



File No.: EC/SEIAA/2024-25/3146/2024
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment
Authority(SEIAA), JHARKHAND)



Dated 29/10/2024



To,

Sanjay Kumar
CENTRAL COALFIELDS LIMITED
CENTRAL COALFIELDS LIMITED, DARBHANGA HOUSE, KUTCHERY ROAD, RANCHI,
JHARKHAND, 834029
moef-parivesh.ccl@coalindia.in

Subject: Grant of prior Environmental Clearance (EC) to the proposed Mining Project under the provisions of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application submitted to SEIAA vide proposal number SIA/JH/CMIN/494389/2024 dated 19/09/2024 for grant of prior Environmental Clearance (EC) to the project under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

| | |
|--|----------------------------|
| (i) EC Identification No. | EC24B0102JH5481063N |
| (ii) File No. | EC/SEIAA/2024-25/3146/2024 |
| (iii) Clearance Type | Fresh EC |
| (iv) Category | B1 |
| (v) Project/Activity Included Schedule No. | 1(a) Mining of minerals |
| (vii) Name of Project | Piparwar UG (Phase-I) |
| (ix) Location of Project (District, State) | CHATRA, JHARKHAND |
| (x) Issuing Authority | SEIAA |
| (xii) Applicability of General Conditions | No |

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-2(Part A, B and C)/ EIA & EMP Reports were submitted to the SEIAA for an appraisal by the SEIAA under the provision of EIA notification 2006 and its subsequent amendments.

4. The above-mentioned proposal has been considered by SEIAA in the meeting held on 15/10/2024. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above. Brief description of the project is as under: Production of coal

will help to bridge the gap of demand and supply of coal in India.

5. Details of the minerals to be mined along with production capacity and the brief on the salient features of the project as submitted by the project proponent in Form 1 (Part A and B) in the reports and as presented during SEIAA are annexed to this EC as Annexure (1).
6. The SEIAA, in its meeting held on 15/10/2024, based on information submitted viz: Form 1 (Part A, B and C), EIA/EMP report etc & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and public hearing issues and compliance thereto furnished by the Project Proponent, recommended the proposal for grant of Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of Specific and Standard EC conditions as detailed in the point below.
7. The SEIAA has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the SEIAA hereby accords Environment Clearance for the instant proposal to M/s. Sanjay Kumar under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in Annexure (2)
8. The Ministry reserves the right to stipulate additional conditions, if found necessary.
9. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
10. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
11. Validity of EC is upto 19/09/2024 from which the prior environmental clearance is granted by the regulatory authority.
12. General Instructions:
 1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of SEIAA website where it is displayed.
 2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.
 3. The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.
 4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
 5. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
 6. The Regional Office of this SEIAA shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

7. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

13. This issue with an approval of the Competent Authority.

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Annexure 1

Standard EC Conditions for (Mining of minerals)

1. Statutory Compliance

| S. No | EC Conditions |
|-------|---|
| 1.1 | The Environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project |
| 1.2 | The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project. |
| 1.3 | The project proponent shall obtain clearance from the National Board for Wildlife, if applicable. |
| 1.4 | The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. TThe implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area). |
| 1.5 | The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee. |
| 1.6 | The project proponent shall obtain the necessary permission from the Central Ground Water Authority |
| 1.7 | Solid/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016. |
| 1.8 | Permission of power supply to be taken from the concerned authority for meeting power demand of the project site. |
| 1.9 | The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC. |
| 1.10 | Validity of EC is as per life of the mine mentioned in EC letter or 30 years as per EIA Notification, 2006 and its amendments therein |

Additional EC Conditions

N/A

Details of the Project

| S. No. | Particulars | Details | |
|--------|---|--|------------|
| a. | Details of the Project | Piparwar UG (Phase-I) | |
| b. | Latitude and Longitude of the project site | 23.71112942400003,85.01924674300007 23.73593980200009,85.05428890500008 | |
| c. | Land Requirement (in Ha) of the project or activity | Nature of Land involved | Area in Ha |
| | | Non-Forest Land (A) | 0 |
| | | Forest Land (B) | 37.81 |
| | | Total Land (A+B) | 464.69 |
| d. | Date of Public Consultation | Public consultation for the project was held on | |
| e. | Rehabilitation and Resettlement (R&R) involvement | NO | |
| f. | Project Cost (in lacs) | 39279 | |
| g. | EMP Cost (in lacs) | 1980.49 | |
| h. | Employment Details | | |

Details of Minerals Products & By-products

| Name of the Mineral to be mined | Classification of mineral [Major/Minor] | Production capacity in MTPA | Remarks |
|---------------------------------|---|-----------------------------|--------------------------------------|
| Coal | Major | 0.87 | Underground mining to be carried out |



State Level Environment Impact Assessment Authority, Jharkhand

Nursery Complex, Near Dhurwa Bus Stand, P.O+P.S-Dhurwa, Ranchi, Jharkhand-834004

E-mail: msseiaa.jhk@gmail.com/chr-seiaajhr@gov.in

website: www.jseiaa.org

Letter No : EC/SEIAA/2024-25/3146/2024/

Ranchi, Date :

To: Shri Sanjay Kumar,
Office of the Project Officer,
Project Officer, Piparwar UG (Phase - I),
Piparwar Area,
M/s Central Coalfields Limited,
P.O. : Bachra, District : Chatra, Jharkhand : 829201.

Sub: Environmental Clearance for the project “Piparwar UG (Phase I) (0.87 MTPA) Piparwar area of M/s Central Coalfields Ltd. at Village : Benti, Mangardaha, Kichto, Thena & Bijain, Tehsil : Tandwa, District : Chatra, Jharkhand (464.69 Ha)”, (Proposal No. SIA/JH/CMIN/ 494389/2024) - regarding.

Ref: Your application no.- PO (Ashok OCP) Environment/461, dated – 19.09.2024.

Sir,

It is in reference to the project “Piparwar UG (Phase I) (0.87 MTPA) Piparwar area of M/s Central Coalfields Ltd. at Village : Benti, Mangardaha, Kichto, Thena & Bijain, Tehsil : Tandwa, District : Chatra, Jharkhand (464.69 Ha)” submitted by you for seeking prior Environmental Clearances (EC).

This is a greenfield underground coal mine project which has been taken for appraisal on 30.09.2024.

Application for: EC for underground Coal Mining: 0.87 MTPA in an area of 464.69 Ha

Project Sector: 1(a) Mining of Minerals (Coal) as per EIA Notification, 2006, Category: B1. Application for Environmental Clearance (EC) after ToR.

The State Expert Appraisal Committee, Jharkhand deliberated the project during its 113th meeting held on 30.05.2024 to 03.06.2024 and SEIAA, Jharkhand has approved the **extension of validity of ToR** in 113th meeting held on 07th & 08th June, 2024. TOR for the project was issued by SEIAA, Jharkhand vide letter no. EC/SEIAA/2024-25/3146/2024/110, dated 14.06.2024. The final EIA / EMP submitted by PP to SEAC on 19.09.2024.

Piparwar UG (Phase-I) is a greenfield underground coal mining project which has been planned to work within and beneath the leasehold of Piparwar OCP. Project is located in NK Coalfields under administration of Piparwar area of Central Coalfields Limited. This project falls within

revenue villages Benti, Mangardaha, Kichito, Thena & Bijain of Tandwa CD Block, Chatra Dist. of Jharkhand.

An application in Form-I was submitted to MoEF&CC as per EIA Notification, 2006 on 12.03.2020 for obtaining ToR. EAC had appraised the project on 17th April 2020 and MoEF&CC recommended terms of reference (ToR) for Piparwar UG (Phase-I) 0.87 MTPA & 464.69 HA. on 08.06.2020 vide letter no: IA-J-11015/10/2020-IA-II (M).

The ToR of Piparwar UG (Phase-I) was issued vide no: IA-J-11015/10/2010-IA-II(M) Dated: 08.06.2020. As per the ToR letter, validity of ToR was for 3 years. Further, the ToR validity of proposal was extended upto 31.03.24 in line with MoEF&CC S.O. 221 (E) Dated: 18.01.2021. MoEF&CC S.O. 751(E) dated 17.02.2020 states that the validity of ToR for new project will be valid upto 4 years. After revalidation of the ToR by SEIAA, the validity of ToR is upto March 31, 2025.

PROJECT AND LOCATION DETAILS:

| Sl | Parameter | Details |
|----|----------------------|---|
| 1 | Project Name | : Piparwar UG (Phase-I) |
| 2 | Project Proponent | : Shri Sanjay Kumar, Project Officer, Piparwar UG (Phase-I). |
| 3 | Address | : Piparwar Area, Central Coalfields Limited, PO-Bachra, Dist-Chatra, Jharkhand, Pin-829201 Phone Number – 8987784403 |
| 4 | Area | : Ha: 464.69 ha Acres: 1,148.25 Acres |
| 5 | Type of Land | : Forest Land: 165.95 Ha & Non-Forest Land: 298.74 Ha |
| 6 | Project Cost | : 39031 Lakh |
| 9 | New or Expansion | : New |
| 10 | Mineable Reserves | : Coal: 8.83 Million Tonnes OB: NA as it is an UG project |
| 11 | Mine Life | : 14 years |
| 12 | Man power | : 119 |
| 13 | Water Requirement | : 480 KL/Day |
| 14 | Water Source | : Mine seepage & rain water stored in mine sump |
| 15 | DG Set / power | : The power shall be supplied to the proposed main mine substation from existing 33 kV overhead transmission line supplying power to opencast project |
| 16 | Crusher | : No |
| 17 | Nearest Water Body | : Damodar River (0.1 KM) |
| 18 | Nearest Habitation | : Khalari (7 KM) |
| 19 | Nearest Rail Station | : Ray (5 KM) |
| 20 | Nearest Air Port | : Ranchi (70 KM) |
| 21 | Nearest Forest | : Within Project boundary |
| 22 | Road & Highways | : State Highway No 7 |

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CO-ORDINATES:

| | | | | |
|---|-----------|---|----------------------|---------------------|
| 1 | Latitude | : | From 23°42'39.81'' N | To 23°44' 09.21'' N |
| 2 | Longitude | : | From 85°01'09.02'' E | To 85°03'15.47'' E. |

Total forest land falling within the project boundary of Piparwar UG (Phase I) is 165.95 Ha. involving total of 5 proposals. Different forest proposals in Piparwar UG (Phase I) are mentioned below:

| SN | Forest Proposal | Area as per FC Obtained (Ha) | Area involved in Piparwar UGP (Ha) | MoEF&CC file no with date of Stage-II FC | Present Status |
|----|----------------------------------|------------------------------|------------------------------------|--|--|
| 1 | Piparwar Coal Project of CCL | 13.11 | 2.82 | 8-172/89-FC dated 02.12.1992 | <ul style="list-style-type: none"> Application for change in land use has been submitted on 19.07.2023 vide application no FP/JH/REDIV/437226/2023 Currently proposal is pending at DFO for Scrutiny and Recommendation. |
| 2 | Piparwar Opencast Project of CCL | 43.30 | 27.47 | 8-172/89-FC dated 03.01.1995 | <ul style="list-style-type: none"> Renewal application submitted on 22.07.2019 vide application number FP/JH/MIN/41321/2019 Proposal is presently pending with CF. |
| 3 | Piparwar Project of CCL | 28.22 | 12.38 | 8-48/98-FC dated 21.09.2001 | <ul style="list-style-type: none"> Application for change in land use has been submitted on 20.07.2023 vide application number FP/JH/REDIV/437130/2023 Currently proposal is pending with DFO for reply of EDS by State Secretary. |
| 4 | Piparwar Opencast Mining | 101.87 | 85.47 | 8-54/2003-FC dated 13.01.2004 | <ul style="list-style-type: none"> Application for change in land use has been submitted on 18.07.2023 vide application number FP/JH/REDIV/437021/2023 Currently proposal is pending with DFO for reply of EDS by State Secretary. |





| SN | Forest Proposal | Area as per FC Obtained (Ha) | Area involved in Piparwar UGP (Ha) | MoEF&CC file no with date of Stage-II FC | Present Status |
|------------------------------|---|------------------------------|------------------------------------|--|--|
| Total Area (Notified Forest) | | 186.50 | 128.14 | | |
| 5 | Piparwar Underground (Phase I) - Stage-I FC of GM JJ land | - | 37.81 | - | <ul style="list-style-type: none"> Stage-I FC Application submitted vide FP/JH/MIN/44975/2020 Dt. 09.03.2020. CCL requested ED Nodal, GoJ on 15.04.2024 for exemption of 37.81 GMJJ, broken prior to 12.12.1996 under New FC Act, 2023 as the land is settled well before 12.12.1996 to tenants by state government and used for non-forest purpose DFO Chatra (S) requested AC Chatra for verification of documents submitted By UA for purpose of exemption under New FC Act, 2023 on 08.05.2024 and again on 03.07.2024. |
| Grand Total | | | 165.95 | | |

Working Details:

| | | | |
|---|------------------------------|---|--|
| 1 | Mining Method | : | Bord & Pillar with Caving. Development & depillaring will be done with Continuous Miner (CM) |
| 2 | UG Mining Area | : | 403.56 Ha |
| 3 | No of Seams considered | : | Lower Bachra (Bottom Section) |
| 4 | Average Grade | : | G-5 |
| 5 | Life | : | 14 Years |
| 6 | Coal Evacuation | : | Through Belt Conveyor |
| 7 | Man & Material Supply System | : | Free Steered Vehicles & multi utility Vehicles |
| 8 | Roof Support | : | With Resin Bolts. Mobile Breaker Line support |

| | | | |
|----|--------------|---|---|
| 9 | Coal Linkage | : | It is proposed to use tipping trucks to transport coal from Piparwar UGP to Piparwar siding, which is 900 meters away from the proposed project |
| 10 | Depth | : | 104m to 194m below surface |

Proposed Calendar Program:

| Year | Coal Production in MTY |
|--------------|------------------------|
| 1 | Construction Period |
| 2 | Construction Period |
| 3 | 0.36 |
| 4 | 0.75 |
| 5 | 0.87 |
| 6 | 0.87 |
| 7 | 0.87 |
| 8 | 0.87 |
| 9 | 0.87 |
| 10 | 0.87 |
| 11 | 0.87 |
| 12 | 0.75 |
| 13 | 0.51 |
| 14 | 0.37 |
| Total | 8.83 |

Land Details :

| VILLAGE - BENTI | | | | | | | | | | | |
|-----------------|-----------|----------|-----------|-----|-----------|----------|-----------|-----|-----------|----------|-----------|
| S.N | Khata No. | Plot No. | Area (Ha) | S.N | Khata No. | Plot No. | Area (Ha) | S.N | Khata No. | Plot No. | Area (Ha) |
| 1 | 98 | 2P | 2.85 | 37 | 60 | 598 | 0.43 | 73 | 78 | 636 | 0.46 |
| 2 | 98 | 3 | 0.03 | 38 | 60 | 599 | 0.53 | 74 | 72 | 637 | 0.64 |
| 3 | 82 | 4 | 0.68 | 39 | 81 | 600 | 0.06 | 75 | 62 | 638 | 0.66 |
| 4 | 90 | 5 | 0.54 | 40 | 81 | 601 | 0.36 | 76 | 75 | 639 | 0.34 |
| 5 | 98 | 6 | 0.09 | 41 | 98 | 602 | 0.05 | 77 | 98 | 640 | 1.94 |
| 6 | 18 | 7 | 0.68 | 42 | 60 | 603 | 0.02 | 78 | 75 | 641 | 0.56 |
| 7 | 98 | 8 | 0.19 | 43 | 60 | 604 | 1.3 | 79 | 75 | 642 | 0.28 |

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| 8 | 98 | 9 | 15.95 | 44 | 60 | 605 | 0.37 | 80 | 61 | 643 | 0.42 |
| 9 | 82 | 10 | 0.83 | 45 | 98 | 606 | 0.51 | 81 | 98 | 644 | 12.85 |
| 10 | 90 | 11 | 0.63 | 46 | 41 | 607P | 0.07 | 82 | 61 | 645 | 0.28 |
| 11 | 83 | 12 | 0.48 | 47 | 32 | 610P | 0.99 | 83 | 17 | 646 | 0.47 |
| 12 | 98 | 13 | 0.06 | 48 | 69 | 611 | 0.47 | 84 | 98 | 647 | 13.65 |
| 13 | 16 | 14 | 1.54 | 49 | 69 | 612 | 0.17 | 85 | 42 | 648 | 0.28 |
| 14 | 28 | 15 | 0.7 | 50 | 13 | 613 | 0.57 | 86 | 61 | 649 | 0.77 |
| 15 | 98 | 16P | 12.74 | 51 | 69 | 614 | 0.05 | 87 | 61 | 650 | 0.57 |
| 16 | 16 | 40 | 1.37 | 52 | 69 | 615 | 0.3 | 88 | 90 | 651 | 0.72 |
| 17 | 12 | 41 | 0.42 | 53 | 63 | 616 | 0.54 | 89 | 98 | 652 | 0.11 |
| 18 | 12 | 42P | 0.1 | 54 | 63 | 617 | 0.02 | 90 | 61 | 653 | 0.43 |
| 19 | 41 | 51P | 0.16 | 55 | 98 | 618 | 0.49 | 91 | 42 | 654 | 0.98 |
| 20 | 98 | 52P | 19.62 | 56 | 41 | 619 | 0.25 | 92 | 98 | 655 | 0.21 |
| 21 | 57 | 580P | 0.04 | 57 | 98 | 620 | 0.15 | 93 | 61 | 656 | 0.76 |
| 22 | 98 | 581 | 0.02 | 58 | 63 | 621 | 0.14 | 94 | 98 | 657 | 0.04 |
| 23 | 57 | 582 | 0.13 | 59 | 23 | 622 | 0.38 | 95 | 42 | 658 | 0.56 |
| 24 | 98 | 583 | 0.25 | 60 | 60 | 623 | 0.2 | 96 | 72 | 659 | 0.49 |
| 25 | 14 | 586P | 0.31 | 61 | 98 | 624 | 1.58 | 97 | 98 | 660 | 3.28 |
| 26 | 49 | 587 | 0.13 | 62 | 61 | 625 | 0.27 | 98 | 98 | 661 | 4.86 |
| 27 | 98 | 588 | 0.02 | 63 | 42 | 626 | 0.17 | 99 | 75 | 662 | 1.03 |
| 28 | 17 | 589 | 0.81 | 64 | 42 | 627 | 0.18 | 100 | 75 | 663 | 0.08 |
| 29 | 63 | 590 | 0.09 | 65 | 90 | 628 | 0.44 | 101 | 79 | 664 | 0.16 |
| 30 | 98 | 591 | 0.02 | 66 | 98 | 629 | 0.02 | 102 | 90 | 665 | 0.26 |
| 31 | 98 | 592 | 0.01 | 67 | 41 | 630 | 0.78 | 103 | 17 | 666 | 0.47 |
| 32 | 98 | 593 | 0.03 | 68 | 90 | 631 | 0.53 | 104 | 90 | 667 | 0.39 |
| 33 | 54 | 594 | 0.03 | 69 | 14 | 632 | 0.15 | 105 | 98 | 668 | 0.03 |

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|-----|----|-----|------|-----|----|-----|------|-----|----|-----|------|
| 34 | 17 | 595 | 0.56 | 70 | 14 | 633 | 0.16 | 106 | 61 | 669 | 0.25 |
| 35 | 23 | 596 | 0.39 | 71 | 25 | 634 | 0.41 | 107 | 61 | 670 | 0.01 |
| 36 | 16 | 597 | 0.54 | 72 | 17 | 635 | 0.18 | 108 | 61 | 671 | 0.01 |
| 109 | 90 | 672 | 0.1 | 149 | 75 | 712 | 1.44 | 189 | 42 | 753 | 0.42 |
| 110 | 55 | 673 | 0.14 | 150 | 98 | 713 | 0.01 | 190 | 43 | 754 | 0.9 |
| 111 | 61 | 674 | 0.36 | 151 | 75 | 714 | 0.01 | 191 | 78 | 755 | 0.19 |
| 112 | 98 | 675 | 0.02 | 152 | 42 | 715 | 0.63 | 192 | 75 | 756 | 0.67 |
| 113 | 42 | 676 | 0.17 | 153 | 42 | 716 | 0.36 | 193 | 42 | 757 | 0.55 |
| 114 | 42 | 677 | 0.48 | 154 | 42 | 717 | 0.01 | 194 | 84 | 758 | 0.29 |
| 115 | 90 | 678 | 0.13 | 155 | 75 | 718 | 1.29 | 195 | 72 | 759 | 0.34 |
| 116 | 61 | 679 | 0.2 | 156 | 75 | 719 | 0.04 | 196 | 78 | 760 | 0.28 |
| 117 | 55 | 680 | 0.02 | 157 | 89 | 720 | 0.02 | 197 | 98 | 761 | 1.3 |
| 118 | 78 | 681 | 0.78 | 158 | 55 | 721 | 0.01 | 198 | 25 | 762 | 0.76 |
| 119 | 98 | 682 | 0.03 | 159 | 55 | 722 | 0.38 | 199 | 80 | 763 | 0.32 |
| 120 | 90 | 683 | 0.61 | 160 | 99 | 723 | 0.08 | 200 | 78 | 764 | 0.12 |
| 121 | 90 | 684 | 0.01 | 161 | 89 | 724 | 0.37 | 201 | 51 | 765 | 0.12 |
| 122 | 61 | 685 | 0.02 | 162 | 21 | 725 | 0.75 | 202 | 98 | 766 | 1.56 |
| 123 | 99 | 686 | 0.03 | 163 | 21 | 726 | 0.23 | 203 | 79 | 768 | 0.81 |
| 124 | 61 | 687 | 0.39 | 164 | 17 | 727 | 0.02 | 204 | 21 | 769 | 0.75 |
| 125 | 98 | 688 | 0.02 | 165 | 17 | 728 | 0.18 | 205 | 42 | 770 | 0.77 |
| 126 | 17 | 689 | 0.16 | 166 | 17 | 729 | 0.66 | 206 | 25 | 771 | 0.47 |
| 127 | 17 | 690 | 0.02 | 167 | 98 | 730 | 0.08 | 207 | 51 | 772 | 0.37 |
| 128 | 17 | 691 | 0.08 | 168 | 78 | 731 | 1.25 | 208 | 50 | 773 | 0.75 |
| 129 | 98 | 692 | 0.23 | 169 | 80 | 732 | 0.36 | 209 | 43 | 774 | 0.55 |
| 130 | 99 | 693 | 0.19 | 170 | 55 | 733 | 0.21 | 210 | 25 | 775 | 0.56 |
| 131 | 99 | 694 | 0.39 | 171 | 98 | 734 | 0 | 211 | 98 | 776 | 0.13 |

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|-----|----|------|------|-----|----|-----|------|-----|----|------|------|
| 132 | 89 | 695 | 0.11 | 172 | 98 | 735 | 0.08 | 212 | 43 | 777 | 0.63 |
| 133 | 49 | 696 | 0.51 | 173 | 89 | 736 | 0.54 | 213 | 98 | 778 | 0 |
| 134 | 54 | 697 | 0.5 | 174 | 75 | 737 | 0.24 | 214 | 98 | 779 | 0.1 |
| 135 | 92 | 698 | 0.47 | 175 | 98 | 738 | 2.53 | 215 | 98 | 780 | 0.02 |
| 136 | 98 | 699 | 0.06 | 176 | 75 | 739 | 0.37 | 216 | 98 | 781 | 0.02 |
| 137 | 69 | 700 | 0.3 | 177 | 98 | 740 | 2.55 | 217 | 25 | 782 | 0.84 |
| 138 | 98 | 701 | 0.59 | 178 | 21 | 741 | 0.5 | 218 | 98 | 783 | 0.05 |
| 139 | 75 | 702 | 1.02 | 179 | 89 | 742 | 0.11 | 219 | 98 | 784 | 0.01 |
| 140 | 98 | 703 | 1.36 | 180 | 75 | 743 | 0.08 | 220 | 43 | 785 | 0.74 |
| 141 | 89 | 704 | 0.07 | 181 | 99 | 744 | 0.08 | 221 | 98 | 786 | 0.02 |
| 142 | 75 | 705 | 0.27 | 182 | 21 | 745 | 0.66 | 222 | 69 | 787 | 0.21 |
| 143 | 84 | 706 | 0.06 | 183 | 99 | 746 | 0.17 | 223 | 98 | 788 | 0.25 |
| 144 | 98 | 707 | 0.76 | 184 | 78 | 747 | 0.27 | 224 | 80 | 789 | 0.43 |
| 145 | 72 | 708 | 0.1 | 185 | 89 | 748 | 0.16 | 225 | 98 | 790 | 2.68 |
| 146 | 89 | 709 | 0.12 | 186 | 75 | 749 | 0.12 | 226 | 80 | 791 | 0.91 |
| 147 | 98 | 710 | 0.01 | 187 | 75 | 750 | 0.4 | 227 | 2 | 792 | 0.61 |
| 148 | 60 | 711 | 0.42 | 188 | 78 | 752 | 0.34 | 228 | 2 | 794P | 0.22 |
| 229 | 2 | 795P | 0.09 | 269 | 21 | 836 | 0.21 | - | - | - | - |
| 230 | 2 | 796 | 0.32 | 270 | 98 | 837 | 0.02 | - | - | - | - |
| 231 | 2 | 797 | 0.22 | 271 | 75 | 838 | 0.06 | - | - | - | - |
| 232 | 2 | 798 | 0.5 | 272 | 75 | 839 | 0.15 | - | - | - | - |
| 233 | 98 | 799 | 0.01 | 273 | 42 | 840 | 0.04 | - | - | - | - |
| 234 | 98 | 800 | 0.04 | 274 | 99 | 841 | 0.13 | - | - | - | - |
| 235 | 72 | 801 | 0.17 | 275 | 84 | 842 | 0.12 | - | - | - | - |
| 236 | 79 | 802 | 0.42 | 276 | 78 | 843 | 0.16 | - | - | - | - |
| 237 | 94 | 803 | 0.15 | 277 | 80 | 844 | 0.66 | - | - | - | - |

| | | | | | | | | | | | |
|-----|----|-----|------|-----|----|------|-------|---|---|---|---|
| 238 | 81 | 804 | 0.09 | 278 | 75 | 845 | 0.19 | - | - | - | - |
| 239 | 21 | 805 | 0.17 | 279 | 50 | 846 | 0.25 | - | - | - | - |
| 240 | 2 | 806 | 0.59 | 280 | 50 | 847 | 0.2 | - | - | - | - |
| 241 | 51 | 807 | 0.04 | 281 | 50 | 848 | 0.17 | - | - | - | - |
| 242 | 98 | 808 | 0.09 | 282 | 50 | 849 | 0.17 | - | - | - | - |
| 243 | 72 | 809 | 0.17 | 283 | 98 | 850 | 0 | - | - | - | - |
| 244 | 98 | 810 | 0.04 | 284 | 75 | 851 | 0.16 | - | - | - | - |
| 245 | 72 | 811 | 1.14 | 285 | 98 | 852 | 0.02 | - | - | - | - |
| 246 | 98 | 812 | 0.02 | 286 | 98 | 853 | 0.11 | - | - | - | - |
| 247 | 98 | 813 | 0.09 | 287 | 98 | 854 | 0.01 | - | - | - | - |
| 248 | 98 | 814 | 0.16 | 288 | 75 | 855 | 0.1 | - | - | - | - |
| 249 | 84 | 815 | 0.28 | 289 | 75 | 856 | 0.02 | - | - | - | - |
| 250 | 78 | 816 | 0.18 | 290 | 50 | 857 | 0.18 | - | - | - | - |
| 251 | 99 | 817 | 0.04 | 291 | 75 | 858 | 0.56 | - | - | - | - |
| 252 | 42 | 818 | 0.42 | 292 | 78 | 859 | 0.21 | - | - | - | - |
| 253 | 98 | 819 | 0.11 | 293 | 25 | 860P | 0.23 | - | - | - | - |
| 254 | 98 | 820 | 0.31 | 294 | 75 | 865 | 0.47 | - | - | - | - |
| 255 | 75 | 821 | 0.04 | 295 | 78 | 867 | 0.3 | - | - | - | - |
| 256 | 79 | 822 | 0.1 | 296 | 60 | 868 | 0.83 | - | - | - | - |
| 257 | 98 | 823 | 0 | 297 | 60 | 869 | 0.04 | - | - | - | - |
| 258 | 75 | 824 | 0.08 | 298 | 89 | 870P | 0.06 | - | - | - | - |
| 259 | 43 | 825 | 0.01 | 299 | 89 | 871 | 0.1 | - | - | - | - |
| 260 | 98 | 827 | 0.01 | 300 | 23 | 872 | 0.3 | - | - | - | - |
| 261 | 98 | 828 | 0.01 | 301 | 23 | 876P | 0.09 | - | - | - | - |
| 262 | 98 | 829 | 0.01 | 302 | 99 | 877 | 0.83 | - | - | - | - |
| 263 | 98 | 830 | 0.01 | 303 | 98 | 887P | 10.98 | - | - | - | - |

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|-----|----|-----|------|---------------------|---|-----|---|---|---|---|---|
| 264 | 79 | 831 | 0.17 | Total Area in Benti | | 200 | - | - | - | - | - |
| 265 | 79 | 832 | 0.06 | - | - | - | - | - | - | - | - |
| 266 | 79 | 833 | 0.06 | - | - | - | - | - | - | - | - |
| 267 | 79 | 834 | 0.04 | - | - | - | - | - | - | - | - |
| 268 | 79 | 835 | 0.17 | - | - | - | - | - | - | - | - |

VILLAGE- MANGARDAHA

| S.N | Khata no. | Plot No. | Area (Ha) | S.N | Khata no. | Plot No. | Area (Ha) | S.N | Khata no. | Plot No. | Area (Ha) |
|-----|-----------|----------|-----------|-----|-----------|----------|-----------|-----|-----------|----------|-----------|
| 1 | 22 | 4 | 6.68 | 38 | 7 | 105 | 0.06 | 75 | 11 | 144 | 0.67 |
| 2 | 18 | 5 | 0.2 | 39 | 7 | 106 | 0.22 | 76 | 3 | 145 | 0.22 |
| 3 | 19 | 7 | 0.68 | 40 | 1 | 107 | 0.9 | 77 | 15 | 146 | 0.19 |
| 4 | 9 | 8 | 1.04 | 41 | 22 | 108 | 0.06 | 78 | 22 | 147 | 5.16 |
| 5 | 18 | 9 | 0.34 | 42 | 9 | 110 | 0.39 | 79 | 8 | 148 | 0.04 |
| 6 | 9 | 10 | 0.59 | 43 | 1 | 111 | 1.03 | 80 | 22 | 149 | 0.48 |
| 7 | 22 | 12 | 2 | 44 | 22 | 112 | 0.26 | 81 | 18 | 150 | 0.08 |
| 8 | 22 | 13 | 20.51 | 45 | 1 | 113 | 0.21 | 82 | 8 | 151 | 0.01 |
| 9 | 22 | 14 | 20.79 | 46 | 13 | 114 | 0.53 | 83 | 13 | 152 | 0.46 |
| 10 | 4 | 56 | 0.81 | 47 | 6 | 115 | 0.64 | 84 | 9 | 153 | 0.3 |
| 11 | 22 | 57 | 8.4 | 48 | 7 | 116 | 0.08 | 85 | 13 | 154 | 0.09 |
| 12 | 11 | 58 | 0.23 | 49 | 22 | 117 | 0.3 | 86 | 13 | 155 | 0.23 |
| 13 | 22 | 59 | 0.02 | 50 | 9 | 118 | 0.38 | 87 | 13 | 156 | 0.01 |
| 14 | 22 | 60 | 0.14 | 51 | 11 | 119 | 0.54 | 88 | 23 | 157 | 0.04 |
| 15 | 7 | 61 | 1.37 | 52 | 22 | 120 | 0.05 | 89 | 22 | 158 | 0.67 |
| 16 | 19 | 62 | 0.3 | 53 | 21 | 121 | 0.02 | 90 | 22 | 159 | 0.04 |
| 17 | 12 | 63 | 0.1 | 54 | 19 | 122 | 0.16 | 91 | 21 | 160 | 0.15 |

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|-----|----|-----|------|-----|----|-----|------|-----|----|-----|------|
| 18 | 22 | 64 | 0.3 | 55 | 22 | 123 | 0.06 | 92 | 1 | 161 | 0.16 |
| 19 | 11 | 65 | 0.06 | 56 | 4 | 124 | 0.06 | 93 | 11 | 162 | 0.15 |
| 20 | 22 | 66 | 0.3 | 57 | 4 | 125 | 0.01 | 94 | 11 | 163 | 0.01 |
| 21 | 3 | 67 | 0.23 | 58 | 11 | 126 | 0.01 | 95 | 9 | 164 | 0.02 |
| 22 | 22 | 68 | 1.12 | 59 | 14 | 127 | 0.1 | 96 | 9 | 165 | 0.38 |
| 23 | 22 | 76 | 0.44 | 60 | 4 | 128 | 0.31 | 97 | 19 | 166 | 0.02 |
| 24 | 7 | 77 | 0.09 | 61 | 6 | 129 | 0.06 | 98 | 14 | 167 | 0.07 |
| 25 | 7 | 78 | 0.09 | 62 | 22 | 130 | 0.06 | 99 | 19 | 168 | 0.19 |
| 26 | 9 | 79 | 0.1 | 63 | 4 | 131 | 0.08 | 100 | 4 | 169 | 0.16 |
| 27 | 11 | 80 | 0.22 | 64 | 5 | 132 | 0.2 | 101 | 9 | 170 | 0.23 |
| 28 | 5 | 81 | 0.04 | 65 | 5 | 133 | 0.03 | 102 | 8 | 171 | 0.2 |
| 29 | 3 | 94 | 0.03 | 66 | 1 | 134 | 0.48 | 103 | 15 | 172 | 0.1 |
| 30 | 3 | 95 | 0.06 | 67 | 1 | 135 | 0.13 | 104 | 19 | 173 | 0.42 |
| 31 | 3 | 96 | 0.07 | 68 | 22 | 136 | 0.37 | 105 | 23 | 174 | 0.8 |
| 32 | 9 | 97 | 0.76 | 69 | 14 | 138 | 0.06 | 106 | 4 | 175 | 0.14 |
| 33 | 7 | 99 | 0.15 | 70 | 9 | 139 | 0.65 | 107 | 22 | 176 | 5.16 |
| 34 | 9 | 100 | 0.09 | 71 | 8 | 140 | 0.02 | 108 | 23 | 177 | 0.06 |
| 35 | 3 | 101 | 0.02 | 72 | 8 | 141 | 0.24 | 109 | 5 | 178 | 2.46 |
| 36 | 3 | 102 | 0.34 | 73 | 22 | 142 | 0.53 | 110 | 5 | 179 | 0.03 |
| 37 | 9 | 103 | 0.26 | 74 | 1 | 143 | 1.24 | 111 | 4 | 180 | 0.04 |
| 112 | 11 | 181 | 0.02 | 152 | 18 | 222 | 0.01 | 192 | 6 | 262 | 0.62 |
| 113 | 7 | 182 | 0.02 | 153 | 16 | 223 | 0.11 | 193 | 22 | 263 | 0.7 |
| 114 | 23 | 183 | 0.08 | 154 | 16 | 224 | 0.01 | 194 | 10 | 264 | 0.08 |
| 115 | 22 | 184 | 0.02 | 155 | 8 | 225 | 0.17 | 195 | 15 | 265 | 0.01 |
| 116 | 12 | 185 | 0.01 | 156 | 8 | 226 | 0.03 | 196 | 8 | 266 | 0.08 |
| 117 | 12 | 186 | 0.46 | 157 | 10 | 227 | 0.02 | 197 | 22 | 267 | 0.02 |

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|-----|----|-----|------|-----|----|-----|------|-----|----|------|------|
| 118 | 5 | 187 | 0.13 | 158 | 10 | 228 | 0.17 | 198 | 8 | 268 | 0.07 |
| 119 | 7 | 188 | 0.23 | 159 | 6 | 229 | 0.01 | 199 | 1 | 269 | 0.44 |
| 120 | 7 | 189 | 0.02 | 160 | 6 | 230 | 0.69 | 200 | 22 | 270 | 0.13 |
| 121 | 14 | 190 | 0.02 | 161 | 6 | 231 | 0.02 | 201 | 22 | 271 | 0.85 |
| 122 | 14 | 191 | 0.01 | 162 | 23 | 232 | 0.04 | 202 | 8 | 272 | 0.39 |
| 123 | 4 | 192 | 0.07 | 163 | 3 | 233 | 0.15 | 203 | 22 | 273 | 0.44 |
| 124 | 4 | 193 | 0 | 164 | 22 | 234 | 0.01 | 204 | 10 | 274 | 0.85 |
| 125 | 23 | 194 | 0 | 165 | 20 | 235 | 0.15 | 205 | 22 | 275P | 12.8 |
| 126 | 12 | 195 | 0.01 | 166 | 2 | 236 | 0.01 | 206 | 10 | 276 | 0.46 |
| 127 | 17 | 196 | 0.13 | 167 | 2 | 237 | 0.13 | 207 | 23 | 277 | 0.53 |
| 128 | 17 | 197 | 0.01 | 168 | 1 | 238 | 0.1 | 208 | 8 | 278 | 0.55 |
| 129 | 5 | 198 | 0.03 | 169 | 18 | 239 | 0.11 | 209 | 19 | 279 | 1.27 |
| 130 | 5 | 199 | 0.55 | 170 | 20 | 240 | 0.17 | 210 | 22 | 280 | 0.06 |
| 131 | 1 | 200 | 0.32 | 171 | 2 | 241 | 0.19 | 211 | 15 | 282 | 1.25 |
| 132 | 5 | 201 | 0.32 | 172 | 12 | 242 | 0.25 | 212 | 22 | 283 | 0.04 |
| 133 | 23 | 202 | 0.11 | 173 | 4 | 243 | 0.02 | 213 | 14 | 287 | 0.16 |
| 134 | 22 | 203 | 0.54 | 174 | 4 | 244 | 0.12 | 214 | 8 | 288 | 0.14 |
| 135 | 12 | 204 | 0.36 | 175 | 1 | 245 | 0.13 | 215 | 22 | 289 | 0.01 |
| 136 | 12 | 205 | 0.02 | 176 | 22 | 246 | 0.02 | 216 | 14 | 318 | 0.11 |
| 137 | 22 | 206 | 0.55 | 177 | 3 | 247 | 0.02 | 217 | 3 | 321 | 0.35 |
| 138 | 22 | 207 | 2.12 | 178 | 3 | 248 | 0.03 | 218 | 1 | 322 | 0.91 |
| 139 | 22 | 208 | 0.28 | 179 | 1 | 249 | 0.4 | 219 | 22 | 323 | 0.33 |
| 140 | 10 | 209 | 0.03 | 180 | 22 | 250 | 0.04 | 220 | 4 | 324 | 0.13 |
| 141 | 10 | 210 | 0.26 | 181 | 20 | 251 | 0.01 | 221 | 4 | 325 | 0.15 |
| 142 | 10 | 211 | 0.1 | 182 | 18 | 252 | 0.12 | 222 | 1 | 326 | 0.15 |
| 143 | 8 | 212 | 0.38 | 183 | 18 | 253 | 0.01 | 223 | 3 | 327 | 0.19 |

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|-----|----|-----|------|---------------------------------|----|------|---------------|-----|----|-----|------|
| 144 | 23 | 213 | 0.11 | 184 | 19 | 254 | 0.19 | 224 | 4 | 328 | 0.18 |
| 145 | 1 | 214 | 0.8 | 185 | 16 | 255 | 0.02 | 225 | 3 | 329 | 0.3 |
| 146 | 3 | 215 | 0.01 | 186 | 16 | 256 | 0.15 | 226 | 22 | 330 | 0.22 |
| 147 | 10 | 216 | 0.11 | 187 | 8 | 257 | 0.28 | 227 | 1 | 331 | 0.34 |
| 148 | 3 | 217 | 0.19 | 188 | 10 | 258 | 0.28 | 228 | 5 | 332 | 0.2 |
| 149 | 6 | 219 | 0.54 | 189 | 15 | 259 | 0.01 | 229 | 5 | 333 | 0.34 |
| 150 | 23 | 220 | 0.24 | 190 | 15 | 260 | 0.38 | 230 | 10 | 334 | 0.16 |
| 151 | 18 | 221 | 0.13 | 191 | 9 | 261 | 0.21 | 231 | 1 | 335 | 1.1 |
| 232 | 13 | 336 | 0.2 | 271 | 9 | 342P | 1.73 | - | - | - | - |
| 233 | 22 | 338 | 0.03 | 272 | 14 | 355P | 0.2 | - | - | - | - |
| 234 | 9 | 339 | 0.94 | 273 | 11 | 356P | 0.69 | - | - | - | - |
| 235 | 20 | 340 | 0.76 | 274 | 3 | 360P | 1.09 | - | - | - | - |
| 236 | 10 | 343 | 0.1 | 275 | 6 | 370P | 1.59 | - | - | - | - |
| 237 | 22 | 344 | 0.22 | 276 | 19 | 371P | 0.93 | - | - | - | - |
| 238 | 6 | 345 | 0.56 | 277 | 6 | 372P | 1.26 | - | - | - | - |
| 239 | 7 | 346 | 0.11 | 278 | 11 | 6P | 0.81 | - | - | - | - |
| 240 | 7 | 347 | 0.25 | Total Area in Mangardaha | | | 168.64 | - | - | - | - |
| 241 | 9 | 348 | 0.57 | - | - | - | - | - | - | - | - |
| 242 | 11 | 349 | 0.48 | - | - | - | - | - | - | - | - |
| 243 | 12 | 350 | 0.09 | - | - | - | - | - | - | - | - |
| 244 | 11 | 351 | 0.15 | - | - | - | - | - | - | - | - |
| 245 | 6 | 352 | 0.97 | - | - | - | - | - | - | - | - |
| 246 | 6 | 353 | 0.57 | - | - | - | - | - | - | - | - |
| 247 | 22 | 354 | 0.76 | - | - | - | - | - | - | - | - |
| 248 | 1 | 361 | 0.37 | - | - | - | - | - | - | - | - |

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|-----|----|------|------|---|---|---|---|---|---|---|---|
| 249 | 20 | 362 | 0.37 | - | - | - | - | - | - | - | - |
| 250 | 18 | 363 | 0.16 | - | - | - | - | - | - | - | - |
| 251 | 5 | 364 | 0.59 | - | - | - | - | - | - | - | - |
| 252 | 19 | 365 | 0.13 | - | - | - | - | - | - | - | - |
| 253 | 23 | 366 | 0.65 | - | - | - | - | - | - | - | - |
| 254 | 18 | 367 | 0.16 | - | - | - | - | - | - | - | - |
| 255 | 22 | 368 | 0.14 | - | - | - | - | - | - | - | - |
| 256 | 20 | 369 | 0.16 | - | - | - | - | - | - | - | - |
| 257 | 20 | 373 | 0.16 | - | - | - | - | - | - | - | - |
| 258 | 19 | 374 | 0.13 | - | - | - | - | - | - | - | - |
| 259 | 22 | 375 | 2.42 | - | - | - | - | - | - | - | - |
| 260 | 22 | 376 | 0.29 | - | - | - | - | - | - | - | - |
| 261 | 1 | 377 | 0.6 | - | - | - | - | - | - | - | - |
| 262 | 22 | 281P | 1.12 | - | - | - | - | - | - | - | - |
| 263 | 4 | 284P | 0.98 | - | - | - | - | - | - | - | - |
| 264 | 20 | 285P | 0.21 | - | - | - | - | - | - | - | - |
| 265 | 15 | 286P | 0.12 | - | - | - | - | - | - | - | - |
| 266 | 7 | 312P | 0.97 | - | - | - | - | - | - | - | - |
| 267 | 22 | 313P | 0.06 | - | - | - | - | - | - | - | - |
| 268 | 11 | 314P | 0.31 | - | - | - | - | - | - | - | - |
| 269 | 5 | 337P | 2.58 | - | - | - | - | - | - | - | - |
| 270 | 3 | 341P | 0.32 | - | - | - | - | - | - | - | - |

VILLAGE- KITCHTO

| S.N | Khata no. | Plot No. | Area (Ha) | S.N | Khata no. | Plot No. | Area (Ha) | S.N | Khata no. | Plot No. | Area (Ha) |
|-----|-----------|----------|-----------|-----|-----------|----------|-----------|-----|-----------|----------|-----------|
| 1 | 8 | 616 | 0.55 | 5 | 12 | 619 | 0.56 | 9 | 16 | 623 | 0.27 |

| | | | | | | | | | | | |
|---|----|-----|------|---|----|-----|------|----|----|------|------|
| 2 | 16 | 613 | 1.5 | 6 | 39 | 620 | 0.44 | 10 | 15 | 624P | 0.53 |
| 3 | 16 | 617 | 0.21 | 7 | 16 | 621 | 0.12 | 11 | 7 | 625P | 0.6 |
| 4 | 14 | 618 | 0.57 | 8 | 12 | 622 | 0.98 | 12 | 15 | 626P | 0.2 |

Total Area in Kitchto

6.53

VILLAGE- THENA

| S.N | Khata no. | Plot No. | Area (Ha) | - | - | - | - | - | - | - | - |
|-----|-----------|----------|-----------|----------------------------|----|-----|------|-------------|----|------|------|
| 1 | 19 | 154P | 0.22 | 4 | 13 | 158 | 0.04 | 6 | 13 | 160 | 0.04 |
| 2 | 10 | 155P | 0.16 | 5 | 10 | 159 | 0.06 | 7 | 10 | 161P | 0.52 |
| 3 | 13 | 156P | 0.1 | Total Area in Thena | | | | 1.14 | | | |

VILLAGE - BIJAIN

| S.N | Khata no. | Plot No. | Area (Ha) | S.N | Khata no. | Plot No. | Area (Ha) | S.N | Khata no. | Plot No. | Area (Ha) |
|-----|-----------|----------|-----------|-----|-----------|----------|-----------|-----|-----------|----------|-----------|
| 1 | 16 | 140 | 0.01 | 8 | 8 | 168 | 0.01 | 15 | 18 | 176 | 0.1 |
| 2 | 5 | 141 | 0.08 | 9 | 23 | 169 | 0.22 | 16 | 2 | 177 | 0.08 |
| 3 | 17 | 146 | 0.24 | 10 | 8 | 170 | 0.15 | 17 | 6 | 185 | 0.23 |
| 4 | 23 | 148 | 0.08 | 11 | 13 | 172 | 0.23 | 18 | 12 | 186 | 0.07 |
| 5 | 2 | 164 | 0.12 | 12 | 13 | 173 | 0.01 | 19 | 21 | 187 | 0.11 |
| 6 | 2 | 166 | 1.39 | 13 | 7 | 174 | 0.12 | 20 | 15 | 188 | 0.02 |
| 7 | 8 | 167 | 0.1 | 14 | 7 | 175 | 0.01 | 21 | 15 | 189 | 0.24 |
| 22 | 9 | 190 | 0.11 | 62 | 4 | 246 | 0.59 | 102 | 6 | 322 | 0.04 |
| 23 | 2 | 191 | 0.08 | 63 | 2 | 247 | 0.17 | 103 | 23 | 323 | 0.01 |
| 24 | 8 | 192 | 0.03 | 64 | 7 | 249 | 0.17 | 104 | 12 | 324 | 0.02 |
| 25 | 2 | 193 | 0.14 | 65 | 3 | 250 | 0.23 | 105 | 13 | 325 | 0.16 |
| 26 | 2 | 194 | 0.12 | 66 | 1 | 268 | 5.46 | 106 | 13 | 326 | 0.05 |
| 27 | 7 | 195 | 0.13 | 67 | 16 | 271 | 0.14 | 107 | 17 | 327 | 0.28 |

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|----|----|-----|------|----|----|------|-------|-----|----|------|------|
| 28 | 2 | 196 | 0.21 | 68 | 1 | 278P | 6.68 | 108 | 10 | 328 | 0.25 |
| 29 | 2 | 197 | 0.26 | 69 | 4 | 288 | 0.98 | 109 | 2 | 329 | 0.13 |
| 30 | 15 | 199 | 0.23 | 70 | 1 | 289P | 15.17 | 110 | 2 | 330 | 0.98 |
| 31 | 6 | 200 | 0.08 | 71 | 1 | 290 | 10.82 | 111 | 17 | 331 | 0.13 |
| 32 | 12 | 201 | 0.01 | 72 | 22 | 291 | 0.27 | 112 | 9 | 332 | 0.4 |
| 33 | 6 | 202 | 0.02 | 73 | 13 | 292 | 1.62 | 113 | 1 | 333 | 0.48 |
| 34 | 9 | 207 | 0.24 | 74 | 8 | 293 | 0.81 | 114 | 9 | 334 | 0.13 |
| 35 | 24 | 209 | 0.02 | 75 | 1 | 295 | 0.52 | 115 | 5 | 336 | 0.06 |
| 36 | 8 | 211 | 0.36 | 76 | 5 | 296 | 0.12 | 116 | 2 | 163P | 0.14 |
| 37 | 8 | 212 | 0.09 | 77 | 5 | 297 | 0.6 | 117 | 2 | 165P | 0.73 |
| 38 | 15 | 213 | 0.22 | 78 | 11 | 298 | 0.11 | 118 | 2 | 178P | 0.53 |
| 39 | 24 | 214 | 0.01 | 79 | 11 | 299 | 0.13 | 119 | 6 | 203P | 0.08 |
| 40 | 22 | 215 | 0.32 | 80 | 5 | 300 | 0.07 | 120 | 2 | 208P | 0.95 |
| 41 | 8 | 216 | 0.25 | 81 | 11 | 301 | 0.01 | 121 | 23 | 210P | 0.04 |
| 42 | 15 | 217 | 0.54 | 82 | 5 | 302 | 0.06 | 122 | 2 | 225P | 0.27 |
| 43 | 6 | 218 | 0.33 | 83 | 9 | 303 | 0.01 | 123 | 2 | 226P | 0.2 |
| 44 | 2 | 219 | 0.36 | 84 | 15 | 304 | 0.08 | 124 | 6 | 229P | 0.4 |
| 45 | 5 | 220 | 0.11 | 85 | 23 | 305 | 0.01 | 125 | 2 | 230P | 0.31 |
| 46 | 9 | 221 | 0.07 | 86 | 5 | 306 | 0.23 | 126 | 13 | 231P | 0.26 |
| 47 | 11 | 222 | 0.04 | 87 | 23 | 307 | 0.03 | 127 | 15 | 267P | 0.78 |
| 48 | 11 | 223 | 0.04 | 88 | 9 | 308 | 0.58 | 128 | 6 | 269P | 0.71 |
| 49 | 2 | 224 | 0.2 | 89 | 1 | 309 | 0.25 | 129 | 2 | 270P | 0.5 |
| 50 | 2 | 227 | 0.3 | 90 | 1 | 310 | 0.88 | 130 | 2 | 272P | 2.51 |
| 51 | 2 | 228 | 0.44 | 91 | 15 | 311 | 0.16 | 131 | 1 | 279P | 9.61 |
| 52 | 2 | 232 | 0.11 | 92 | 6 | 312 | 0.25 | 132 | 1 | 284P | 2.44 |
| 53 | 7 | 233 | 0.12 | 93 | 10 | 313 | 0.51 | 133 | 2 | 285P | 0.37 |

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|----|----|-----|------|-----|----|-----|------|-----------------------------|---|--------------|------|
| 54 | 18 | 234 | 0.02 | 94 | 22 | 314 | 0.34 | 134 | 4 | 286P | 0.85 |
| 55 | 2 | 237 | 0.13 | 95 | 8 | 315 | 0.28 | 135 | 1 | 294P | 3.64 |
| 56 | 8 | 239 | 0.19 | 96 | 18 | 316 | 0.2 | Total Area in Bijain | | 88.38 | |
| 57 | 2 | 240 | 0.11 | 97 | 13 | 317 | 0.47 | - | - | - | - |
| 58 | 2 | 241 | 0.1 | 98 | 15 | 318 | 0.29 | - | - | - | - |
| 59 | 6 | 242 | 0.03 | 99 | 12 | 319 | 0.14 | - | - | - | - |
| 60 | 2 | 243 | 0.06 | 100 | 13 | 320 | 0.14 | - | - | - | - |
| 61 | 7 | 245 | 0.3 | 101 | 22 | 321 | 0.21 | - | - | - | - |

Land Acquisition:

Project area of 464.69 Ha. on which mining plan/Abridged PR has been prepared and approved by Board of Director of CCL, and for which ToR has been issued by MoEF&CC, is part of 1416.38 Ha land acquired as per Notification of MoC as per Section 11 of CBA Act 1957 vide 19/87/82-CL dated 10.03.1983.

| SL | Notification under Section 11 of CBA Act | Date | Area in Ha. |
|-------------------------|--|------------|----------------|
| 1 | No. 19/87/82 - CL | 10.03.1983 | 1416.38 |
| Total Area in Ha | | | 1416.38 |

Land Type Breakup:

| SL | Pattern | Area (in Ha) |
|----|----------------------|---------------|
| 1 | Notified Forest Land | 128.14 |
| 2 | GM JJ Land | 37.81 |
| 3 | GMK Land | 108.32 |
| 4 | GMA Land | 4.63 |
| 5 | Tenancy Land | 185.79 |
| | TOTAL | 464.69 |

Pre-Mining Land Use:

| SN | Land Use | Area in Ha | Remarks |
|----|-------------|------------|---|
| 1 | Forest land | 165.95 | The present land use of this forest land: involves 73.69 Ha. of vegetated land, 80.84 Ha as backfilled mine quarry, roads and dump, 11.42 Ha. as mine |

| | | | |
|---------------------------|------------------------|---------------|--|
| | | | void filled with water. |
| 2 | Plantation Area | 118.32 | This include natural vegetation and vegetation on biologically reclaimed area falling within the non-forest land |
| 3 | Mining Area | 146 | This include backfilled area and quarry falling within the non-forest land |
| 4 | Settlement | 4 | |
| 5 | Water filled mine void | 21.42 | This include water logged area falling within the non-forest area |
| 6 | Waste Land | 9 | This include surface roads, parking areas etc. falling within the non-forest area |
| Total Project Area | | 464.69 | |

Land Use During Mining:

| SL | Pattern | Proposed Area (Ha) |
|----|--|--------------------|
| 1 | UG Mining Area-As the proposed working is underground means, surface shall not be disturbed. | 403.56 |
| 2 | Water Reservoir- Existing mine void of exhausted Piparwar OCP will be converted into water reservoir to store the UG mine discharge | 26.13 |
| 3 | Infrastructure- Surface infra including mouth incline, surface bunker, W/S, S/S, store, rest shelter etc on the surface of void of exhausted Piparwar OCP. | 30.00 |
| 4 | Greenbelt | 5.00 |
| | TOTAL | 464.69 |

Provision of Final Mine Closure of Piparwar OCP:

1. Final Mine closure Plan of Piparwar OCP has been prepared as per the latest mine closure guidelines.

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2. This project has been implementing several mine closure activities including technical and biological reclamation of mined out land, environmental monitoring, development of Kayakalp vatika etc.
3. As per the audit reports submitted by CMPDI Ranchi and NEERI Nagpur, around 90.10 Crs was spent by the project on various mine closure activities

Energy Conservation:

1. Solar Power Plant (20 MW) has been constructed at a cost of 142.95 Crores in Piparwar Area. Further additional 10 MW Solar Power Plant is proposed.
2. Further, a floating cum ground mounted Solar (Capacity: 7 MW Floating & 3 MW Ground Mounted) is proposed in the Quarry-I void of Piparwar OCP.
3. For decreasing the maximum demand of the project power factor of 0.98 will be maintained using automatic power factor correction Capacitor banks.
4. Energy efficient LED luminaires has been proposed for all types of illuminations.
5. Energy efficient motors have been proposed as energy conservation measures.
6. Periodical maintenance of equipment's, energy audits, optimization of distribution networks Promoting use of renewables and energy efficient appliances in Project and nearby villages.

Subsidence Study & Subsidence Management Plan:

1. The subsidence prediction model, based on the Influence Function method developed by CMPDI, was used to estimate subsidence in the proposed mining area where caving methods will be applied.
2. The disturbed rock mass, caused by previous opencast mining, was considered in the predictions.
3. Predictions were made for the 5th, 10th, and 14th years (end of mine life), with maximum subsidence of 1.940m over panel N1 in the first two stages, and 2.06m over panel N5 by the end of the mine life.
4. Maximum strain and slope values are projected to be 12.13mm/m & 23.10mm/m initially, rising to 18.33mm/m & 34.92mm/m at the end. Further, it is unlikely to cause the any major topographical change.
5. Surface cracks caused by subsidence should be regularly filled with clay and stone chips, followed by a clay heap to restore the original drainage pattern, enhance soil water retention, reduce erosion, and prevent underground inundation and spontaneous heating.
6. Afforestation and forest cover enhancement should be undertaken to address any environmental losses.
7. Water accumulation in subsidence-induced depressions can benefit vegetation and should be retained when safe or drained otherwise.
8. Surface drains must be constructed outside subsidence areas to prevent water from entering active zones.
9. To protect key surface features, coal pillars should remain unextracted within the subsidence influence zone.



10. A dedicated team will be established by the mine management to monitor and manage crack filling, ensuring materials are readily available.

STATUTORY CLEARANCES:

| | | | |
|---|-------------------------------------|---|---|
| 1 | LOI/Lease docs | : | The land has been acquired under the Section 11 of CBA Act 1957 vide 19/87/82-CL dated 10.03.1983. |
| 2 | CO | : | The CO, Tandwa (Chatra) vide letter dated 16.05.2024 has mentioned that some plots of the Mouza : Kichto, Bijain, Benti, Mangardaha & Thena are recorded as "Jungle- Jhari" in R.S. Khatiyani & Register II bearing total area 37.81 Ha for which diversion application of Forest land has been submitted vide proposal no. FP/JH/MIN/44975/2020. |
| 3 | DFO Wild Life | : | DFO, Wildlife Division, Hazaribagh vide letter no. 2841, dated 07.12.2023 certified that the said project is outside Eco Sensitive Zone of Lawalong Wildlife Sanctuary. |
| 4 | DFO Forest Distance | : | DFO, Chatra South Forest Division vide letter no. 1065, dated 22.05.2024 certified that the distance of forest land is 0 (Zeor) meters. |
| 5 | Approval of Abridged Project Report | : | Abridged Project Report approved by Company Secretary, Central Coalfields Ltd. vide Ref No.: - CS/BM/507/2021/303. Dated: - 18.10.2021. |
| 6 | CGWA | : | NOC for Ground Water Abstraction vide NOC no. CGWA/NOC / MIN/ORIG /2024/19856, dated 05.02.2024 valid up to 04.02.2026. |
| 7 | Previous ToR | : | Previous ToR was granted by MoEF&CC, Govt. of India vide No: IA-J-11015/10/2010-IA-II(M) Dated: 08.06.2020. |
| 8 | Public Hearing | : | Conducted on 25.08.2023 |
| 9 | Baseline Data Period | : | i. Baseline data period in the draft EIA October to December, 2020 (Post Monsoon). ii. Revalidation of baseline data done during the period 01.01.2024 to 31.03.2024 |

Cumulative Impact assessment of study area:

1. Cumulative Impact assessment of study area (10km buffer) w.r.t all environmental parameters has been carried out by incorporating all existing and proposed industrial

activities falling within the study area and the impact is minimal due to change in mining process.

2. Impact on ambient air quality has been assessed by carrying out cumulative impact of all industries present in the 10 km buffer zone using AERMOD software, and the results suggest that the predicted ambient air quality is well within the prescribed norms.
3. Impact on ground water regime has been assessed as per GEC 2015 norms. Stage of Groundwater Extraction (SGE) of the buffer area is 23.00% which is within safe category.
4. Furthermore, the impact on flora fauna and socio-economic regimes has been done for the 10 km buffer zone of the project.
5. As the proposed mine is an underground mine within the worked-out area of Piparwar OCP, the impact on major environmental parameters viz. air, water, land, socio and flora-fauna would be minimal.

Wildlife Management Plan and Budgetary Provision:

06 nos. of Schedule-I faunal species have been observed in the buffer zone of the study area. Conservation Plan for the same has been prepared and submitted to DFO, Chatra (South) vide letter no. PO(Ashok)-Conservation Plan /DFO, Chatra/2024-25/374, dated 22.08.2024 (Budget 83.04 Lakh).

Impact of mining on Hydrology:

1. A detailed Hydrogeological study as per GEC 2015 has been carried out to estimate the impact of proposed mining activity on hydrological regime.
2. As per the study, the radius of Influence (RoI) is estimated as 360 m, and the stage of ground water extraction of the study area has been estimated as 23.00 %, which falls into safe category as per the CGWA guidelines.
3. In addition to this, this project being an underground mine, and it won't affect the surface water regime
4. No Objection Certificate (NoC) from CGWA has been obtained vide letter no: CGWA/NOC/MIN/ORIG/2024/19856 Dt. 05/02/2024, valid upto 04.02.2026 for an extraction rate of 560.00 m³/day

Total EIA/EMP Expenditure:

A. Capital Cost of Environmental Control Measures

| A. Air Pollution Control Measures | | |
|-----------------------------------|--|---------------------------------------|
| S.No | Pollution Control Measure | Estimated Capital Cost (Rs. Lakhs) |
| 1 | PCC/Black topping of Coal transportation Haul road from Mine to Piparwar siding of Length 900m | 100 |
| 2 | Fixed mist type sprinkling system along coal transportation road for dust suppression | 50 |

| | | |
|---|--|----------------|
| 3 | 2 no. of Fixed Fog canons for Dust Supression at Stock Yard | 15 |
| 4 | Permanent wind screen to be provided all along the boundary of stock yard | 50 |
| 5 | 1 no. of movable Fog canons for Dust Supression at Rly Siding | 40 |
| 6 | 1 no. of Fixed Fog canons for Dust Supression at Rly siding | 7.5 |
| 7 | Permanent wind screen to be provided all along the boundary of Railway Siding | 50 |
| Sub Total (A) | | 312.5 |
| B. Water Pollution Control Measures | | |
| 1 | 3 no. of Sumps (2 UG and 1 Surface) have been proposed for proper handling, treatment and disposal of mine seepage water | 38.5 |
| 2 | Strengthening of embankment against Mangradaha Nala flowing along northern boundary of the project | 50 |
| 3 | Construction of garland drain along with intermittent Settling ponds all along the mine boundary and infrastructure (Approx. 5 km) | 50 |
| 4 | Rainwater Harvesting on all industrial buildings like Workshop, PO Office, SS etc. | 30 |
| 5 | Sewage treatment plant (40 kLD) | 25 |
| 6 | Drinking water facility at colony | 12 |
| 7 | Mine effluent treatment facility at Project | 35 |
| Sub Total (B) | | 240.5 |
| C. Land Reclamation | | |
| 1 | Green belt development/ plantation at Industrial Site | 200 |
| 2 | Biological reclamation/ gap plantation of Surface of UG Mine including subsided area | 400 |
| 3 | Conservation Plan of Schedule-I species | 83.04 |
| Sub Total (C) | | 683.04 |
| Protection Plan for Safeguarding River Damodar (D) | | 744.45 |
| Grand Total (A)+(B)+(C)+(D) in Rs. Lakhs | | 2050.49 |

Proposed Protection Measures to Safeguard the River Damodar

| Sn | Activity | Cost Rs. Lakh | Timeline of Completion | Remarks |
|----|--|---------------------|---|---|
| 1 | Plantation Plan within the catchment and along the River Damodar (Approx. 40 Ha.) including 3 year maintenance through state | 160 | <ul style="list-style-type: none"> 25.54 Ha. Taken up in Monsoon 2024. (101.32 Lakhs). 5 Ha. Per year in coming 3 years | WO issued for FY 2024-25 for 105.91 Lakhs |

| | | | | |
|----------------------------|--|---------------|--------------------------------------|--|
| | forest Dept. | | (monsoon 25, 26 & 27) | |
| 2 | Integrated Sewage treatment plant for Basant Vihar Colony, 1 BR Colony and MQ 48 Colony | 523.95 | Dec-24 | WO Issued vide letter no: CCL/HQ(Civ)/HOD/2023-24/347 dt. 29.11.2023 |
| 3 | Restoration of ponds in nearby villages (Benti, Kichto, Kalyanpur, Mangahrdaha etc.) | 17 | Will be taken up in FY 24-25 & 25-26 | |
| 4 | Vertical greenery system along the high level bridge 300 m X 5 m (with profile sheet on upwind side and vertical greenery system on DW side) | 43.5 | Will be Completed by Dec 2025 | |
| Total (in Rs. Lakh) | | 744.45 | | |

B. Revenue Cost of Environmental Control Measures:

| S.No | Particulars | Annual Revenue Cost (Rs Lakh) |
|-------------------|---|-------------------------------|
| 1 | Environmental Monitoring Cost | 108.02 |
| 2 | Plantation Maintenance Cost | 10 |
| 3 | Dust Suppression | 50 |
| 4 | Maintenance cost for ETP and STP | 10 |
| 5 | Maintenance of RWH, Catch drains, Storm water drains and other development measures in Township | 10 |
| 6 | Miscellaneous Cost including subsidence management | 30 |
| Total Cost | | 218.02 |

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C. Action Plan for Public Hearing:

| SN. | Additional Measures Proposed for Compliance of PH | Tentative Cost in Rs. Cr | Timeline of Completion |
|-----|--|--------------------------|------------------------------|
| 1 | Planting fruit bearing saplings in schools, health centres, panchayat bhawans, administrative offices etc. @ 15 locations. Additionally, PP will oversee the maintenance of the plantations for four years thereafter. | 0.07 | 1st year |
| 2 | Distribution of fruit bearing saplings will to the nearby village 2000 saplings/ year for 3 years | 0.07 | 3 Years |
| 3 | Skill development training for PAFs in various agricultural practices viz. organic farming, mushroom farming, poultry, pisciculture etc. for 100 PAFs each year for next 3 years. | 1.05 | 3 Years |
| 4 | Wind Barrier all along the road adjacent to Mangardaha village @ 600m X 8 m height | 0.75 | 1st year |
| 5 | 02 Nos. Mobile Fog Cannon and dust extraction from road in adjacent villages Bahera, Kichto and Benti for 3 years | 1.21 | 3 Years |
| 6 | Additional Health Camps proposed (bi annually) for the villages Benti, Kalyanpur, Kichto/Mangardaha and Bahera for 3 years (Health Consultation including checkups, pathological tests and basic medicines Distribution) | 0.15 | 3 Years |
| 7 | One additional Ambulance service for adjacent villages for 3 years | 0.30 | 3 Years |
| 8 | Repair and maintenance of roads in Benti Village | 0.40 | 1st year |
| 9 | Repair of Existing building at DAV Public School Kalyanpur under CSR Scheme of Piparwar Area | 1.03 | As per the Work order issued |
| 10 | R&R (No R&R involved in this project) | 0 | Not Applicable |
| | Minimum Total Cost to be spent in PH Compliance | 5.03 Crore | |

D. Provision for Wildlife Management Plan:

| Sl. No. | Component | Unit Cost (in Rs.) | Units | Provision in Lakhs |
|---------|----------------------------------|--------------------|-------|--------------------|
| 1 | Habitat Improvement for Wildlife | | | |

| | | | | |
|---|---|----------------------|-------|-------|
| a | Creation of Grasslands for herbivore species in the forest area within the buffer zone at different places. | Rs 0.50 lakh/Ha. | 4 Ha | 2.00 |
| b | Augmentation of degraded areas by planting mixed native species. Silvi-Cultural operation, Weed Removal (Assisted Natural Regeneration) | Rs 0.25 lakh/Ha. | 5 Ha | 1.25 |
| c | Soil and moisture conservation by Contour trenching, gully plugging at suitable locations within the forest. | Rs 0.25 lakh/Ha. | 5 Ha | 1.25 |
| d | Development of waterholes, water troughs, and mini check dams for providing drinking water facility for animals | Rs 1 lakh/Ha. | 5 Ha | 5.00 |
| 2 Providing Safety and Protection Measures for Wildlife | | | | |
| a | Creation of fire lines and maintenance | Rs 4200/km | 20 KM | 0.84 |
| b | Procurement of Leaf blowers and Firefighting Equipment | 60000/unit | 2 | 1.20 |
| c | Construction of watchtower for surveillance of fire and biotic interference in the forest area | Rs 6 lakh/Tower | 2 | 12.00 |
| 3 Capacity Building & Awareness Programme | | | | |
| a | Technical training to the Frontline Staff regarding rescue and rehabilitation of wild animals | Rs 0.5 lakh/training | 5 | 2.50 |
| b | Distribution of pamphlets and brochures related to wild animals for local communities | Lumpsum | - | 1.00 |
| 4 Research and Wildlife monitoring | | | | |
| a | Purchase of Camera Trap for wildlife study | 20,000/unit | 10 | 2.00 |
| b | Appointment of Researcher and Field assistant for 2 years | 50,000/month | 2 | 24.00 |
| 5 Machinery And Equipment for Mitigating Human-Wildlife Conflicts | | | | |
| a | Mobile animal rescue unit for wild animals trapped in the villages and shifting the injured | 15 lakhs/unit | 1 | 15.00 |

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|----------------------------|---|-------------------|--------------|-------|
| | animals | | | |
| b | Development of veterinary Facilities for wildlife | 10 lakhs/ unit | 1 | 10.00 |
| c | Other Miscellaneous Funds | Lumpsum | - | 5.00 |
| Total (in Rs. Lakh) | | | 83.04 | |

Based on the information contained in the documents submitted and the presentation made before the State Level Expert Appraisal Committee (SEAC) during its meeting held on 30.09.2024, the Committee observed that the out of the total Forest Land required for the project, Stage-II FC for 128.14 Ha was earlier issued for Piparwar Opencast Project, which is under process of change in land-use for the underground mining and fresh proposal of 37.81 Ha of GM JJ land is under process of diversion, which was broken prior to 12.12.1996. Accordingly, any production through underground mining can commence only after diversion of entire forest land falling within the project area is approved.

- E. Considering the request submitted by Project Proponent Dated: 30.09.2024 and thorough study of the project parameters, SEAC accordingly considered this project for issuance of EC for Piparwar UG (Phase-I) (Capacity: 0.87 MTPA Area: 464.69 Ha) for development activities only in Non-Forest Land as mentioned below:

| Activity | Plot & Khata Number | Length/Parameters |
|---------------------------------|---|--|
| Drivage of inclines 1 | Plot Number 14 (Area: 13.16 Ha Non-Forest Land) in Mangardaha Village | 202.00 meter |
| Drivage of inclines 2 | | 277.00 meter |
| Drivage of inclines 3 | | 283.00 meter |
| Establishment of substation etc | Plot Number 8 (Area: 1.04 Ha), 9 (Area: 0.34 Ha), 10 (Area: 0.59 Ha) in Mangardaha Village & Plot Number 3 (Area: 0.03 Ha) and 6 (Area: 0.09 Ha) in Village Benti All these being non-forest area. | Necessary Infrastructure for Developmental activities. |

The proposal was appraised by State Level Expert Appraisal Committee (SEAC) and recommended for grant of Environmental Clearance only for developmental activities on Non-Forest Land in its 117th meeting held on 27th, 28th, 29th, 30th September, 2024 and 01st October, 2024.

State Level Environment Impact Assessment Authority (SEIAA), Jharkhand in its 117th meeting held on 15th & 16th October, 2024 discussed the project proposal along with recommendations







made by SEAC and decided to grant EC to the project only for developmental activities on Non-Forest Land.

Following the decision of SEIAA, as mentioned above, Environmental Clearance only for developmental activities on Non-Forest Land is hereby issued to the **“Piparwar UG (Phase I) (0.87 MTPA) Piparwar area of M/s Central Coalfields Ltd. at Village : Benti, Mangardaha, Kichto, Thena & Bijain, Tehsil : Tandwa, District : Chatra, Jharkhand (464.69 Ha)”** alongwith the following specific conditions as recommended by SEAC:-

I. Specific Conditions:

- i. This Environmental Clearance is valid subject to the following condition below –
That this project has-
 - a. Obtained all legal rights to operate at concerned place.
 - b. Complied with all existing concerned laws of the land and
 - c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.
- ii. **In compliance of OM no.F.No. IA3-22/3/2024-IA.III (E-241594) dated 24.07.2024 of MoEF&CC, Govt. of India plantation of saplings shall be carried out in the earmarked green belt area as the part of tree plantation campaign “*Ek Ped Ma Ke Naam*” and the details of the same shall be uploaded in the MeriLiFE Portal (<https://merilife.nic.in>).**
- iii. This EC will be valid only for development activities in non forest area as detailed in section “E” above.
- iv. Project Proponent will seek amendment in Environment Clearance after obtaining diversion of Forest Land under the Forest (Conservation) Act, 1980/VAN (SANRAKSHAN EVAM SAMVARDHAN) Adhiniyam, 1980.
- v. Project proponent will commence production from Underground mine only after obtaining diversion of Forest Land under the Forest (Conservation) Act, 1980/VAN (SANRAKSHAN EVAM SAMVARDHAN) Adhiniyam, 1980 and only after obtaining amendment in Environment Clearance from SEIAA / SEAC.

Sd/-
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand

Memo No : EC/SEIAA/2024-25/3146/2024/ 318

Ranchi, Date : 21/10/2024

Copy to:

1. Principal Secretary, Department of Forests, Environment & Climate Change, Govt. of Jharkhand.
2. Deputy Commissioner, District – Chatra, Jharkhand.
3. Divisional Forest Officer, Chatra South Forest Division, Chatra, Jharkhand.

4. Divisional Forest Officer, Wildlife Division, Hazaribagh, Jharkhand.
5. Director IA Division, Monitoring Cell, MoEF and Climate Change, Indira Paryavaran Bhavan, Jorbag Road, Aliganj, New Delhi – 110003.
6. Regional Office, Ministry of Environment, Forest and Climate Change, Govt. of India, 2nd Floor, Jharkhand State Housing Board (HQ), Harmu Chowk, Ranchi, Jharkhand – 834002.
7. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.
8. Secretary, Jharkhand State Expert Appraisal Committee, Ranchi.
9. Website.
10. Guard file.

