



सत्यमेव जयते

भारत सरकार / GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE
क्षेत्रीय कार्यालय, भोपाल/ REGIONAL OFFICE, BHOPAL

Kendriya Paryavaran Bhavan, Link Road No.3, E-5, Ravi Shankar Nagar,
BHOPAL - 462016 (M.P.)

TEL: 0755-2466525 E-mail: rowz.bpl-mef@nic.in



File No. 6-MPA009/2023-BHO/285

Dated : 30 /01/2024.

To,

The Additional Director General of Forests (FC)
Ministry of Environment, Forest & Climate Change
Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj
New Delhi - 110 003.

Sub: Site Inspection for diversion of 807.917 ha (instead of 785.49 ha) forest land out of which 804.367 ha forest land in RF-389, 390, 290, 291, 292, 293, 294, 296, 319, 320, 391, 392 & PF-316, 317 of Forest Range Waidhan/Sarai East and 3.55 ha Revenue forest in various Khasra's for Open Cast Bandha Coal Mine Project in favour of M/s EMIL Mines & Mineral Resources Limited under Singrauli Forest Division, Singrauli District of Madhya Pradesh (*Online proposal No. FP/MP/MIN/144129/2021*)-reg.

Ref: MoEF&CC, New Delhi Letter No. 8-17/2023-FC dated 06/10/2023.

Sir,

With respect to the subject and reference cited above, the Site Inspection Report of Regional Office, Bhopal in respect of 807.917 ha (instead of 785.49 ha) forest land out of which 804.367 ha forest land in RF-389, 390, 290, 291, 292, 293, 294, 296, 319, 320, 391, 392 & PF-316, 317 of Forest Range Waidhan/Sarai East and 3.55 ha Revenue forest in various Khasra's for Open Cast Bandha Coal Mine Project in favour of M/s EMIL Mines & Mineral Resources Limited under Singrauli Forest Division, Singrauli District of Madhya Pradesh is submitted herewith for further necessary action.

Yours faithfully

Encl : As above.

(A.K. Sinha)

Dy. Director General of Forests (C)

Copy to:

Shri Suneet Bhardwaj, AIGF, Ministry of Environment, Forest & Climate Change
(FC Division), Indira Paryavaran Bhawan, Jor Bag Road, Aliganj, New Delhi.

Field Inspection Report of A.K. Sinha, IFS, DDGF (C), RO Bhopal

Ref: MoEF&CC, (FC Division) letter No 8-17/2023-FC dated: 06 October 2023

Date of Inspection: 01.12.2023.

Officers present at the time of inspection:-

1. A. K. Sinha, Dy. Director General of Forest (C), Regional Office, MoEF&CC, Bhopal.
2. Shri Narendra K. Tripathi, Sub Divisional Officer (SDO), Waidhan Singrauli Division.
3. Shri Ashish Mishra, Range Forest Officer, East Sarai
4. Smt. Lalli Singh, Forest Beat Officer
5. Shri Umesh Kumar Mahto, President Mining Business, EMMRL
6. Shri Dipesh Bhatia, Jt. President and Project Head, Bandha Coal Block, EMMRL

| | | | | | | |
|------------------------------|---|---|-------------------------------|-------------------------------------|--------------------------------------|----------------------|
| Title of the Project: | | Diversion of 807.917 ha (<i>instead of 785.49 Ha</i>) forest proposal out of which 804.367 ha forest land in RF-389,390,290,291,292,293,294,296,319,320,391, 392 & PF-316, 317 of Forest Range Waidhan/Sarai East and 3.55 ha Revenue Forest in various Khasra's for open Cast Bandha Coal Mine Project in favour of M/s EMIL Mines & Minerals Resources Limited Under Singrauli Forest Division, Singrauli District of Madhya Pradesh State. Online Proposal No. FP/MP/MIN/144129/2021 | | | | |
| 1. | Legal status of the forest land proposed for diversion: | Forest Division | Protected Forest (Ha) | Reserved Forest (Ha) | Revenue Forest (Ha) | Total (in Ha) |
| | | Singrauli | 86.694 | 717.673 | 3.550 | 807.917 |
| | | TOTAL | 86.694 | 717.673 | 3.550 | 807.917 |
| 2. | Item-wise break-up details of the forest land proposed for diversion: | The Proposed diversion is for Bandha Coal Block by M/s EMIL Mines and Mineral Resources Limited. Component wise details are as follows: | | | | |
| | | No | Component | Forest Area Involved (in Ha) | Revenue Area Involved (in Ha) | Total (in Ha) |
| | | 1 | External Dump | 183.750 | 166.510 | 350.26 |
| | | 2 | Railway Siding | 0.540 | 15.460 | 16 |
| | | 3 | Infrastructure+ Settling Pond | 0.000 | 77.619 | 77.619 |

| | | | | | | | |
|----|--|---|---|--------------------------------------|----------------|-----------------|----------------|
| | | | 4 | Pit/Internal Dump | 538.463 | 776.899 | 1315.36 2 |
| | | | 5 | Rationalisation/ Undisturbed area | 77.684 | 0.000 | 77.684 |
| | | | 6 | Safety Zone | 7.480 | 6.532 | 14.012 |
| | | | | TOTAL | 807.917 | 1043.020 | 1850.94 |
| 3. | Whether proposal involves any construction of buildings (including residential) or not. If yes, details thereof: | Proposal for construction of Railway siding in 0.540 ha in compartment no. RF-293. | | | | | |
| 4. | Total cost of the Project at present rates: | 2300.07 Crores (as per online Part-I) | | | | | |
| 5. | Wildlife: | <p>As per the Site inspection report of DFO Singrauli and CCF Rewa, the Working plan prescription shows that compartment nos. RF-291, 292, 293 & 391 fall in Elephant Corridor. However, no movement of Elephants have been noticed in the last 10 years. The Working plan also prescribes, in case the diversion of the said area is essentially required, an alternative Elephant Corridor may be formed. The DFO and CCF have recommended the proposal on the condition of compliance of the above condition.</p> <p>However, as per enquiry with local forest staff the wildlife in the area include occasional movement of Leopards, Sloth Bear, Spotted Deer, Nilgai, Wild Pigs, etc.</p> | | | | | |
| 6. | Vegetation: | <p>ECO Class - 4 & 5 and Crown Density- 0.3-0.6</p> <p>The main species present in the area are as follows: -</p> <ul style="list-style-type: none"> i. <i>Shorea robusta</i> ii. <i>Lagerstroemia parviflora</i> iii. <i>Stereospermum xylocarpum</i> iv. <i>Careya arborea</i> v. <i>Gmelina arborea</i> vi. <i>Tectona grandis</i> vii. <i>Madhuca indica</i> viii. <i>Butea monosperma</i> ix. <i>Other Species</i> | | | | | |

| | | | | | |
|-----|--|---|-------------------------------|-------------------|----------------------------|
| 7. | Background note on the proposal: | The Bandha Coal Block Forest diversion proposal is for Open Cast Coal Mining. Out of 13 Coal seams, Seam-VIII and Seam-VII are proposed for open-cast mining. The average thickness of Seam VIII is 1.85m and situated at a minimum depth of about 56 m and average thickness of the Seam VII is 12.30m and situated at a minimum depth of 90 m. The average grade of coal is G-10. Since, depth of the Seams are not very large and having huge reserve, it was found economical to extract the same by Open Cast method of mining as per approved mining plan. The target capacity of mining is 5 MTPA. The extractable reserve is about 197.00 million Tonnes, and hence the life of mine is about 45 years. The coal evacuation is proposed through Railway Siding, SILO, Rapid Loading System and conveyor belt combination. | | | |
| 8. | Compensatory Afforestation: | Sl.No | District/Division | Tehsil | Proposed Area (Ha.) |
| | | 1 | Sagar | Sagar /Banda | 593.885 |
| | | 2 | Katni | Rithi | 50.000 |
| | | 3 | Agar-Malwa Division- Shajapur | Badod /Agar-Malwa | 165.000 |
| | | Total | | | 808.885 |
| 9. | Whether proposal involves violation of Forest (Conservation)Act, 1980 or not. If yes, a detailed report on violation including action Taken against the concerned officials: | No | | | |
| 10. | Whether proposal involves rehabilitation of displaced persons. If yes, whether rehabilitation plan has been prepared by the State Government or not: | Yes. As per part-I, 966 families are to be rehabilitated. A rehabilitation plan has already been approved by Competent Authority. | | | |
| 11. | Reclamation Plan: | The Reclamation plan is already incorporated in the approved | | | |

| | | |
|-----|---|---|
| | (If applicable, submit details and Financial allocation: | mining plan and mine closure plan. (Chapter – 8, Para 8.10) and the total financial allocation for the same is Rs. 663 Cr. |
| 12. | Details on catchment and command area under the project: | Not Applicable. |
| 13. | Cost benefit ratio: | 1: 16.53 |
| 14. | Recommendations of the Principal Chief Conservator of Forests/State Government: | The proposal is recommended by PCCF (LM) and State Govt. in Part-IV and Part-V. |
| 15. | Utility of the Project: | The project is a part of commercial coal mining initiative implemented by Government of India for making India “Aatmanirbhar” in domestic coal supply. Bandha Coal Block Forest diversion proposal is for Open Cast Coal Mining. The coal is proposed to be used for both internal consumption (Captive power plants of Aditya Birla Group) and for general commercial sale. The project would provide direct and indirect employment to approx. 5000 people. |
| 16. | Whether land being diverted has any socio cultural/religious value: | No |
| 17. | Situation w.r.t. Any P.A. | The project is neither a part of any Protected area nor falling within in 10 km of any Protected area. As per the Site inspection report of DFO Singrauli, CF Rewa and Working plan prescription, compartment nos. RF-291, 292, 293 & 391 fall in Elephant Corridor. However, there is no movements of Elephants since last 10 years. The Working plan also prescribes, in case the diversion of the said area is essentially required, an alternative Elephant Corridor may be formed. The DFO and CCF have recommended the proposal on the condition of compliance of the above condition. |
| 18. | Any other information relating to the Project: | In compartment RF-291, about 31.94 Ha land is marked as “ENCR” in the forest map. The area is marked in the Revenue department cadastral maps of Bandha village with khasra numbers & the same is under non-forest use. |

19. **Specific comments/ observation of inspecting officer**

Specific comments/ observation of inspecting officer

INSPECTION OF PROPOSED AREA FOR DIVERSION

Range- Sarai East; Beat-Bandha; Comp. -PF-317

The area is abutting to Amelia Open Cast Coal mining project, which is already in operation after Stage-II approval. The proposed area for diversion was observed to be demarcated on the ground with pillars painted in yellow and long-lat information written over it. The area is covered with natural forest of canopy density ranging from 0.3 to 0.6. The topography was generally plain with gentle gradient. The soil was sandy loam with considerable depth. The main composition of forest include-1) Shorea robusta, 2) Madhuca indica, 3) Tectona grandis, 4) Lagerstroemia parviflora, 5) Butea monosperma, 6) Carex arborea, 7) Casia fistula, 8) Diospyros melanoxylon, etc. There were a lot of regeneration of Diospyros melanoxylon, Butea monosperma and Lagerstroemia parviflora. It was observed that the enumeration was taken up by sampling method. Total number of samples were 87 of 1.00 ha each. One of the sample plots was checked for enumeration and was found to be correct. Total number of trees enumerated was 1,07,051 including the undisturbed area. However, the company authorities informed that the felling of trees would be taken up in phases as per requirement.

It is observed that the total number of trees in the proposed diversion area, enumerated as 1,07,051, is by sampling method taking about 10% of the total area for diversion. But there may be considerable variation between the said figure and actual no of trees involved in the proposal. This may be due to error in location & shape of the samples. Also, the said enumeration has been done in pit area, external dump area and also undisturbed areas which does not give clear picture of actual no. of trees proposed to be felled. Therefore, it is advisable to take up total enumeration of the trees proposed for actual felling (including area proposed for open cast mining and external dumping of overburden in the forest land) species and girth class wise to arrive at actual no. of felling of trees.

One major stream called Bandha was observed in compartment number RF-293, the same would remain undisturbed as no open cast mining is proposed in the area. However, the project

authorities informed that a catch drain would be laid all along the periphery to collect the rain water and the same would be drained in Bandha stream.

It was observed that in an area of 31.94 ha in RF-291, cultivation was in practice and a small population was also found to be staying in their individual houses built there. In the forest stock map, the same area was marked as "ENCR". The exact status of the said land was under process of determination, jointly by the Forest and Revenue departments. The representatives of the project proponent informed that a rehabilitation plan has already been approved by the competent authority.

As per enquiry with the local forest staff, the area is about 29 km away from core area of Sanjay Tiger Reserve and 18 km from its buffer zone. It is 36 km away from Sone Gharial Sanctuary and 46 km from Bagdara Sanctuary. The common wild animals found in the area are as given in column no. 05. As per the working plan, the area falls in Elephant Corridor but no movement of Elephants have been observed in the last 10 years in this area.

There were two plantations already raised in the area which are as follows:

1. Area: 150.00 ha; Raising year- 2017; Comp. No. –RF-291
Scheme: State scheme(Tendu patta);
Species planted: Tectona grandis, Terminalia chebula, Azadirachta indica, Emblica officinalis, Syzygium cumini, etc.

The area was fenced in 150.00 ha but the plantation was taken up in only 90.00 ha. It was learnt that the whole plantation would be removed at the time of open cast mining in the area.

2. Area: 29.00 ha; Raising year-2019-20; Comp. No. –RF-293
Scheme: CA for Nigahi project of NCL
Species planted: Bamboo, Gmelina arborea, Tectona grandis, Emblica officinalis, etc.

The area was fenced all around and it was learnt that 0.54 ha area of the plantation is proposed to be utilised for Railway siding for transport of extracted Coal from the instant project.

It was observed that the overburden would be dumped in non forest area as well as in forest areas. The details are as follows:

| Area Statement of External OB Dump | |
|---|-------------------|
| Compartment No | Area (Ha.) |
| RF 292 | 155.511 |
| RF 293 | 16.636 |
| PF 316 | 11.603 |
| Sub Total (A) | 183.750 |
| Non Forest Land | 166.518 |
| Sub Total (B) | 166.518 |
| Total (A+B) | 350.268 |

| Area Statement of Internal Dump / Pit | |
|--|-------------------|
| Compartment No | Area (Ha.) |
| RF 291 | 232.444 |
| RF 292 | 111.951 |
| RF 290 | 4.409 |
| RF 320 | 0.016 |
| RF 319 | 0.311 |
| RF 391 | 65.692 |
| RF 392 | 24.563 |
| PF 316 | 0.102 |
| PF 317 | 64.779 |
| RF 389 | 31.07 |
| RF 390 | 0.28 |
| Sub Total (A) | 535.617 |
| Revenue Forest | 2.846 |
| Sub Total (B) | 2.846 |
| Non Forest Land | 776.831 |
| Sub Total (C) | 776.831 |
| Total (A+B+C) | 1315.294 |

It was further learnt that in the areas where external dump is proposed, the depth of Coal seams are more than 280 meters which are proposed to be extracted by underground method of mining. The mention of the same has been made in the approved mining plan. Further, the areas where extraction of Coal is proposed to be taken up by open cast mining method, only two seams would be worked and the extraction of Coal in other deeper seams would be by underground method of mining.

The safety zone of 7.5 meter inside the proposed diversion area boundary has been proposed all around the proposed diversion area. The total area of the safety zone is 14.012 ha (Forest area-7.48 ha and non forest area-6.532 ha).

The transport of overburden to the dumping site is proposed to be done with Shovel-Dumper combination and transport of the extracted Coal from Coal face to the Railway siding is proposed to be done with Shovel-Dumper/Conveyor belt combination.

The reclamation of the mined out area is proposed to be done in phases as per the mine closure plan enshrined in the approved mining plan.

INSPECTION OF CA AREAS

Total proposed diversion of RF, PF & Revenue Forest area in the proposal is 807.917 ha. The project proponent is EMIL Mines and Mineral Resources Limited, which is a private company. Therefore, as per existing rules, the CA area has been proposed in non forest area spread over in three districts i.e. Katni, Sagar and Agar Malwa. The CA areas in the three districts are spread over at 18 locations. However, the inspections of CA areas were taken up at 12 locations which are as follows:

Date of Inspection: 13/12/2023

District: Katni; Division: Katni; Range- Rithi; Beat- Madiya;

Officers present:

1. A. K. Sinha, Dy. Director General of Forest (C), Regional Office, MoEF&CC, Bhopal.
2. Shri Gajendra Kumar Chaturvedi, Sub Divisional Forest Officer, Katni West.
3. Shri Mahesh Patel, Range Forest Officer, Rithi Range.
4. Shri Hari Prasad Burman, Dy. Range Officer.
5. Shri Ashwini Sharma, Beat Officer, Madiya

1) Area: 40.00 ha; Village- Hardwara; Khasra No.-1

The area was undulating with very scanty vegetation. There were a number of gully formation and in about 2.00 ha area it was very rocky where no plantation could be taken up. The top soil had mostly been eroded and the depth of soil was found to be moderate. As the area was having moderate slopes, soil and moisture conservation work like staggered contour trenching is very much essential for rejuvenating the area. It was observed that the villagers had already taken up staggered contour trenching work as part of soil moisture conservation in certain part of the plot under MGNREGS. **The area is very much suitable for raising mixed plantations with native species.** As the area is having high biotic pressure, the area needs to be properly fenced all around before taking up plantations. It was observed that there existed one tank which may be useful in irrigating the plants.

2) Area: 10.00 ha; Village- Simra; Khasra No.- 26

This area is adjacent to the above mentioned 40.00 ha plot. The topography and soil conditions of the area are similar to the above mentioned plot. However, there were not much of rocky outcrops found in area. As the area was having moderate slopes, soil and moisture conservation work is very much essential for rejuvenating the area. It was observed that the villagers had taken up staggered contour trenching work as part of soil & moisture conservation in certain part of the plot under MGNREGS. Further, it was noticed that there existed a pond full of water adjacent to the CA plot. Due to this moisture regime of the soil of the CA plot must be excellent and the water in the pond may also be utilised in irrigating the plantation. **The area is very**

much suitable for raising mixed plantation with native species after fencing the area all around.

District: Sagar; Division: Sagar North; Range- Sagar North;

Officers present:

1. A. K. Sinha, Dy. Director General of Forest (C), Regional Office, MoEF&CC, Bhopal.
2. Shri Chadrashekhhar Singh, Divisional Officer, Sagar North
3. Shri Shubham Jain, Range Forest Officer, Sagar North
4. Shri Virendra Kumar Tiwari, Dy. Range Officer.
5. Shri Pradeep Gauri, Forest Beat Officer, Gidhawani

1) Area: 70.13 ha; Village- Saderi; Khasra No.-379, 20 & 650

It was learnt that the area was allotted for CA in the year 2022. From there on, certain encroachments have taken place and about 7 to 8 houses have been constructed illegally in Khasra no. 379. Therefore, the project proponent should either evict the encroachment or propose a new non forest area for the CA. However, the area was undulating with most of the top soil eroded. The soil was sandy loam with moderate depth. The common species found in the area were Butea monosperma, Azadirachta indica, Diospyros melanoxylon, Holoptelea integrifolia, etc. **The area is very much suitable for raising mixed plantation with native species after fencing the area all around.**

**2) Area: 64.07 ha; Village- Gadpahara Muhal; Khasra No.- 23 & 25
Beat: Maswasi; Forest Beat Officer: Narendra Parashar**

The area was undulating with very scanty vegetation comprising of Carissa carandas, Diospyros melanoxylon Acacia catechu, etc. The area was also infested with Lantana. There were a number of gully formation which were draining into a Nala in the central part. The top soil had mostly been eroded and the depth of soil was found to be moderate. As the area was having moderate slopes, soil and moisture conservation work like staggered contour trenching is very much essential for rejuvenating the area. As the rain water from both the sides are draining into the central Nala, it is suggested to construct small check dams at suitable intervals. **The area is very much suitable for raising mixed plantations with native species.** As the area is having high biotic pressure, the area needs to be properly fenced all around before taking up plantations.

**3) Area: 100.357 ha; Village- Richoda; Khasra No.- 1
Beat: Maswasi; Forest Beat Officer: Narendra Parashar**

This area is adjacent to the above mentioned 64.07 ha plot. The topography and soil conditions of the area are similar to the above mentioned plot. As the area was having moderate slopes, soil and moisture conservation work like staggered contour trenching is very much essential for rejuvenating the area. The area is having one seasonal nala, certain number of check dams at

suitable intervals should be constructed to impound water which would be useful for the plantation and wildlife in the area during the dry season. **The area is very much suitable for raising mixed plantation with native species after fencing the area all around.**

**4) Area: 115.35 ha; Village- Makroniya Muhal; Khasra No.- 1
Beat: Pagara; Forest Beat Officer: Shri Ravindra Chaubey**

The area was located on a small hillock with very scanty vegetation comprising of Carissa carandas, Diospyros melanoxylon, Acacia catechu, etc. The area was also infested with Lantana. The top soil had mostly been eroded and the depth of soil was found to be moderate. As the area was having moderate slopes, soil and moisture conservation work like staggered contour trenching is very much essential for rejuvenating the area. It requires constructing an approach road for plantation and its monitoring. Since it is located on hillock, a watch tower cum watcher's hut is recommended for keeping a watch for prevention of fire and protections. Solar pump with borewell is also recommended for watering the plants. **The area is very much suitable for raising mixed plantations with native species.** As the area is having high biotic pressure, the area needs to be properly fenced all around before taking up plantations.

**5) Area: 52.78 ha; Village- Barkheda Khuman; Khasra No.- 667
Beat: Pagara; Forest Beat Officer: Shri Ravindra Chaubey**

This area is adjacent to the above mentioned 115.35 ha plot. The topography and soil conditions of the area are similar to the above mentioned plot. All the prescriptions mentioned for the 115.35 ha plot is recommended for the instant plot. **The area is very much suitable for raising mixed plantation with native species after fencing the area all around.**

**6) Area: 70.00 ha; Village- Jerwara; Khasra No.- 364
Beat: Sawan;**

The area was found to be on a small hillock. The foothills and the hill was covered with good forest of medium height in certain pockets. Certain areas were either blank or covered with open forest. It may be difficult to accommodate 1000 plants per ha in the area, in such case the DFO is advised to identify suitable DFL for planting the balance number of plants which could not be planted in the assigned NFL plot. Since it is located on hillock, a watch tower cum watcher's hut is recommended for keeping a watch for prevention of fire and protections. Solar pump with borewell is also recommended for watering the plants. **The area is very much suitable for raising mixed plantation with native species after fencing the area all around.**

**7) Area: 65.00 ha; Village- Jerwara; Khasra No.- 264/1
Beat: Sawan;**

This area is adjacent to the above mentioned 70.00 ha plot. The topography and soil conditions of the area are similar to the above mentioned plot. All the prescriptions mentioned for the 70.00 ha plot is recommended for the instant plot. **The area is very much suitable for raising**

mixed plantation with native species after fencing the area all around.

Date of Inspection: 23/12/2023

District: Agar Malwa; Division: Shajapur; Range-Agar; Tehsil: Badod

Officers present:

1. A. K. Sinha, Dy. Director General of Forest (C), Regional Office, MoEF&CC, Bhopal.
2. Shri Mayank Chandiwai, Divisional Forest Officer, Shajapur
3. Shri, Lakhan Singh Dy. Range Officer, Agar

**1) Area:54.41ha; Village- Bija Nagri;
Khasra No.- 2,66/1,10/1,10/2,9,5/1,4/1,3/1
Forest Beat Officer: Shri Arjun Chauhan**

The area is mostly plain with undulations. Depth of the soil is shallow. The surface was covered with small stone boulders scattered all around. The vegetation in the area is negligible and is windy. The area was infested with Lantana sporadically. The sporadic vegetation found in the area comprised of Jatropha, Ailunthus excelsa, Prosopis spicigera, Butea monosperma, etc. It was observed that at certain locations staggered contour trenches were dug by the local villagers under MGNREGS.

The area requires SMC works like Staggered contour trenching, Ponds, Gully plugging, Check dams, etc. at suitable locations. Since the area has low rainfall, it is suggested to provide a few ponds with plastic sheet at the bottom to impound water for watering the plants in lean season. Adjoining to this Solar pump with borewell may also be installed.

Since the area is at slightly higher elevation, a watch tower may also be constructed to supervise prevention of fire and other protection works.

Wildlife in the area comprise of Nilgai, Chinkara, Wild pig, Porcupine, Hares, etc.

The area is suitable for taking up plantation with a mixture of hardy local species.

**2) Area: 18.44 ha; Village- Kandari; Khasra No.- 96,98
Forest Beat Officer: Shri Arjun Chauhan**

The area is similar to the area mentioned above. There is more infestation of Lantana in the area and there is no staggered contour trenching done in the area earlier. A katcha incomplete road from Uchwas to Kandari, was found to be constructed newly and the same was not found in use. A culvert was also found to be constructed in the road. The sporadic vegetation found in the area comprised of Ailunthus excelsa, Prosopis spicigera, Butea monosperma, etc.

The area requires SMC works like Staggered contour trenching, Ponds, Gully plugging, Check dams, etc. at suitable locations. Since the area has low rainfall, it is suggested to provide a few ponds with plastic sheet at the bottom to impound water for watering the plants in lean season. Adjoining to this Solar pump with borewell may also be installed.

Wildlife in the area comprise of Nilgai, Chinkara, Wild pig, Porcupine, Hares, etc.

The area is suitable for taking up plantation with a mixture of hardy local species.

**3) Area: 23.00 ha; Village- Ghurasiya ; Khasra No.- 194
Forest Beat Officer: Shri Rakesh Kumbhkar**

The area is similar to the two mentioned above with similar terrain. The sporadic vegetation found in the area comprised of Ailunthus excelsa, Prosopis spicigera, Butea monosperma, etc.

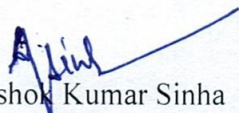
The area requires SMC works like Staggered contour trenching, Ponds, Gully plugging, Check dams, etc. at suitable locations. Since the area has low rainfall, it is suggested to provide a few ponds with plastic sheet at the bottom to impound water for watering the plants in lean season. Adjoining to this Solar pump with borewell may also be installed.

It was observed that a low voltage power line was passing over the area. The DFO may request the Electricity department to shift the same outside the CA area, if possible.

Wildlife in the area comprise of Nilgai, Chinkara, Wild pig, Porcupine, Hares, etc.

The area is suitable for taking up plantation with a mixture of hardy local species.

| | | |
|-----|---|---|
| 20 | Recommendations Of Regional Deputy Director General of Forests (C) along with detailed reasons: | The project is recommended for approval subject to the compliances of the observations made in the inspection note. |
| 21. | Regional Head shall give detailed comments on whether there are any alternatives routes/alignments for locating the project on the non-forest land: | Not Applicable. |


Ashok Kumar Sinha
Dy. Director General of Forests (C)
Regional Office, Bhopal

Field Photographs



Diversion Area



Village: Hardwara; Area 40.00 Ha.



Village Simra; Area: 10.00 Ha.



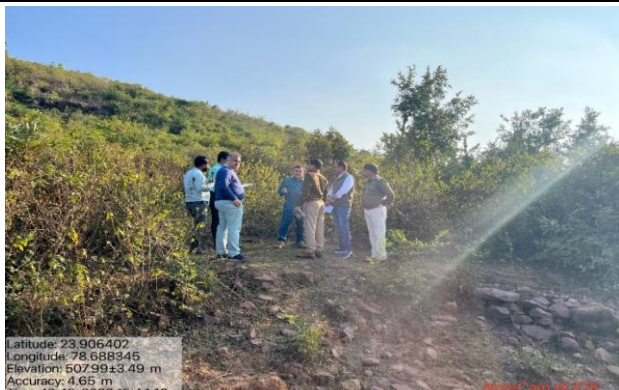
Village: Saderi; Area: 10.95,28.90,30.28 Total 70.13 Ha.



Village: Gadhpahara Muhal; Area: 43.52,20.55 Total 64.07 Ha.



Village: Richoda; Area: 100.357 Ha.



Village: Makroniya Muhal; Area: 115.735 Ha.



Village: Jerwara; Area: 31,34,70 Total 135.00 Ha.



Village: BarkhedaKhuman; Area: 52.78 Ha.



Village: Ghurasiya; Area: 23.00 Ha.



Village: Bijanagri; Area: 54.41 Ha.



Village: Kandari; Area: 18.44 Ha.