered under the medical facility of the WCL.</li> <li>➤ The round the clock ambulance facility is available in Mine. In addition to that, 60 bedded hospital with 10 doctors and 45 paramedical staff is in operation exclusively to cater the Medical Services to WCL Employees.</li> <li>➤ The Area hospitals and dispensaries are managed by the qualified doctors having MBBS, specialization and super specializations in occupational health and other areas of medicine.</li> <li>➤ The details of the setup at Pathakhera Area Hospital are as follows: <ul style="list-style-type: none"> <li>➤ 1) State of the art facilities are provided in the hospital.</li> <li>➤ 2) 11 nos. of doctors and 46 paramedical staff engaged in theHospital.</li> <li>➤ <u>3) Separate Deptt. is established for IME/PME related works and 3 nos. of doctors are posted along with supporting staff.</u></li> <li>➤ 4) 1 no. of X-Ray machine (500mA)of Allengers brand.</li> <li>➤ 5) 2 nos. of Biochemistry Auto analyser of Transasia brand.</li> <li>➤ 6) 1 no. of C-Arm Image intensifiermachine of Siemens brand.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>➤ The work is being carried out departmentally and will continue to be carried out.</li> </ul>	<ul style="list-style-type: none"> <li>➤ The work is being carried in a routine manner.</li> </ul>

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line
		<ul style="list-style-type: none"> <li>➤ 7) 1 nos. of Anaesthesia machine of Boyle brand.</li> <li>➤ 8) 1 nos. of Blood bank refrigerators of Remi brand.</li> <li>➤ 9) 1 nos. of web enabled Audiometer units of Pure Tone brand</li> <li>➤ 10) 1 nos. of web enabled Spirometer</li> <li>➤ Periodic Medical Examination (PME) of all employees below 55 years are being conducted once in every 5 years and Fitness of all employees above 55 years are being examined once in 03 years. In past 06 Years (2018-2023) PME of total 1532 No. of employees has been conducted by the Medical Services Department.</li> <li>➤ In mine, All the employees with illness like BP, Heart Problem, etc have been identified and Work allocation has been carried out according to their fitness level.</li> <li>➤ PPEs are being provided to all the employees during working hours.</li> </ul>		
4.	Mr. Raju Deheria (R/o: Shobhapur asked that, what kind of effect will be there on air environment due to mining activities?	<ul style="list-style-type: none"> <li>➤ In this regard, it may be mentioned here that, Tawa - II UG mine is an operating underground mine in the area. The entire coal winning operations are being carried out below ground and on surface there is only one activity i.e. transportation of coal from pit - head to the Sarni TPS. There is no such adverse impact noticed so far in the area on ambient air quality, water quality or surface land because of the mining activities.</li> <li>➤ The above proposal is only for enhancement in production capacity from the mine with technologically advance coal mining equipment through deployment of Continuous Miner which eliminates drilling and blasting. There is no change in Working depth, coal seam or geological structure. Hence, there will be insignificant impact on physical environment.</li> <li>➤ To assess the existing scenario, baseline environmental quality w.r.t. ambient air has been generated / collected and it is incorporated in the</li> </ul>	<p>The work is being carried out in routine manner and will continue to be carried out.</p> <p>Provision of. Rs.6.61 Lakhs has been made in for Fog Canon for air pollution control measures in Environment Capital Budget 2024-25.</p>	The work is being carried in a routine manner.

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line
		<p>Public Hearing Document shared with all. It may be seen that all parameters are well within the permissible limits.</p> <ul style="list-style-type: none"> <li>➤ Further, based on the aforesaid baseline scenario, Impact Assessment Studies with numerical modelling in respect of ambient air has also been carried out considering the proposed enhancement in capacity. The details have also been incorporated in the Public Hearing/ Draft EIA/EMP document shared with all. It may be seen that the proposed results are also within permissible limit.</li> <li>➤ Considering all the above, the Environmental Management Plan has also been integrated with the EIA and all provisions have been made to carry out the mining activities during the proposed enhancement in capacity in a manner so that there is insignificant impact on ambient air quality.</li> <li>➤ In addition to that, Following air pollution control measures have been taken by Project Proponent : <ol style="list-style-type: none"> <li>1. Asphaltting of Roads with an Expenditure of Rs 2.6351 Crore since FY 2012-13</li> <li>2. Arrangements of Mist Spray and Fixed sprinklers on Conveyor belts and Coal stock yard with an Expenditure of Rs 9.17 Lakhs since FY 2019-20</li> <li>3. Regular monitoring of Ambient Air Quality in Mine. Total Expenditure of Rs. 103.96 Lakhs has been incurred between FY 2007-08 to FY 2023-24 for monitoring of regular environmental parameters.</li> </ol> </li> </ul>		
5.	Mr. Namdev Ghodki (R/o: Shobhapur) asked that, What steps will be taken by PP for protection of nearby vegetation cover?	<ul style="list-style-type: none"> <li>➤ The mine under consideration is an operating mine.</li> <li>➤ This proposal is only for enhancement in production capacity with technologically advance coal mining equipment within the same mining area. These equipment will completely eliminate drilling and blasting operations. So far the Mining Area is concerned there is no change. The Method of work will continue to be same. As on date, there is no impact on vegetation cover due to operation of Tawa – II UG Mine &amp; in future also</li> </ul>	The work is being carried out in departmental manner and will continue to be carried out.	The work is being carried in a routine manner.

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line								
		<p>there will not be any adverse impact as no tree cutting or additional surface development will be there for the proposed expansion.</p> <ul style="list-style-type: none"> <li>➤ Tawa – II Expn. is an underground mine. All the mining activities i.e. Loading, unloading, transportation of coal from coal face to surface has been carried out in the closed condition below surface w.r.t. an open cast mine where all the activities are being carried out in exposed circumstances.</li> <li>➤ In addition to that, Total 2,37,150 No. of Trees have been planted and maintained over 94.799 Ha. area between 1995-96 to 2023-24.</li> <li>➤ Total 17,561 plants have been distributed between 1995-96 to 2023-24.</li> <li>➤ Tawa – II Expansion UG mine is located in the dense forest and no vacant land is available for further plantation.</li> <li>➤ Satellite Mapping of Vegetation cover has been carried out once in every 3 years by WCL and no adverse impact on vegetation has been observed. Hence, in future the impact of Mining activities on Vegetation cover will be negligible.</li> </ul>										
6.	<p>Mr. Kismat rao (R/o: Shobhapur) said that, CSR works have been carried out by WCL &amp; MPEB. Further How the local will get the same benefits in future?</p>	<p>➤ It is submitted that, the CSR &amp; facilities created by WCL for the neighboring communities will continue to be operated and maintained. Further additional facilities will be created in coming years also.</p> <p>List of CSR Activities undertaken by Pathakhera Area since 2010-11 are as follow</p> <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Name of Activities</th> <th>Year</th> <th>Expenditure (in Lacs)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Constn. of 6x4 m room for Tribal Middle School at Chhatarpur village.</td> <td>2010-11</td> <td>1.99</td> </tr> </tbody> </table>	Sr. No	Name of Activities	Year	Expenditure (in Lacs)	1.	Constn. of 6x4 m room for Tribal Middle School at Chhatarpur village.	2010-11	1.99	<p>CSR Action Plan 2024-25</p> <p>The Activity wise budget provisions as stated in previous column.</p>	<p>Works will be completed by March, 2025.</p>
Sr. No	Name of Activities	Year	Expenditure (in Lacs)									
1.	Constn. of 6x4 m room for Tribal Middle School at Chhatarpur village.	2010-11	1.99									

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
		2.	Constn. of 6x4 m x 2 Nos. rooms for Adivasi Secondary School at Shobhapur village.	2010-11	4.36		
		3.	Constn. of 6x4 m room for Primary School at Baralilybhata village under Grampanchayat Lonia.	2010-11	2.91		
		4.	Constn. of 6x4 m x2 Nos. room for Jr. Secondary School at Bhogaikhapa village.	2010-11	5.15		
		5.	Constn.of earthern dam in Chhatarpur village.	2010-11	2.82		
		6.	Constn. of community hall, toilet & kitchen room in Ragegaon khapa under Grampanchayat Lonia.	2010-11	5.72		
		7.	Constn. of community hall at Salaiya village.	2010-11	3.04		
		8.	Constn. of community hall at Dumkadhana village.	2010-11	2.90		
		9.	Repairing & black topping 1.5 KM 3 M wide WBM Road from Chhatarpur-I Mine to village middle school.	2010-11	18.81		
		10.	2 Nos. Hand pumps at Shaktigrah. 2 Nos. Hand pumps at Shobhapur Grampanchayat	2010-11	3.51		

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
		11.	3 Nos. hand pumps at Ragegaon Khapa, 4 Nos. hand pumps at Bhogaikhapa village.	2010-11	6.51		
		12.	Constn. of boundary wall for Tribal School at Bhogaikhapa.	2011-12	4.37		
		13.	Constn. of 6x4M room for Tribal Middle School at Chhatarpur village.	2011-12	0.03		
		14.	Constn. of 6x4M x 2 Nos. rooms for Adivasi Secondary School at Shobhapur village.	2011-12	0.02		
		15.	Constn. of 6x4M room for Primary School at Baralilybhata village under Grampanchayat Lonia.	2011-12	0.07		
		16.	Constn. of addl. class room at Shobhapur village of Shobhoapur Grampanchayat.	2011-12	2.55		
		17.	Constn. of addl. class room at Khapa village of Lonia Panchayat.	2011-12	2.20		

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
		18.	Construction of Boundary Wall around School Building At Chhatarpur Village (Zilla Parishad) Length 115 M & Height 1.50 M )	2011-12	2.82		
		19.	Construction of additional 2 Nos. Class Room of Size 6 x 4 M width Verandah for primary /secondary School of Village Bhogaikhapa at Gram Panchayat.	2011-12	3.54		
		20.	Construaction of 2 Nos. Class Room at Sukhadana Village under SukhadanaPanchayat at PKD Area.	2011-12	3.88		
		21.	Mobile van camps	2011-12	1.75		
		22.	Medical camps	2011-12	3.04		
		23.	Constn.of earthern dam in Chhatarpur village.	2011-12	0.37		
		24.	Constn. of stop dam at Bhogaikhapa village.	2011-12	5.45		
		25.	Constn. of community hall, toilet & kitchen room in Ragegaon khapa under Grampanchayat Lonia.	2011-12	0.57		
		26.	Constn. of community hall at Ragegaonkhapa village of Lonia Grampanchayat.of Lonia Grampanchayat.	2011-12	3.72		

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
		27.	Constn. of community hall at Salaiya village.	2011-12	0.34		
		28.	Constn. of community hall at Dumkadhana village.	2011-12	0.53		
		29.	Black topping of road from Bichuwa village to Gowaridhana of Shobhapur Grampanchayat (L:1100M)	2011-12	13.01		
		30.	Black topping of approach road from existing road to Dumkadhana village of Chhatarpur Grampanchayat (length: 425 M)	2011-12	5.29		
		31.	Constn. of RCC Hume pipe culvert at Dheri Amdhana Panchayat on Jamun Nallah.	2011-12	8.39		
		32.	2 Nos. coaching camps in different Villages. (Kabaddi, Kho-Kho, Volleyball.)	2011-12	0.5		
		33.	Installation of Solar Light.	2011-12	0.97		
		34.	Drilling of 1 No. 200/150 MM dia. Borewall and Making Drinking Water arrangement at Chhatarpur Village.	2011-12	2.50		
		35.	2 Nos. Hand pumps at Shaktigrah. 2 Nos. Hand pumps at Shobhapur Grampanchayat	2011-12	0.24		
		36.	3 Nos. hand pumps at Ragegaon Khapa, 4 Nos. hand pumps at Bhogaikhapa village.	2011-12	0.74		

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
		37.	Installation of 3 Nos. Hands Pumps (depth 150 M each ) at Dagdaga,Paharpur,& Shaktigrah of PKD Area.	2011-12	3.02		
		38.	Installation of 3 Nos.Hands Pumps (depth 150 M each ) at Birlai,Bareliybhata & Loniya under Loniya Gram Panchayat of PKD Area.	2011-12	2.87		
		39.	Installation of 3 Nos. Hands Pumps at Shobhapur, Bichuwa & Bamankhera Under Gram Panchayat Shopur of PKD Area.	2011-12	2.68		
		40.	Construction of Boundary Wall at EGS School at Village Salliya under Gram Panchayat Salliya.	2012-13	3.42		
		41.	Construction of Boundary Wall around School Building At Chhatarpur Village ( Zilla Parishad ) Length 115 M & Height 1.50 M )	2012-13	0.11		
		42.	Construction of additional 2 Nos. Class Room of Size 6 x 4 M width Verandah for primary /secondary School of Village Bhogaikhapa at Gram Panchayat.	2012-13	1.89		
		43.	Construction of 2 Nos. Class Room at Sukhadana Village under Sukhadana Panchayat at PKD Area.	2012-13	0.67		
		44.	2 Nos. Class Room at Brahmankhara under shobhapur panchayat	2012-13	5.86		

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
		45.	2 Nos. Class Room at Bisaldehi of Sukhadhana Panchayat	2012-13	5.65		
		46.	School Magazines	2012-13	0.25		
		47.	Medicals Camps in different Villages	2012-13	3.4		
		48.	Construction of RCC shed at Mokshadham of Mangaonakala village of Multai Tehsil.	2012-13	1.83		
		49.	Construction of boundary wall surrounding Community Hall at Mangonakhurd of Prabhat Pattan of Multai.	2012-13	6.92		
		50.	Construction of Community Hall of Size 10 x 5 M for 3 Villages at Gram Panchayat Bhogai Khapa	2012-13	3.93		
		51.	Construction of Community Hall (10 x 5 M) at Bisaldehi village of Sukhdhana Panchayat	2012-13	4.51		
		52.	Construction of Community Hall (10 x 5) at Sitakamath Village of Sitakamath Panchayat	2012-13	4.49		
		53.	Construction of Community Hall at Ghogari Village of Vikrampur Panchayat	2012-13	4.58		
		54.	Barbed wire fencing alongwith grill gate for graveyard at Amravati ghat of Prabhat Pattan at Multai Tehsil	2012-13	0.85		

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
		55.	Construction of PCC roads at 10 different Gram Panchayats of Multai namely Mangaonakala, Ridhaura, Thanasiakheda, Jamgaon, Landaghondhi, Chilhati, Jhirikhappa Bethiya, Pipariya, Kundai Bethiya and Sipawa(1600 Mtrs)	2012-13	49.03		
		56.	Construction of WBM Road from Village Heerapalla to Tawa Mine ( length 1.00 KM and width 3.00 M )	2012-13	18.82		
		57.	Construction of approach road with 2 No. Culvert from main road to school at Bhogaikhapa 150 M x7 wide 3 M	2012-13	4.69		
		58.	Construction of WBM Road from B.T. Road ( Near Bitchowa Village to Guwaridhana Village. length 1.50 KM and Wide 3.00 Km/	2012-13	14.61		
		59.	Construction of 1 Km length and 3 M wide WBM road from Gopalpur to Paharpur under Gram Panchayat of Shaktigrah	2012-13	8.54		
		60.	Construction of Basketball ground at Govt. Middle School, Multai	2012-13	3.26		
		61.	Drilling of 1 No. 200/150 MM dia. Borewall and Making Drinking Water arrangementat Chhatarpur Village.	2012-13	2.40		
		62.	Boring & Installation of 150 MM dia. & 150 M depth deep Borehole with Submersible Pumps including	2012-13	2.60		

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
			electrical accessories at Shaktigrah Village.				
		63.	Boring & Installation of 150 MM dia. & 150 M depth deep Borehole with Submersible Pumps including electrical accessories at Heerapalla.Village.	2012-13	2.45		
		64.	3 Nos. hands Pumps at Sukhadana Village under Sukhadana Gram Panchayat.	2012-13	3.22		
		65.	3 Nos. hands Pumps at Dhased Grampanchayat.	2012-13	3.26		
		66.	Providing and laying 80 mm dia GI pipeline (Raising Main) alongwith submersible pump from borewell to RCC overhead tank at village Masod of Multai.	2012-13	20.00		
		67.	Laying of water supply pipeline with pump and switch room at Jamgaon Gram Panchayat of Multai Tehsil.	2012-13	4.06		
		68.	Construction of Boundary Wall for Shobhapur Primary School at Shobhapur Panchayat (show in 13 13)	2013-14	1.11		
		69.	Construction of 2 classrooms for primary school at chordingari village under Sukhadhana Panchayat.	2013-14	3.2		

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
		70.	Construction of toilet for Boys/Girls for primary school at Bramhanwara village under Shobhapur panchayat.	2013-14	2.25		
		71.	Construction of toilet for Boys/Girls for school at Bisaldehi village under sukhadhana Panchayat.	2013-14	1.84		
		72.	Construction of 1 No Class room, of Size 6 x 4 M in frot of Middle School at Ragegoankhapa under Gram panchayat Lonia	2013-14	3.21		
		73.	Medical camps at different villages.	2013-14	0.74		
		74.	Construction of boundary wall surrounding Community Hall at Mangonakhurd of Prabhat Pattan of Multai.	2013-14	0.72		
		75.	Construction of 2 RCC chopals at Markadhana and jajwadi village under koalgaon Panchayat.	2013-14	2.66		
		76.	Construction of Community Hall (10 x 5 M) at Phulwariya Village of Badalpur Panchayat	2013-14	4.78		
		77.	Construction of community hall at Brahmanwara village under Shobhapur Panchayat.	2013-14	4.06		
		78.	Construction of community hall at pandhara village.	2013-14	3.57		
		79.	Cement Concrete Road at Jajalpur (300 M. Length) under Gram	2013-14	7.28		

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
			Panchayat Kalgaon.				
		80.	Cement Concrete Road at Markadhana (300 Mtr.Length under Gram Panchayat Kalgaon.	2013-14	7.67		
		81.	400 Mtr. Length Cement Concrete Road from Bhichdhana to Jheeldhana of Dehri Amadhana Panchayat	2013-14	8.84		
		82.	Construction of 400 m cement concrete road at sitakamath village under Sitakamath Panchayat.	2013-14	8.72		
		83.	Construction of 300 m cement concrete road at Mathani village under Sitakamath Panchayat.	2013-14	6.74		
		84.	Construction of WBM & BT Road from main road to Chordongri square under Sukhadhana Panchayat ( 900 Mtrs.)	2013-14	20.74		
		85.	WBM Road 1.00 KM length at Khairwani Village of Khairwani Panchayat	2013-14	5.31		
		86.	Construction of 2 Km WBM road from Dhumkadhana to Bagdona approach road.	2013-14	23.72		
		87.	Blacktopping of 900 m road from Guwaridhana to Bichuwa under Shobhapur Panchayat.	2013-14	7.75		
		88.	Construction of 1.2 Km WBM and BT road from Brahmanwara to Dumkadhana under Shobhapur Panchayat.	2013-14	14.13		

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
		89.	Construction of WBM Road from B.T. Road ( Near Bichowa Village to Guwaridhana Village. ( Phase -II) length 1.50 KM and Wide 3.00 Km/	2013-14	2.12		
		90.	Construction of 1 Km length and 3 M wide WBM road from Gopalpur to Paharpur under Gram Panchayat of Shaktigrah (Phase- 1 )	2013-14	5.76		
		91.	6 Nos. Hand Pumps at Vikrampur & Ghogari Villages of Gram Panchayat Vikrampur	2013-14	4.72		
		92.	2 Nos. Hand Pump at Sitakamath Vllage Ward No. 1 & 4 under Sitakamath Panchayat	2013-14	1.56		
		93.	3 Nos. Hand Pumps at Loniya Panchayat	2013-14	2.08		
		94.	3 Nos. Hand Pumps at Khairwani Village of Khairwani Panchayat	2013-14	2.57		
		95.	5 Nos. Hand Pumps at Barkur Village of Barkur Panchayat	2013-14	3.53		
		96.	Boring and installation of 6 hand-pumps at different villages of Shaktigarh Panchayat.	2013-14	4.29		
		97.	Installation of 3 hand-pumps at jajwadi Markadhana, Jajalpur village of Kolgaon Panchayat.	2013-14	2.23		
		98.	Installation of 1 hand-pump at Dhased gram Panchayat near Mahesh house.	2013-14	1		

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
		99.	Laying of water supply pipeline with pump and switch room at Jamgaon Gram Panchayat of Multai Tehsil.	2013-14	0.82		
		100.	Providing HDPE tanks and platforms at different locations with providing HDPE pipeline at Bhogaikhapa village under Bhogaikhapa Panchayat.	2013-14	1.41		
		101.	Construction of RCC overhead tank of 1 lakh litres capacity with 12 m. staging alongwith (a) laying 80 mm dia.HDPE flexible pipe of 1000 m length from existing borewell to proposed OHT and (b) providing and fixing submerssible pump of 7.5 HP with cable an	2013-14	9.88		
		102.	Construction of RCC overhead tank with pipeline connection and distribution network at Sendurjana Gram Panchayat of Multai Tahsil.	2013-14	12.06		
		103.	Construction of RCC overhead tank of 1 lakh litres capacity with 12 m. statging alongwith (a) having 80 mm dia HDPE flexible pipe of 220 m length as raising main and distribution main from existing borewell to proposed OHT, (b) providing and laying of 50	2013-14	13.16		
		104.	Drilling of 1 No. 200/150 MM dia. Borewall and Making Drinking Water arrangementat Chhatarpur Village.	2013-14	0.82		

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
		105.	6 Nos. Hand Pumps at Vikrampur & Ghogari Villages of Gram Panchayat Vikrampur	2013-14	4.72		
		106.	2 Nos. Hand Pump at Sitakamath Vllage Ward No. 1 & 4 under Sitakamath Panchayat	2013-14	1.56		
		107.	3 Nos. Hand Pumps at Loniya Panchayat	2013-14	2.08		
		108.	3 Nos. Hand Pumps at Khairwani Village of Khairwani Panchayat	2013-14	2.57		
		109.	5 Nos. Hand Pumps at Barkur Village of Barkur Panchayat	2013-14	3.53		
		110.	Boring and installation of 6 hand-pumps at different villages of Shaktigarh Panchayat.	2013-14	4.29		
		111.	Installation of 3 hand-pumps at jajwadi Markadhana, Jajalpur village of Kolgaon Panchayat.	2013-14	2.23		
		112.	Installation of 1 hand-pump at Dhased gram Panchayat near Mahesh house.	2013-14	1		
		113.	Laying of water supply pipeline with pump and switch room at Jamgaon Gram Panchayat of Multai Tehsil.	2013-14	0.82		
		114.	Construction of Boundary Wall for Shobhapur Primary School at Shobhapur Panchayat (	2014-15	1.39		

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
		115.	Construction of 2 classrooms for primary school at chordingari village under Sukhadhana Panchayat.	2014-15	1.89		
		116.	Construction of toilet for Boys/Girls for primary school at Bramhanwara village under Shobhapur panchayat.	2014-15	0.22		
		117.	Construction of toilet for Boys/Girls for school at Bisaldehi village under sukhadhana Panchayat.	2014-15	0.6		
		118.	Medical Camps at different villages	2014-15	0.91		
		119.	Construction of cement concrete road from Mata Mandir to primary school at Chhuri village.	2014-15	4.93		
		120.	Construction of cement concrete road at Ninaidhana of Rajegaon.	2014-15	9.02		
		121.	Construction of cement concrete road at Gopalpur II of Shaktigarh Panchayat.	2014-15	11.72		
		122.	Construction of cement concrete road at Paharpur of Shaktigarh Panchayat.	2014-15	8.80		
		123.	Construction of cement concrete road at Gopalpur I of Shaktigarh Panchayat.	2014-15	5.86		
		124.	Construction of Cement Concrete Road from primary school to residence of Balaun at Mathani Village of Sitakhamat Panchayat.	2014-15	5.19		
		125.	Construction of Cement Concrete Road from residence of P.Yadao to	2014-15	4.93		

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
			forest approach at Keriya Village of Sitakamat Panchayat.				
		126.	Construction of Cement Concrete Road from Middle school( Indira Colony) to residence of tillu Salam at Sitakamat Panchayat	2014-15	5.91		
		127.	Construction of WBM Road From Chhatarpur towards Dumkadhana of Chhatarpur Gram Panchayat	2014-15	10.92		
		128.	Construction of 2 RCC chopals at Badalpur and Phulvaria village under Badalpur Panchayat.	2014-15	8.00		
		129.	Construction of 2 RCC chopals at Markadhana and jajwadi village under koalgaon Panchayat.	2014-15	4.38		
		130.	Construction of community hall at Chhuri village under Chhuri Panchayat.	2014-15	4.17		
		131.	WBM Road 1.00 KM length at Khairwani Village of Khairwani Panchayat	2014-15	2.18		
		132.	Construction of 1.2 Km WBM and BT road from Brahmanwara to Dumkadhana under Shobhapur Panchayat.	2014-15	10.84		
		133.	Installation of 3 No.s Handpumps at Dumkadhana and Keriya of Chhatarpur Grampanchayat	2014-15	3.20		
		134.	Boring deep bore well and providing submersible pump and switch room at Bisaldehi	2014-15	3.92		

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
			village uner Sukhadhana Panchayat.				
		135.	Boring with submersible pump at Pandhara near field of Mahesh yadav.	2014-15	2.59		
		136.	6 Nos. Hand Pumps at Vikrampur & Ghogari Villages of Gram Panchayat Vikrampur	2014-15	0.24		
		137.	3 Nos. Hand Pumps at Loniya Panchayat	2014-15	0.95		
		138.	Boring and installation of 6 hand-pumps at different villages of Shaktigarh Panchayat.	2014-15	1.94		
		139.	Installation of 6 Nos .hand-pumps at Jamkhorar Panchayat.	2014-15	5.88		
		140.	Installation of 1 hand-pump at Dhased gram Panchayat near Mahesh house.	2014-15	0.13		
		141.	Laying of water supply pipeline with pump and switch room at Jamgaon Gram Panchayat of Multai Tehsil.	2014-15	0.78		
		142.	Providing HDPE tanks and plateforms at different locations with providing HDPE pipeline at Bhogaikhapa village under Bhogaikhapa Panchayat.	2014-15	1.48		
		143.	Construction of RCC overhead tank of 1 lakh litres capacity with 12 m. staging alongwith (a) laying 80 mm dia.HDPE flexible pipe of 1000 m length from existing	2014-15	5.77		

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
			borewell to proposed OHT and (b) providing and fixing submersible pump of 7.5 HP with cable and electrical fittings. (Deobhilai village)				
		144.	Construction of RCC overhead tank with pipeline connection and distribution network at Sendurjana Gram Panchayat of Multai Tahsil.	2014-15	3.69		
		145.	Construction of RCC overhead tank of 1 lakh litres capacity with 12 m. statging alongwith (a) having 80 mm dia HDPE flexible pipe of 220 m length as raising main and distribution main from existing borewell to proposed OHT, (b) providing and laying of 50 mm dia HDPE flexible pipe of 200 m length for distribution network and (c) providing and fixing submersible pump of 7.5 HP with cable and electrical fittings (Banoor village)	2014-15	4.24		
		146.	Boring and installation of Submersible pump at Village Katangi of Grampanchayat Sivanpat	2014-15	3.29		
		147.	<b>Construction of Toilets Under Swatch Bharat Abhiyan in various villages of Betul District.</b>	2014-15	105		
		148.	Construction of 60 Boys and 123 Girls Toilet at Multai and Bhimpur blocks	2015-16	240.18		
		149.	Construction of 69 Boys and 107 Girls Toilet at Ghoradongri and	2015-16	226.71		

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
			Shahpur Blocks				
		150.	Construction of 34 Boys and 44 Girls Toilets in block in Block Amla, Athner. Betul, Chicholi. Of Betul District	2015-16	60.70		
		151.	Construction of 35 Boys and 34 Girls Toilets in Bhuranpur District	2015-16	84.74		
		152.	Medical Camps at different villages	2015-16	0.24		
		153.	Blacktopping of approach road from Chattarpur to Dhumkadhana	2017-18	19.06		
		154.	Swachhata Related activities	2017-18	1.00		
		155.	Swachhata Related activities	2017-18	1.89		
		156.	Special SwachhataPakhwara (15th Sep-2nd Oct)	2017-18	0.99		
		157.	Construction of boundary wall for primary school at Chhatarpur village of Chhatarpur panchayat	2018-19	10.00		
		158.	Arrangement of water facility for Keriya Umari Village from a village well (400 Mtr. ) by pipe and installation of submersible Pump in well	2018-19	1.94		
		159.	Drilling & installation of 4 nos. handpumps at village Pandhra of Pandhra panchayat	2018-19	4.45		
		160.	Drilling & installation of 4 nos. handpumpsSitakamath panchayat	2018-19	3.77		

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
		161.	Construction of 3 compost unit for solid waste management in villages	2018-19	2.70		
		162.	Construction of C.C Road (100mt) near byMridul's home to RES Talav in Gandhigram Village Gram Panchayat Shaktigarh	2019-20	6.56		
		163.	Organise Village Sports	2019-20	1.00		
		164.	Skill Development Training	2019-20	0.69		
		165.	Misc. Works	2019-20	1.85		
		166.	Covid-19 Various Material distribution	2019-20	0.32		
		167.	Arrangement of water facility in Village Gandhigram, Chordongri and Bisaldehi Gram Panchayat Sukhadhana	2019-20	4.14		
		168.	Distribution of Food packets to needy people	2019-20	2.68		
		169.	Construction of Road in Hirapalla Village Gram Panchayat Bhogaikhapa	2020-21	12.55		
		170.	Financial assistance to State Forest Dept for construction of Check dams in Forest Rehabilitate Village Sarni	2020-21	5.00		
		171.	construction of 1 boys & 1 Girls Toilet at Secondary School at Chattarpur Village	2020-21	1.89		
		172.	Construction of C.C Road (100mt) near bykangal's home to Ravidra's home in	2020-21	4.76		

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
			Gandhigram village				
		173.	SwachhataPakhwara Activity	2020-21	0.40		
		174.	SwachhataPakhwara Activity Rally	2020-21	0.60		
		175.	Organising Medical Camps	2020-21	1.00		
		176.	Organising Village Sports	2020-21	1.00		
		177.	Financial Assistance to Collector Betul for Covid	2021-22	25.00		
		178.	Financial Assistance to Collector Betul for distribution of battery operated tricycle to disabled persons	2021-22	10.00		
		179.	Distribution of Ration packets to needy people/ CovidCenters	2021-22	1.50		
		180.	Distribution of Mask and Sanitizers to Villagers in near byvillages	2021-22	1.00		
		181.	Swachhata Action Plan Activities	2022-23	1.50		
		182.	Financial assistance to Assistant Commissioner Tribal Welfare Betul for implementation of Smart Class room Solutions for improving learning outcomes and education quality in 15 govt Schools of Betul	2022-23	39.48		
		183.	Medical Camps Related to Osteoporosis ,Cancer Detection etc.	2022-23	1.91		

.No.	Description of Objections / Issues	Proposal for Disposal of objections				Budget Provision	Time-Line
		184.	Swachhata Competitions in Govt Schools in Near by Villages for Awareness	2022-23	0.20		
		185.	Swachhata Action Plan Activities	2023-24	1.99		
		186.	Medical Camps Related to Osteoporosis ,Cancer Detection etc. at Rajegaon Khapa on 07/10/23 & Bhogaikhapa Gram Panchayat on 16/12/23	2023-24	1.99		
		187.	Financial assistance to District Collector, Betul for implementation of Smart Classroom Solutions in govt. Ashram Schools of Betul District	2023-24	40		
		188.	Distribution of 100 bicycle to School going girls of Govt Schools in Ghoradongri Block	2023-24	5		
		189.	Financial assistance to District administration Betul for purchasing of medical & health related instrument	2023-24	14.98		
		190.	construction of road from hirapall to bhogaikhapa in bhogaildiapa gram panchayat	2023-24	22.82		
		191.	Making Water arrangement through hand pump in Bhogaikhapa Gram	2023-24	4.25		

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line				
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 40%; text-align: center;">Panchayat and Chhatarpur Gram Panchayat</td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> </tr> </table>		Panchayat and Chhatarpur Gram Panchayat				
	Panchayat and Chhatarpur Gram Panchayat							
7.	Mr. Devendra Kumar (R/o: Pathakhera) asked that, How the Noise Pollution will affect the life of the villagers?	<ul style="list-style-type: none"> <li>➤ The Subject mine is an operating underground mine with coal extracted by drilling and blasting and as on date there is no adverse effect of noise on the villagers.</li> <li>➤ As already mentioned, Continuous Miner will be deployed, which will eliminate noise generating operations like, drilling and blasting operations completely. In addition to that, entire coal winning operations will continue to take place in Underground coal faces only and with machine cutting coal instead of drilling and blasting. By this, during proposed enhancement in production capacity, there will be no additional impact on noise level.</li> <li>➤ All the results of Baseline Noise level Monitoring are well within the prescribed limit.</li> <li>➤ The likely impact on noise level due to proposed enhancement in capacity will be insignificant.</li> <li>➤ In addition to that, Tawa – II Expansion UG mine is located in the dense forest, which plays a role of noise barrier.</li> <li>➤ Hence, in future the impact of Mining activities on Noise environment will be negligible.</li> </ul>	Not Applicable.	Not Applicable.				
8.	Mr. Salan Dhurve (R/o: Pathakhera) said that, There may be cracks in the agricultural fields due to movement of vehicles. What steps will be taken by Project Proponent to mitigate the	<ul style="list-style-type: none"> <li>➤ The subject mine is an operating underground mine and till date there are no such cracks developed in the agricultural field due to movement of vehicles.</li> <li>➤ As already indicated, this proposal is for increasing the production capacity only with deployment of advance cutting machine thereby eliminating</li> </ul>	Not Applicable	Not Applicable				

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line
	above issue?	<p>drilling and blasting.</p> <ul style="list-style-type: none"> <li>➤ The working depth of Tawa – II Expansion UG Mine is more than 150 meter, further as already mentioned, Continuous Miner will be deployed, which will eliminate drilling and blasting operations completely, which will directly eliminate the vibrations hazards directly generated due to drilling and blasting. Hence, there is a negligible possibility of cracks generation on surface. Further, all the activities in Mine will be carried out with Due permission from DGMS and all the preventive measures and monitoring will be done to avoid damage on surface land.</li> <li>➤ In addition to that, Coal transportation road is located 03 km away from the village. Hence there is a negligible chance of cracks generation.</li> </ul>		
9.	Mr. Vivekanand Yadav (R/o: Pathakhera) said that, What steps will be taken by Project Proponent to ensure the Safety of employees?	<ul style="list-style-type: none"> <li>➤ This is an operating underground mine and is being run only with due permission from Directorate General of Mines Safety(DGMS).</li> <li>➤ There are well laid out statutes viz. Coal Mines Regulation, 2017, Mines Act 1952, Mines Rules 1957 and similar rules covering all the aspects of safety of employees including the Vocational Training Rules.</li> <li>➤ All these statutory provisions are being followed during the current operation of the mine so as to ensure complete safety of employees. It may be worthwhile to mention here that workers are give training and re-training as per the Vocational Training Rules so that, they can perform their duties in a safe manner.</li> <li>➤ In the same line, all activities in this UG mine during enhancement in capacity will be carried out with due permission from DGMS and all preventive measures and monitoring will be done so to ensure the safety of employees.</li> <li>➤ This proposal is for enhancement in production capacity with technologically advance coal mining equipment. This equipment will completely eliminate drilling and blasting operations. Further , It is an remote control operated equipment, which will be remotely operated by an employee from safe distance, Hence Higher Safety standards will be achieved through this</li> </ul>	<ul style="list-style-type: none"> <li>➤ This is in - built in the Project cost and being carried out departmentally.</li> </ul>	<ul style="list-style-type: none"> <li>➤ The work is being carried in a routine manner.</li> </ul>

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line
		<p>development.</p> <ul style="list-style-type: none"> <li>➤ In mine, all the employees with illness like BP, Heart Problem, etc have been identified and Work allocation has been carried out according to their fitness level.</li> <li>➤ PPEs are being provided to all the employees during working hours.</li> </ul>		
10.	<p>Mr. Divakar Kasuvat (R/o: Shobhapur) raised his query in writing that, There is a dust problem due to vehicle transportation in Village. What steps will be taken by Project Proponent to mitigate air pollution?</p>	<ul style="list-style-type: none"> <li>➤ In this regard, it is mentioned that, Shobhapur Village Road is neither being used for Coal transportation nor it is under administrative jurisdiction of WCL.</li> <li>➤ It may be worthwhile to mention here that, Shobhapur village is far away from the subject mine activity area.</li> <li>➤ As already indicated, there are already measures in place for control of air pollution generated at the mine. The details are as follows:-               <ol style="list-style-type: none"> <li>1. Asphaltting of Roads with an Expenditure of Rs 2.6351 Crore since FY 2012-13</li> <li>2. Arrangements of Mist Spray and Fixed sprinklers on Conveyor belts and Coal stock yard with an Expenditure of Rs 9.17 Lakhs since FY 2019-20</li> <li>3. Regular monitoring of Ambient Air Quality in Mine. Total Expenditure of Rs. 78.31 Lakhs has been incurred between FY 2007-08 to FY 2021-22 for monitoring of regular environmental parameters.</li> </ol> </li> </ul>	Not Applicable	Not Applicable
11.	<p>Mr. Rohit Prajpati (R/o: Shobhapur) express his views in writing that, He has no grievance.</p>	Not Applicable.	Not Applicable	Not Applicable

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line																											
12.	Mr. Krushnakant Suryavanshi (R/o: Shobhapur) express his views in writing that, Medical facilities should be provided to Villagers.	<p>➤ CSR Clinic has been established in Area Hospital of WCL, Pathakhera Area to cater the free healthcare facilities to local population. In addition to that, Medical Camps have been organized by WCL in nearby villages on regular basis. The same practice will be continued in future.</p> <p>➤ Information on Health Camps/ Diagnostic Camps, Health Awareness Camp / Specific Health Camps (HIV-AIDS, Eye, Diabetes, Cancer, etc.) conducted in the peripheral areas of M/s. WCL, Pathakhera Area under CSR are as follows:-</p> <table border="1"> <thead> <tr> <th>F.Y.</th> <th>Health Camps / Diagnostic Camps / Health Awareness Camps / Specific Health Camps [HIV-AIDS, EYE, DIABETES, CANCER etc.] / Mobile Health Camps</th> <th>Venue of Camp</th> <th>Total No. of Beneficiaries</th> </tr> </thead> <tbody> <tr> <td>2016-17</td> <td>FEMALE GENERAL HEALTH CAMP</td> <td>SHOBHAPUR VILLAGE</td> <td>78</td> </tr> <tr> <td>2017-18</td> <td>SCHOOL HEALTH CAMP</td> <td>SHOBHAPUR VILLAGE</td> <td>155</td> </tr> <tr> <td>2018-19</td> <td>SCHOOL HEALTH CAMP</td> <td>SHOBHAPUR VILLAGE</td> <td>167</td> </tr> <tr> <td>2019-20</td> <td>HYPERTENSION DETECTION CAMP</td> <td>RAJE GAON KHAPA VILLAGE</td> <td>156</td> </tr> <tr> <td rowspan="2">2021-22</td> <td>EYE DISEASE DETECTION CAMP</td> <td>SHOBHAPUR VILLAGE</td> <td>153</td> </tr> <tr> <td>GENERAL HEALTH CHECKUP CAMP</td> <td>RAJE GAON KHAPA</td> <td>143</td> </tr> </tbody> </table>	F.Y.	Health Camps / Diagnostic Camps / Health Awareness Camps / Specific Health Camps [HIV-AIDS, EYE, DIABETES, CANCER etc.] / Mobile Health Camps	Venue of Camp	Total No. of Beneficiaries	2016-17	FEMALE GENERAL HEALTH CAMP	SHOBHAPUR VILLAGE	78	2017-18	SCHOOL HEALTH CAMP	SHOBHAPUR VILLAGE	155	2018-19	SCHOOL HEALTH CAMP	SHOBHAPUR VILLAGE	167	2019-20	HYPERTENSION DETECTION CAMP	RAJE GAON KHAPA VILLAGE	156	2021-22	EYE DISEASE DETECTION CAMP	SHOBHAPUR VILLAGE	153	GENERAL HEALTH CHECKUP CAMP	RAJE GAON KHAPA	143	<p>The work of CSR Clinic has been carried out in departmental manner and will be continued in future.</p> <p>For Medical Camps: Provision of Rs. 6.00 Lacs has been provisioned in CSR Action Budget 2024-25</p>	The work is being carried in a routine manner.
F.Y.	Health Camps / Diagnostic Camps / Health Awareness Camps / Specific Health Camps [HIV-AIDS, EYE, DIABETES, CANCER etc.] / Mobile Health Camps	Venue of Camp	Total No. of Beneficiaries																												
2016-17	FEMALE GENERAL HEALTH CAMP	SHOBHAPUR VILLAGE	78																												
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	GENERAL HEALTH CHECKUP CAMP	RAJE GAON KHAPA	143																												

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		<table border="1"> <tr> <td></td> <td></td> <td>VILLAGE</td> <td></td> </tr> <tr> <td></td> <td>DIABETES DETECTION CAMP</td> <td>SHOBHAPUR VILLAGE</td> <td>96</td> </tr> <tr> <td><b>2022-23</b></td> <td>GENERAL HEALTH CHECKUP CAMP</td> <td>BHOGAIKHAP A VILLAGE</td> <td>147</td> </tr> <tr> <td rowspan="2"><b>2023-24</b></td> <td>MEDICAL CAMP RELATED TO OSTEOPOROSIS, CANCER DETECTION</td> <td>RAJE GAON KHAPA VILLAGE</td> <td>250</td> </tr> <tr> <td>MEDICAL CAMP RELATED TO OSTEOPOROSIS, CANCER DETECTION</td> <td>BHOGAIKHAP A VILLAGE</td> <td>250</td> </tr> </table> <p>Further, Medical Camps will be organized in the nearby Villages of Tawa – II UG Mine on Quarterly Basis.</p>			VILLAGE			DIABETES DETECTION CAMP	SHOBHAPUR VILLAGE	96	<b>2022-23</b>	GENERAL HEALTH CHECKUP CAMP	BHOGAIKHAP A VILLAGE	147	<b>2023-24</b>	MEDICAL CAMP RELATED TO OSTEOPOROSIS, CANCER DETECTION	RAJE GAON KHAPA VILLAGE	250	MEDICAL CAMP RELATED TO OSTEOPOROSIS, CANCER DETECTION	BHOGAIKHAP A VILLAGE	250		
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13.	Mr. Kamal Narre (R/o: Bhogaikhapa) express his views in writing that, He has no objection with the project.	Not Applicable.	Not Applicable	Not Applicable																			
14.	Mr. Pramod Kumar (R/o: Bagdona) raised his query in writing that, What steps will be taken for medical facilities of Mine workers?	➤ <b>Already elaborated in the Point No 03.</b>	The work has been carried out in departmental manner and will continue to be carried out as before.	The work is being carried in a routine manner.																			
15.	Mr. Dharmraj Soni (R/o: Pathakhera) express his views in writing that, Employment opportunities should be generated for society.	➤ As per the Men Power report of August 2022, Total 776 people are directly employed in the Tawa – II UG Expn. Mine. In addition to that, total 230 contractual workers have been employed in the Mine. In addition, WCL under its CSR Programme is making all efforts skill development of the rural folks to make them employable/ entrepreneur. The details are as follows:-  ➤ Western Coalfields Ltd under the MOU of Coal India Ltd with Central Institute of Petrochemicals Engineering & Technology (CIPET) Bhopal	The work has been carried out in routine manner.  The details of expenditure in previous 3 years on CIPET skill	The CIPET skill development training course has been completed on in 04/03/2024.																			

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		<p>sponsoring skill development training for local villagers/youth of Betul and Chhidwara district of Madhya Pradesh under its CSR.</p> <ul style="list-style-type: none"> <li>➤ It is basically 6 monthly Machine Operator- Plastic Processing training course. It is fully residential course and all the expenses incurred by WCL under the CSR head.</li> <li>➤ <b>In the FY 2020-21</b> 27 local youth of Betul and Chhindwara district with expenditure of Rs 18.90 lacs were trained.</li> <li>➤ Beneficiaries Details is as below-</li> </ul> <table border="1"> <thead> <tr> <th>Gender</th> <th>SC</th> <th>ST</th> <th>OBC</th> <th>Others</th> </tr> </thead> <tbody> <tr> <td>Male</td> <td>4</td> <td>2</td> <td>11</td> <td>4</td> </tr> <tr> <td>Female</td> <td>2</td> <td>0</td> <td>3</td> <td>0</td> </tr> <tr> <td><b>Total</b></td> <td><b>6</b></td> <td><b>2</b></td> <td><b>14</b></td> <td><b>4</b></td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>➤ Out of 27 villagers 26 placed in Private companies on an average salary of Rs 11,000 per month.</li> <li>➤ <b>In the FY 2021-22</b> trained 36 local youth of Betul and Chhindwara district with expenditure of Rs 25.20 lacs, Beneficiaries Details is as below-</li> </ul> <table border="1"> <thead> <tr> <th>Gender</th> <th>SC</th> <th>ST</th> <th>OBC</th> <th>Others</th> </tr> </thead> <tbody> <tr> <td>Male</td> <td>9</td> <td>7</td> <td>13</td> <td>2</td> </tr> </tbody> </table>	Gender	SC	ST	OBC	Others	Male	4	2	11	4	Female	2	0	3	0	<b>Total</b>	<b>6</b>	<b>2</b>	<b>14</b>	<b>4</b>	Gender	SC	ST	OBC	Others	Male	9	7	13	2	<p>development training are as follows:-</p> <p>20-21- Rs. 18.90 lakhs</p> <p>21-22- Rs. 25.20 Lakhs</p> <p>22-23- Rs 70.00 Lakhs</p> <p>23-24- Rs 63.00 Lakhs</p>	
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.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line
16.	Mr. Satyendra Goswami (R/o: Pathakhera) express his views in writing that, He has no objection with the project.	Not Applicable.	Not Applicable	Not Applicable
17.	Mr. Monu Bhalavi (R/o: Hirapalla) express his objection in writing regarding land subsidence due to mining activities.	<ul style="list-style-type: none"> <li>➤ The subject mine is an operating underground mine and till date there is no such adverse impact on surface due to subsidence.</li> <li>➤ The present proposal is for enhancement in production capacity only with no change in technology, mining area, depth of working and workable seams</li> <li>➤ The working depth of Tawa – II Expansion UG Mine is more than 150 meter, further as already mentioned, Continuous Miner will be deployed, which will eliminate drilling and blasting operations completely, which will directly eliminate the vibrations hazards directly generated due to drilling and blasting. Hence, there is a negligible possibility of cracks generation on surface.</li> <li>➤ The detailed Subsidence Prediction Study has also been carried out.</li> <li>➤ Further, all the activities in Mine will be carried out with Due permission from DGMS and all the preventive measures and monitoring will be done to avoid damage on surface land. Hence, there is a negligible chance of subsidence due to mining activities.</li> </ul>	<p>The work has been carried out by Project Proponent and will continue to be monitored and complete safety ensured as per the requirement of the Statute.</p> <p>Amount of 1.43 Lkhs was spent for filling of minor cracks generated due to subsidence since year 2022-23.</p>	The work is being carried in a routine manner.
18.	Mr. Yashwant Rao Deshmukh (R/o: Shobhapur) raised his query in writing that, What steps will be taken by Project Proponent for welfare of society?	<ul style="list-style-type: none"> <li>➤ <b><u>Already elaborated in the Point No 03,12 &amp; 15.</u></b></li> </ul>	-	-
19.	Mr. Alok Singh express his views in writing that, He has no objection with the project. It is good development.	Not Applicable.	Not Applicable	Not Applicable

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line
20.	Mr. Namdev Ghodki (R/o: Shobhapur) raised his query in writing that, What steps will be taken by PP for protection of nearby vegetation cover?	<ul style="list-style-type: none"> <li>➤ This proposal is only for enhancement in production capacity with technologically advance coal mining equipment. These equipment will completely eliminate drilling and blasting operations. So far the Mining Area is concerned there is no change. The Method of work will continue to be same. As on date there is no impact on vegetation cover due to operation of Tawa – II UG Mine &amp; in future also There will not be any adverse impact as no tree cutting or additional surface development will be there for the proposed expansion.</li> <li>➤ Tawa – II Expn. is an underground mine. All the mining activities i.e. Loading, unloading, transportation of coal from coal face to surface has been carried out in the closed condition below surface w.r.t. an open cast mine where all the activities are being carried out in exposed circumstances.</li> <li>➤ In addition to that, Total 2,37,150 No. of Trees have been planted and maintained over 94.799 Ha. area between 1995-96 to 2023-24.</li> <li>➤ Total 17,561 plants have been distributed between 1995-96 to 2023-24.</li> <li>➤ Tawa – II Expansion UG mine is located in the dense forest and no vacant land is available for further plantation.</li> <li>➤ Satellite Mapping of Vegetation cover has been carried out once in every 3 years by WCL and no adverse impact on vegetation has been observed. Hence , in future the impact of Mining activities on Vegetation cover will be negligible.</li> </ul>	The work has been carried out by Project Proponent and monitoring will continue to be carried out.	The work is being carried in a routine manner.
21.	Mr. Raju Deheriya (R/o: Hirapalla) express his views in writing that, It is good development. Employment opportunities should be generated for society.	<ul style="list-style-type: none"> <li>➤ <b><u>Already elaborated in the Point No 15.</u></b></li> </ul>	<p>The work has been carried out in routine manner.</p> <p>The details of expenditure in previous 3 years on CIPET skill development training are as follows:-</p>	The CIPET skill development training course has been completed on in 04/03/2024.

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line
			20-21- Rs. 18.90 lakhs 21-22- Rs. 25.20 Lakhs 22-23- Rs 70.00 Lakhs 23-24- Rs 63.00 Lakhs	
22.	Mr. Ram Vinay Singh express his views in writing that, Education and health facilities should be provided to local people.	➤ <b><u>Already elaborated in the Point No 6,12 &amp; 15.</u></b>	CSR Action Plan 2024-25  Budget Provision of <b>Rs. 6.00 Lakhs</b> has been allotted for Medical Camps  Budget Provision of <b>Rs. 13.92 Lakhs</b> has been allotted for Smart Class Rooms	Smart Classrooms will be established by WCL, Pathakhera Area in 6 Ashram Schools of Betul District with the budget provision of Rs. 13.92 lakhs by March, 2025.

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line
			solutions	
23.	Mr. Kismat rao (R/o: Shobhapur) express his views in writing that, CSR works have been carried out by WCL & MPEB. Further How the local will get the same benefits in future?	➤ <b><u>CSR Facilities of WCL has been Already elaborated in the Point No 6,12 &amp; 15 .</u></b>	CSR Action Plan 2024-25 Enclosed  Total Provision of Rs. 156.92 Lakhs has been kept in CSR Action Plan 2024-25	March 2025
24.	Mr. Kallu (R/o: Multai) extend his gratitude towards Project Proponent for good works carried out by WCL.	Not Applicable	Not Applicable	Not Applicable
25.	Mr. Kishan Yadav (R/o: Shobhapur) raised his query in writing that, What steps will be taken by Project Proponent to ensure the Safety of employees?	➤ <b><u>Already elaborated in the Point No 9.</u></b>	-	-
26.	Mr. Muhammad Aman Nizami (R/o: Pathakhera) express his views in writing that, He has no objection with the project. It is good development.	Not Applicable	Not Applicable	Not Applicable
27.	Mr. Praveen Kumar (R/o: Salaiya) express his views in writing that, Medical facilities should be provided to villagers. In addition to that, Hand pump should be established by Project Proponent.	➤ <b><u>CSR &amp; Medical Facilities of WCL has been Already elaborated in the Point No 6 &amp; 12.</u></b> ➤ <b><u>Total 62 hand Pumps have been constructed by WCL in nearby villages since FY 2012-13.</u></b>	CSR Action Plan 2024-25  Budget Provision of Rs. 6.00 Lakhs has been allotted for	March, 2025.

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line
			<p>Medical Camps</p> <p>Budget Provision of <b>Rs. 6.00 Lakhs</b> has been allotted for Hand Pumps Installation.</p>	
28.	Mr. Abdul Hamiz (R/o: Pathakhera) express his views in writing that, It is good development.	Not Applicable	Not Applicable	Not Applicable
29.	Mr. Devendra Kumar (R/o: Pathakhera) raised his query in writing that, What kind of impact will be there on public Health due to Noise Pollution?	<ul style="list-style-type: none"> <li>➤ As already mentioned, Continuous Miner will be deployed, which will eliminate noise generating operations like, drilling and blasting operations completely. In addition to that, Majority of mining operations will take place in Underground coal face which it self is an adequate noise barrier. By this, during operation there will be no additional impact on noise level.</li> <li>➤ All the results of Baseline Noise level Monitoring are well within the prescribed limit.</li> <li>➤ In addition to that, Tawa – II Expansion UG mine is located in the dense forest, which plays a role of noise barrier.</li> <li>➤ Hence , in future the impact of Mining activities on Noise environment will be negligible.</li> </ul>	The work has been carried out in departmental manner.	The work is being carried in a routine manner.
30.	Mr. Rajendra Sonare express his views in writing that, Coal pieces falls on transportation road from trucks created the problem of Mud generation during monsoon season.	<ul style="list-style-type: none"> <li>➤ Coal is transported by covered trucks by MPPGCL. Formal communication has been carried out by Project Proponent to MPPGCL for strictly avoiding any overloading of the vehicle with coal for prevention of spillage.</li> <li>➤ As per the Long Term, Coal Supply Agreement officially signed between WCL</li> </ul>	Not Applicable	Not Applicable

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line
		<p>and MPPGCL on 02/01/2013, The Entire Work of Coal transportation, is comes under the scope of MPPGCL, Sarni and accordingly MPPGCL, Sarni is regulating and supervise the job of Coal transportation from Mine to STPS Sarni.</p> <p>➤ A letter in this regard has been sent the MPPGCL Authority for quick redressal.</p>		
31.	<p>Mr. Mohan Sindurkar (R/o: Bhogaikhapa) express his views in writing that, Employment opportunities should be generated for society.</p>	<p>➤ <b><u>Employment Opportunities through skill development generated by WCL has been Already elaborated in the Point No 15 .</u></b></p>	<p>The work has been carried out in routine manner.</p> <p>The details of expenditure in previous 3 years on CIPET skill development training are as follows:-</p> <p>20-21- Rs. 18.90 lakhs</p> <p>21-22- Rs. 25.20 Lakhs</p> <p>22-23- Rs 70.00 Lakhs</p> <p>23-24- Rs 63.00 Lakhs</p>	<p>The CIPET skill development training course has been completed on in 04/03/2024.</p>

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line
32.	Mr. Anil (R/o: Bhogaikhapa) express his views in writing that, There is a water shortage during Summer Season.	<ul style="list-style-type: none"> <li>➤ Hand Pumps has been constructed in Bhogaikhapa Village &amp; Chhatarpur Village for making Water arrangements with an expenditure of Rs. 4.25 lakhs during FY 2023-24.</li> <li>➤ <b><u>Total 62 hand Pumps have been constructed by WCL in nearby villages since FY 2012-13.</u></b></li> </ul>	-	-
33.	Mr. Premlal (R/o: Shobhapur) raised his query in writing that, What steps will be taken by Project Proponent to provide employment to local youth?	<ul style="list-style-type: none"> <li>➤ <b><u>Employment Opportunities through skill development generated by WCL has been Already elaborated in the Point No 15 .</u></b></li> </ul>	<p>The work has been carried out in routine manner.</p> <p>The details of expenditure in previous 3 years on CIPET skill development training are as follows:-</p> <p>20-21- Rs. 18.90 lakhs</p> <p>21-22- Rs. 25.20 Lakhs</p> <p>22-23- Rs 70.00 Lakhs</p> <p>23-24- Rs 63.00 Lakhs</p>	<p>The CIPET skill development training course has been completed on in 04/03/2024.</p>

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line
34.	Mr. Sundar lal (R/o: Hirapalla) raised his query in writing that, what kind of effect will be there on air environment due to mining activities?	<p>➤ Tawa – II Expn. is an underground mine. All the mining activities i.e. Drilling, Blasting, Loading, unloading, transportation of coal from district to surface has been carried out in the closed condition below surface w.r.t. an open cast mine where all the activities are being carried out in exposed circumstances.</p> <p>➤ Technologically advance coal cutting equipment (i.e. Continuous Miner) will be deployed in the Mine. These equipment will completely eliminate drilling and blasting operations, because of this, generation of noxious gases, blasting fumes, dust, noise and vibrations due to drilling and blasting activities will be eliminated completely and there will be substantial reduction in dust. In addition to that, Continuous Miner equipment has an inbuilt automatic Mist fogging system which effectively settle down the dust . Hence, There is negligible impact on air environment. In addition to that, Following air pollution control measures have been taken by Project Proponent :</p> <ol style="list-style-type: none"> <li>1. Asphaltting of Roads with an Expenditure of Rs 2.6351 Crore since FY 2012-13</li> <li>2. Arrangements of Mist Spray and Fixed sprinklers on Conveyor belts and Coal stock yard with an Expenditure of Rs 9.17 Lakhs since FY 2019-20</li> <li>3. Regular monitoring of Ambient Air Quality in Mine. Total Expenditure of Rs. 103.96 Lakhs has been incurred between FY 2007-08 to FY 2023-24 for monitoring of regular environmental</li> </ol>	<p>The work is being carried out in routine manner and will continue to be carried out.</p> <p>Provision of. Rs.6.61 Lakhs has been made in for Fog Canon for air pollution control measures in Environment Capital Budget 2024-25.</p>	The work is being carried in a routine manner.

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line
		parameters.		
35.	Mr. Rohit Prabhakar (R/o: Shobhapur) express his views in writing that, He has no objection with the project.	Not Applicable.	Not Applicable.	Not Applicable.
36.	Mr. Jayram Suryavanshi (R/o: Rajegaon khapa) raised his query in writing that, what kind of effect will be there on water environment due to mining activity?	<ul style="list-style-type: none"> <li>➤ In this regard, it may be mentioned here that Tawa - II UG mine is an operating underground mine in the area. The entire coal winning operations are being carried out below ground and on surface there is only one activity i.e. transportation of coal from pit - head to the Sarni TPS. There is no such adverse impact noticed so far in the area on ambient air quality, water quality or surface land because of the mining activities.</li> <li>➤ To assess the existing scenario, baseline environmental quality w.r.t. ambient air, ground and Surface water quality, soil quality, ambient noise quality, flora &amp; fauna etc. has been generated / collected and it is incorporated in the Public Hearing Document shared with all. It may be seen that all parameters are well within the permissible limits.</li> <li>➤ The above proposal is only for enhancement in production capacity from the mine with technologically advance coal mining equipment through deployment of Continuous Miner, which eliminates drilling and blasting. There is no change in Working depth, coal seam or geological structure. Hence, there will be insignificant impact on physical environment.</li> <li>➤ Further, based on the aforesaid baseline scenario, Impact Assessment Studies have also been carried out considering the proposed enhancement in capacity. The details have also been incorporated in the Public Hearing/ Draft EIA/EMP document shared with all. It may be seen that, the proposed results are also within permissible limit.</li> <li>➤ Considering all the above, the Environmental Management Plan has also been integrated with the EIA and all provisions have been made to carry out</li> </ul>	<ul style="list-style-type: none"> <li>➤ The baseline data generation and other studies etc. have been completed already.</li> <li>➤ The monitoring of regular environmental parameters as per the existing EC is being carried out departmentally through CMPDIL (a subsidiary of CIL/Sister Company) and the same will be continued. Total Expenditure of Rs. 103.96 Lakhs has been incurred since FY 2007-08 for monitoring of regular</li> </ul>	The work will be carried in a routine manner.

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line
		<p>the mining activities during the proposed enhancement in capacity in a manner so that, there is insignificant impact on physical environmental attributes.</p> <ul style="list-style-type: none"> <li>➤ It may be mentioned here that, this is an underground mine only and the mining activity area will be remaining the same.</li> <li>➤ As per the existing system, Strata seepage water, which contains only suspended coal particles initially collected in the Underground mine sump provided at the dip most point having huge capacity. After getting adequate retention time in UG sump, the strata seepage water is pumped out and treated through Surface Settling Tank where in the remaining suspended particles get settled. Hence, there will be negligible impact on Water quality.</li> <li>➤ So far as ground water is concerned, as on date, as seen from the ground water monitoring data there is no impact on GW table. As already stated, the depth of working etc. Is not proposed to be increased, so there will insignificant impact on ground water table due to the proposed expansion.</li> </ul>	<p>environmental parameters.</p> <ul style="list-style-type: none"> <li>➤ The Water Pollution mitigation measures as stated in the previous column are being carried out with the expenditure of Rs. 1.59 Crores.</li> <li>➤ Total Expenditure of Rs. 6.94 Lakhs has been incurred since FY 2015-16 for monitoring of Ground water level &amp; Ground water Quality.</li> </ul>	
37.	<p>Mr. Manoj Salam (R/o: Hirapalla) express his views in writing that, Water tank should be installed in our village. In addition to that, Employment opportunities should be generated for society.</p>	<ul style="list-style-type: none"> <li>➤ <b><u>Employment Opportunities through skill development generated by WCL has been Already elaborated in the Point No 15.</u></b></li> <li>➤ Hand Pumps has been constructed in Bhogaikhapa - Hirapalla Village &amp; Chhatarpur Village for making Water arrangements with an expenditure of Rs. 4.25 lakhs during FY 2023-24.</li> <li>➤ <b><u>Total 62 hand Pumps have been constructed by WCL in nearby villages since FY 2012-13.</u></b></li> </ul>	<p>The work has been carried out in routine manner.</p> <p>The details of expenditure in previous 3 years on CIPET skill development training are as follows:-</p>	<p>The CIPET skill development training course has been completed on in 04/03/2024.</p>

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line
			20-21- Rs. 18.90 lakhs 21-22- Rs. 25.20 Lakhs 22-23- Rs 70.00 Lakhs 23-24- Rs 63.00 Lakhs	
38.	<p>Mr. Madan (R/o: Shobhapur) raised his query in writing that, whether the ground water depletion will be occurred due to mining?</p>	<p>The subject mine is an operating underground mine and till date there is no such records of ground water depletion.</p> <p>In order to assess the same, the monitoring of ground water levels are being carried in the villages in the buffer zone of Tawa - II UG project.</p> <p>From the results, it can be seen that there is no adverse impacts.</p> <p>Further, a detailed hydro-geological study has been carried along with impact assessment and subsequent mitigation plan. The details have already been incorporated in the Public Hearing Document shared with all.</p> <p>The monitoring will continue to be carried out during the enhancement stage also and if need arises appropriate mitigation plan will be implemented.</p>	<ul style="list-style-type: none"> <li>➤ The work is being carried out in routine manner.</li> <li>➤ Total Expenditure of Rs. 6.94 Lakhs has been incurred since FY 2015-16 for monitoring of Ground water level &amp; Ground water Quality.</li> </ul>	<p>The work is being carried in a routine manner.</p>

.No.	Description of Objections / Issues	Proposal for Disposal of objections	Budget Provision	Time-Line
39.	Mr. Dharmu Maskole (R/o: Ratamati) express his views in writing that, He did not get compensation for the death of his father occurred due to an accident.	The concerned person is requested to contact mine management for his grievance with papers. His grievance will be addressed.	Not Applicable	Not Applicable
40.	Mr. Rahul Uike (R/o: Bhogaikhapa) express his views in writing that, There is no road constructed between Bhogaikhapa and Hirapalla, which resulted into difficulty in transportation.	<p>During 2020-21, RCC road has been constructed in Bhogaikhapa Village with the expenditure of Rs. 12.30 Lakhs from CSR Budget 2020-21. (Photographs of Road attached herewith)</p> <p>During 2023-24, RCC road has been constructed in Bhogaikhapa Village with the expenditure of Rs. 22.82 Lakhs from CSR Budget 2023-24. (Photographs of Road attached herewith)</p>	Not Applicable	Not Applicable
41.	Mr. Kamlesh Mohbe (R/o: Salaiya) express his views in writing that, Service of Contractual Mine workers should be regularized.	This is a policy related matter and not related with the Environmental issues of Project.	Not Applicable	Not Applicable



75  
आज़ादी का  
अमृत महोत्सव



## वेस्टर्न कोलफील्ड्स लिमिटेड

(भारत सरकार का उपक्रम एवं मिनरीयल कंपनी)  
(कोल इंडिया लिमिटेड की अनुबंधी कंपनी)

सिविल अभियांत्रिकी विभाग,  
महाप्रबंधक कार्यालय, पाथाखेड़ा क्षेत्र,  
पाथाखेड़ा, जिला-बेतूल (म.प्र.), पिन-460449,  
दूरभाष: 07146-271363/ 271433  
CIN - 1110100MLI1975GOI018626



## WESTERN COALFIELDS LIMITED

(A Government of India Undertaking)

(A Miniratna Company)

(A Subsidiary of Coal India Limited)

Department of Civil Engineering,

Office of the General Manager, Pathakhera Area,  
Pathakhera, District - Betul (MP), PIN - 460449

Telephone: 07146-271363/ 271433

Website: <http://westerncoal.in>

संदर्भ संख्या/ Ref. No.: WCL/PKD/Civil/2023-24/F-189/ 600

दिनांक/Date: 05/01/2024

प्रति To,

Shri Mohammad Imran Siddique

Staff qt. Colony Rakhkol, Damua

District- Chhindwara (M.P.) Pin-480555

Vendor Code  
10007612

PAN NO. CJTPS5618E	GST CODE: 23CJTPS5618E1ZV
Mobile No.9479488860	Email: imrans0503@gmail.com

विषय/Sub.: Letter of Acceptance (LOA)/Letter of Award (LOA) for the work of "Construction of Road from Hirapalla towards Bhogaikhapa in Bhogaikhapa village under CSR activity 2023-24"

संदर्भ/Ref.: NIT No.PK3550-CIV-E-20-2023-24 dated 04/12/2023, S.No.2

Tender ID: 2022\_WCL\_295248\_2

महोदय/Sir,

With reference to above, this is to communicate the approval of the Competent Authority to award the subject work to you for a total value of Rs. 21,49,956.58 (Rupees twenty-one lakh forty-nine thousand nine hundred fifty-six and paise fifty-eight only) including GST @ 18% as per following details:

1) Details of value of work are as under:

(i)	Value of work (excluding GST)	Rs. 1821997.10
(ii)	CGST payable by the contractor @ 9%	Rs. 163979.74
(iii)	SGST payable by the contractor @ 9%	Rs. 163979.74
(iv)	Total Contractual amount (Work Order Value)	Rs. 21,49,956.58

2) Above is subject to the following, in line with the tender conditions:

- That payment of GST and GST Compensation Cess is responsibility of service provider/ Contractor.
- That the payment of GST and GST Compensation Cess by Western Coalfields Limited (WCL) to bidder /contractor (if GST payable by bidder /contractor) would be made only on the latter submitting a Bill/invoice in accordance with the provision of relevant GST Act and the rules made thereunder and after online filing of valid return on GST portal.
- That input tax credit is to be availed by WCL as per rule, if applicable. If WCL fails to claim Input Tax Credit (ITC) on eligible Inputs, input services and Capital Goods or the ITC claimed is disallowed due to failure on the part of supplier/vendor of goods and services in incorporating the tax invoice issued to WCL in its relevant returns under GST, payment of CGST & SGST or

Name: Imran Siddique  
Civil & training contractor

अमरुत अधिकारी (सिविल)  
Staff Officer (C)  
पाथाखेड़ा क्षेत्र (PKD Area)

- XII) That the Engineer - in - Charge for this work will be Subordinate Engineer (Civil)/ Incharge, Pathakhera Civil Division, Pathakhera Area.
- XIII) That the Paying Authority for this work will be the Area Finance Manager, WCL, Pathakhera Area.
- XIV) That as per tender conditions, the notification of award will constitute the formation of the Contract.
- XIV) That all other terms and conditions as detailed in the Bid document, shall also be binding on you and shall be treated as the part of the contract.

For further instructions, please contact Subordinate Engineer (Civil)/ Incharge, Pathakhera Civil Division, Pathakhera Area.

संलग्न/Enclosure(s): Schedule of quantity.


भवदीय/Yours.


अमला अधिकारी (सिविल) / Staff Officer (Civil).

पाथकहेरा क्षेत्र/ Pathakhera Area

प्रतिलिपि/Copy to:-

1. The Area General Manager, Pathakhera Area
2. The General Manager (Operations), Pathakhera Area
3. The Staff Officer (Mining), Pathakhera Area
4. The Area Personnel Manager, Pathakhera Area
5. The Manager (P)/Add. CSR, Pathakhera Area
6. The Area Finance Manager, Pathakhera Area: with reference to BC No. WCL/PKD/BC 23-24/CSR/01 dated 04/01/2023 for Rs. 21,49,957/-
7. The Dy. Manager(F), Cash Section, Pathakhera Area
8. The Subordinate Engineer (Civil)/ Incharge, Pathakhera Civil Division, Pathakhera Area
9. The RLC (Central), NirmanSadan, CGO Complex, Room No.306, 1<sup>st</sup> floor, Arera Hills, Behind Govt. Press, Bhopal - 462 016 (MP).

  
Subordinate Engineer (Civil) Incharge,  
Pathakhera Civil Division,  
Pathakhera Area

  
Staff Officer (Civil),  
Pathakhera Area

**SCHEDULE OF QUANTITY**

Name of work: Construction of Road from Hirapalla towards Bhogalkhapa village under CSR activity 2023-224

NIT No. PK3550-CIV-E-20-2023-24 dated 04/12/2023 S. No. 2

Tender ID: 2023\_WCI\_295248\_2

Name of Contractor: Shri Mohammad Imran Siddique

S. No.	Item Description (All the items are from CPWD BSR 2018)	Quantity	Units	Estimated rate per unit (Rs.)	Amount excluding GST (Rs.)
1	Item code 2.6.1 Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge. All kinds of soil	635.00 609.	cum	151.3	96075.50
2	Item code 2.7.1 Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge. Ordinary rock	50.00 11.81	cum	291.75	14587.50
3	Item code 2.27 Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete	194.00 199.74	cum	1368.65	265518.10
4	Item code 4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources).	194.00 207.17	cum	4835.3	938048.20
5	Item code 4.1.2 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	291.00 310.69	cum	6601	1920891.00
6	Item code 5.9.1 Centering and shuttering including strutting, propping etc. and removal of form for: Foundations, footings, bases of columns, etc. for mass concrete.	265.00 386.86	sqm	252.15	66819.75
7	Item code 2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	510.00 466.12	cum	172.2	87822.00
					3389762.05
					46.25% - 1567764.94
Total excluding GST					1821997.10
CGST payable by the contractor @ 9%					163979.74
SGST payable by the contractor @ 9%					163979.74
Total Contractual amount (including GST)					21,49,956.58

(Rupees twenty-one lakh forty-nine thousand nine hundred fifty-six and paise fifty-eight only)

*Imran*

*Imran*  
अमला अधिकारी (सिविल)  
Staff Sincer (C)  
वाशखेड़ा एरिया (PKD Area)

*25/1/24*  
अमला अधिकारी (सिविल)  
Staff Sincer (C)  
वाशखेड़ा, क्षेत्र (PKD Area)



Office of the General Manager  
WESTERN COALFIELD LIMITED  
PATHAKHERA AREA  
(Civil Engineering Department)

D.N<sup>o</sup> :- 895

Date :- 30/02/24

## WORK COMPLETION CERTIFICATE

1. Name of the work :- Construction of Road from Hirapalla towards Bhogaikhapa-  
in Bhogaikhapa village under CSR activity 2023-2024.
2. Name of the Contractor :- Mohd. Imran Siddique
3. W.O/ Aggrement No. :- F-189/51/2023-24 Dated 16.03.2024.
4. Date of commencement :- 12-01-2024
5. Date of completion :- 10-05-2024
6. Actual date of Completion :- 29-02-2024
7. Awarded Value :- Rs= 21,49,956 .58 (Including GST)
8. Value of Work Done :- Rs.= 22,82,500 .88 (Including GST)
- 9- Revised Estimate Value :- Rs= 132544.30 (Including GST) i.e 6.16 % EXCESS
- 10- Penalty if any :- Nil

This is to certified that the Contractor has completed satisfactorly the above said work as per terms conditions of the work order/Agreement &no claim outstanding against this work. This certificate is issued for passing final bill and participating in tender only.

30/02/2024  
S.O.E (Civil)  
PATHAKHERA AREA

# वेस्टर्न कोलफील्ड्स लिमिटेड

(भारत सरकार का उपक्रम एवं मिनीरतना कंपनी)

(कोयल इंडिया लिमिटेड की अनुबंधी कंपनी)

सिविल अभियांत्रिकी विभाग,

महाप्रबंधक कार्यालय, पाथाखेड़ा क्षेत्र,

पाथाखेड़ा, जिला-बेतूल (मप्र), पिन-460449,

दूरभाष: 07146-271883, फैक्स: 07146-270566

CIN - U10100MH1975GOI018626



## WESTERN COALFIELDS LIMITED

(A Government of India Undertaking)

(A Miniratna Company)

(A Subsidiary of Coal India Limited)

Department of Civil Engineering,

Office of the General Manager, Pathakhera Area,

Pathakhera, District – Betul (MP), PIN – 460449

Telephone: 07146-271883, FAX: 07146-270566

Website: <http://westerncoal.in>

संदर्भ संख्या/ Ref. No.: PK/Civil/2020-21/2620/ 656

दिनांक/Date: 01/01/2020

प्रति/To,

Shri.N.K.Singh, Contractor

H.No.224,Kailash Nagar, Shobhapur Colony,

WCL,Pathakhera , Dist.Betul, M.P

PAN NO.AHNPS0167J

Mobile No.7354516555

GST CODE: 23AHNPS0167J2Z2

Email:nksbetul@gmail.com

**विषय/Sub.:** Letter of Acceptance (LOA)/Letter of Award (LOA) for the work of "Construction of road in Hirapalla village (Gram Panchayat Bhogaikhapa) under CSR of Pathakhera Area".

**संदर्भ/Ref.:** NIT No.PK3550-CIV-E-12-2020-21 dated 20/11/2020, S.No.1

महोदय/Sir,

With reference to above, this is to communicate the approval of the Competent Authority to award the subject work to you for a total value of Rs. 12,30,190.33 (Rupees Twelve lakh Thirty thousand One hundred Ninety and paise Thirty Three only) including GST @ 18% as per following details:

1). Details of value of work are as under:

(i)	Value of work (excluding GST)	Rs. 10,42,534.18
(ii)	CGST payable by the contractor @ 9%	Rs. 93,828.08
(iii)	SGST payable by the contractor @ 9%	Rs. 93,828.08
(iv)	Total Contractual amount (Work Order Value)	Rs. 12,30,190.33

2). Above is subject to the following :

- The payment of GST and GST Compensation Cess is responsibility of service provider/Contractor.
- That the payment of GST and GST Compensation Cess by Western Coalfields Limited (WCL) to bidder /contractor (if GST payable by bidder /contractor) would be made only on the latter submitting a Bill/invoice in accordance with the provision of relevant GST Act and the rules made thereunder and after online filing of valid return on GST portal.
- That input tax credit is to be availed by WCL as per rule, if applicable. If WCL fails to claim Input Tax Credit (ITC) on eligible Inputs, input services and Capital Goods or the ITC claimed is disallowed due to failure on the part of supplier/vendor of goods and services in incorporating the tax invoice issued to WCL in its relevant returns under GST, payment of CGST & SGST or IGST, GST ( Compensation to State) Cess shown in tax invoice to the tax authorities, issue of proper tax invoice or any other reason whatsoever, the applicable taxes & cess paid based on such Tax invoice shall be recovered from the current bills or any other dues of the supplier/ vendor along with interest and penalty, if any.

*(Handwritten signature)*

3). Further, this Letter of Acceptance/ Letter of Award is issued with the following terms & conditions:

I) That the amount of Rs.24800/- deposited online by you towards Earnest Money Deposit (EMD) through PRN No.194073582879 dated 02/12/2020 is being adjusted as a part of Performance Security (PS).

II) That you have to deposit further a sum of Rs.36710/- only within 21 days of issuance of letter of Acceptance/ Letter of Award, as per Clause No.4.2 of General Terms & Conditions' of the bid document against balance amount of ' Performance Security (PS) to make the total PS for Rs. 61510/- (i.e. 5% of the total value of work for Rs. 1230190.33), in any of the forms given below:

- Govt. Securities or FDR duly pledged in favour of WESTERN COALFIELDS LIMITED OPERATION ACCOUNT (the owner).
- Demand Draft drawn in favour of WESTERN COALFIELDS LIMITED OPERATION ACCOUNT (the owner) on any Scheduled Bank payable at its Branch at Pathakhera or Bagdona.

III) That you have to deposit further a sum of Rs.454232/- only within 21 days of issuance of Letter of Acceptance/ Letter of Award, as per clause no. 4.8 of 'General Terms & Condition' of the NIT against 'Additional Performance Security' (APS), in any of the forms given above at clause no.3 (II).

IV) That failure to comply with the requirement as above shall constitute sufficient ground for cancellation of the award of work and forfeiture of EMD. In addition to above penal measures, you will not be allowed to participate in the re-tendering process. You shall also be debarred from participating in future tenders in WCL for a minimum period of 12 months.

V) That all Running on Account bills shall be paid at 95% (ninety - five percent) of work value. The balance 5% shall be treated as retention money and will be second part of security deposit.

VI) That in line with the e-Tender Notice, the work should be completed within a period of 90 days from the date of commencement which shall be reckoned from the 10<sup>th</sup> day of issue of this LOA/Letter of Award or within 7 days of handing over of the site, whichever is later.

VII) That Price Variation Clause is NOT APPLICABLE for this work.

VIII) That arrangement of Electricity and Water shall be per the terms of the Bid document/ Tender conditions.

IX) That Employment of Labour is to be made as per the provisions of Bid document/ Tender conditions.

X) That you shall follow the following conditions regarding employment of labour:

- a) You shall have to make payment to the labours as per prevailing Minimum Wages Act.
- b) You shall have to pay your workmen through bank.
- c) You will have to comply with statutory requirements of various Acts including CL (R&A) Act.
- d) That the payment of provident fund for the workmen employed by you for the work as per the laws prevailing under provisions of CMPF/EPF and allied scheme valid from time to time shall be your responsibility.
- e) You shall register yourself on the Contract Labour Payment Management Portal (CLPMP) of CIL within 30 days of issue of work order and will have to enter and update periodically the following details in the portal:



- (i) Work Order details.  
(ii) Details of your workers and payment of wages in respect of each work order each month.

f) That you have to comply with statutory requirements of various Acts including Child Labour (Prohibition & Regulation) Act, 1986 as amended from time to time and all rules regulations and schemes framed thereunder from time to time in addition to other applicable labour laws.

g) You shall have to pay bonus to the workers engaged by you as per the provisions of Payment of Bonus Act, 1965

h) At the end of every wage period, you shall upload in the Contract Labour Payment Management Portal (CLPMP) of CIL i.e. details of employees employed, their attendance, wages, statutory deduction and statutory contributions in the wage period and take a print out of CLPMP portal generated wages, deduction and statutory contribution details and submit the same along with certified bank statement and challans in proof of payment of wages and statutory contribution to the officer, empowered to issue Labour Payment Certificate (LPC) within 3 weeks from the end of wage period.

XI) That regarding deployment of manpower, you have to comply with the Tender Conditions/ Bid Document under clause no. 13 of "Conditions of Contract".

XII) That in accordance to the provision under Clause No. 5.6 of 'Conditions of Contract' of the Bid document, the following item/items of Bill of Quantity (BOQ) in the tender has/have been identified as Abnormally Low Rate (ALR) and Abnormally High Rate (AHR) items as per the rate/rates quoted by you for the work:

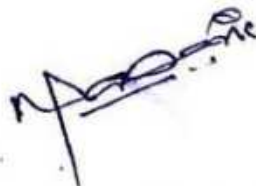
- ALR items : Nil
- AHR items : Nil

( Note: Detailed description and specifications of the respective ALR & AHR items are as per the Bill of Quantity of Price-bid).

XIII) That matters relating to any dispute or differences arising out of this LOA and subsequent contract agreement entered, based on this tender and Letter of Acceptance /Letter of Award shall be subject to the jurisdiction of Betul Court only.

XIV) That you have submit the following for issue of detailed work order:

- a) Balance amount of Performance Security for Rs. 36710/- as mentioned above under Sl. No. 3 (II), within 21 (Twenty- one) days of issuance of this Letter of Acceptance /Letter of Award.
- b) Additional Performance Security for Rs. 454232/- as mentioned above under Sl. No. 3 (III), within 21 ( twenty-one) days of issuance of this Letter of Acceptance/ Letter of Award.
- (c) Site handing over and taken over documents, jointly signed by the Engineer-in -charge and you.
- (d) Labour Licence as per Contract Labour (Regulation & Abolition ) Act 1970, if applicable, duly accepted by Engineer - in - charge.
- e) CMPF/EPF Registration certificate.



- XV) That the Engineer – in – Charge for this work will be **SOE(C), AHQ., PKD., Pathakhera Area**
- XVI) That the Paying Authority for this work will be the Area Finance Manager, WCL Pathakhera Area.
- XVII) That as per Clause No. 24.2 of 'Instruction to Bidders' of Bid document , the notification of award will constitute the formation of the Contract.
- XVIII) That all other terms and conditions, as given in Bid document, shall also be binding on you and shall be treated as the part of the contract.

For further instructions, please contact, **SOE(C), AHQ., PKD., Pathakhera Area**

संलग्न/Enclosure(s): Schedule of quantity

भवदीय/Yours

अमला अधिकारी (सिविल/ Staff Officer (Civil)  
पाथाखेड़ा क्षेत्र/ Pathakhera Area

प्रतिलिपि/Copy to:-

- 1) The Area GM, PKD. Area
- 2) The AFM, PKD. Area : for kind information with reference to BC No WCL/PKD/BC/20-21/ CSR(Rural dev. plan)/01 dated 31/12/2020 for Rs.12,30,191/-
- 3) The APM, PKD. Area ✓
- 4) The SOE(C), AHQ., PKD. ✓
- 5) The PM(Welfare), PKD Area.
- 6) The Asstt. Manager(F), Cash. Sec., PKD
- 7) The RLC (Central), Nirman Sadan, CGO Complex, Room No.306, 1<sup>st</sup> floor, Arera Hills, Behind Govt. Press, Bhopal – 462 016 (MP).

**Photos of RCC Road built in Hirapalla – Bhogaikhapa village under CSR Activities during FY 2020-21**



Unnamed Road, Madhya Pradesh 460440, India

	Decimal	DMS
Latitude	22.16426	22°9'51" N
Longitude	78.148316	78°8'53" E



32°C  
90°F

2021-06-29(Tue) 05:34(pm)



Unnamed Road, Madhya Pradesh 460440, India

	Decimal	DMS
Latitude	22.16426	22°9'51" N
Longitude	78.148316	78°8'53" E



32°C  
90°F

2021-06-29(Tue) 05:34(pm)

Photos of RCC Road built in Hirapalla – Bhogaikhapa village under CSR Activities during FY 2023-24







Mar 09, 2024, 12:28



क्षेत्रीय महाप्रबंधक **Western Coalfields Limited**  
(A Subsidiary of Coal India Limited)  
Welfare / CSR Department

Email-gmsr.wcl@coalindia.in

☎ 0712 -2510558

Ref:WCL/CSR/2024/91

Date: 6th June, 2024

क्षेत्रीय महाप्रबंधक  
बेकोलि, पायाखेरा क्षेत्र

विषय: CSR Action Plan 2024-25

महोदय,

Please refer to the CSR Action Plan 2024-25 submitted by your Area. In this connection, WCL Board in its 364th Meeting held on 27th May, 2024 has approved the CSR Action Plan Activities of 2024-25. The Budget is certified vide BC/WCL/REV/GM(Wel/CSR)/2024-25/CSR Activities/3/01/79 dt. 06.06.24 which includes Budget for these activities. The list of approved CSR Action Plan activities are as given below:

Sl. No	Name of CSR Activity	Sanctioned Budget (In Lakhs Rupees)	Theme
1	Swachhta Action Plan activities	2.00	Item (i) -Sanitation
2	Medical Camps related to osteoporosis, Cancer Detection, etc	6.00	Item (i) -Healthcare
3	Making Water arrangement through Handpump in Vikrampur Gram Panchayat, Bhogaikhapa Gram Panchayat and Chhatarpur Gram Panchayat	6.00	Item (i) - Drinking Water
4	Mitigating water borne diseases by construction of 2 RO plant at various location in Sarni and Ghoradongri for clean drinking water	24.00	Item (i) - Drinking Water
5	Financial assistance to District Collector Betul for implementation of Smart-Class room Solutions in 6 Ashram School of Betul District	13.92	Item (ii) - Education
6	Increase of sanitation and cleanliness by construction of toilets for students(Boys & Girls) of Govt Primary School of Keriya Umri Gram, Chhatarpur Panchayat.	6.50	Item (i) - Sanitation
7	Increase of sanitation and cleanliness by construction of toilets for students(Boys & Girls) of Govt. High School of Bhogaikhapa Gram, Bhogaikhapa Panchyat.	6.50	Item (i) - Sanitation
8	Financial assistance to District administration Betul for purchasing medical and health related equipment	20.00	Item (i) - Healthcare
9	Organizing Village Sports like Kabaddi and Volleyball etc in nearby villages	3.50	Item (vii) - Promote Rural Sports
10	Increasing awareness for cleaning and sanitation by providing of 250 Small household dustbin with sanitation kit to near by School, Panchayat and Anganwadi Kendra	3.00	Item (i) - Sanitation
11	Mitigating water borne diseases by construction of RO plant unit at Ghoradongri Railway Station for clean drinking water	12.00	Item (i) - Drinking Water
12	Financial assistance to Block Medical officer, Ghoradongri for purchasing Health & Sanitation	3.50	Item (i) - Healthcare

	related equipment		
13	Construction of Road from Totidoh to Junction of Bhogaikhapa Gram in Bhogaikhapa Gram Panchayat	40.00	Item (x) - Rural development projects
14	Construction of Stop Dam/Check Dam in Bhogaikhapa Gram Panchayat	10.00	Item (x) - Rural development projects
	<b>Total</b>	<b>156.92</b>	

You are requested to execute the above works strictly as per CIL's CSR Policy and DPE Guidelines and advise the concerned to implement the activities by following the **completion schedule** given below and various other instructions without fail:

**Completion schedule:**

TASK	TIME LINE for Area
Award of work	15 <sup>th</sup> July, 2024
Completion of work	30 <sup>th</sup> November, 2024

**Other instructions:**

- Monthly Progress Report indicating CSR Expenditure and Status as on 25<sup>th</sup> of the month (the period 26<sup>th</sup>-25<sup>th</sup> may be considered) should reach this office strictly by 26<sup>th</sup> of the month through Email to gmsr.wcl@coalindia.in. Incase of NIL expenditure, the same should be sent.
- A Quarterly implementation status report of above activities should be sent to the office of undersigned for appraisal of the same to WCL Board.
- The Name of **approved work** as shown above should not be changed in the monthly progress reports or in any other reports by the Area.
- The Sanctioned Budget for each activity should not be changed by the Area. A separate column for Actual amount after Tender may be indicated in monthly progress and balance budget(Sanctioned Budget minus awarded value) should be surrendered to WCL HQ.
- The officers concerned should ensure that the above approved activities are to be booked under CSR head only.
- Any CSR activity approved by AGM, as per DOP of CIL CSR policy **should** be sent to CSR Dept, WCL HQ for Budget Certification.

In addition to above CSR Action Plan activities, carried forward activity as given below is to be undertaken during FY 2024-25, the budget for which has already been conveyed in the corresponding financial year. The below activity may be completed before 31st July, 2024. It may be noted that, no other payment for carry forward activities should be allowed under CSR.

Sl. No	Name of CSR Activity	Sanctioned Budget (In Lakhs Rupees)	Expenditure in FY 2023-24	Budget Carried Forward to FY 2024-25 (In Lakhs Rupees)
1	Financial Assistance to District Collector Betul for Construction of Road in Gandhigram Village GP Shaktigarh	24.86	0.00	24.86*

\*Advance Paid, Expenditure to be booked on receipt of UC/Tax Invoice

संलग्न: यथोपरि

भवदीय

विभागाध्यक्ष(कल्याण/सी०एस०आर)

**प्रतिलिपि**

- सी.एम.एस., वे०को०लि मुख्यालय, नागपुर- उचित जानकारी हेतु
- विभागाध्यक्ष(सिविल-कल्याण/सी०एस०आर), वे०को०लि मुख्यालय, नागपुर- उचित जानकारी हेतु
- क्षेत्रीय कार्मिक प्रबंधक, वे०को०लि पाथाखेरा क्षेत्र - उचित कार्यवाही हेतु
- अम्ला अधिकारी (सिविल), वे०को०लि पाथाखेरा क्षेत्र - उचित कार्यवाही हेतु
- क्षेत्रीय वित्त प्रबंधक, वे०को०लि पाथाखेरा क्षेत्र - उचित कार्यवाही हेतु

