

FORM - A

Form for seeking prior approval under section 2 of the proposals by the State Governments and other authorities

PART-I

(to be filled up by user agency)

1. Project details:

- (i) **Short narrative of the proposal and project/scheme for which the forest land is required.**

Zamblidadga Dongor Iron and Manganese Ore Mine Mining Lease, bearing ML. No. 3/FeMn/79, over an area of 70.20 Ha. and approach road (existing) to Mining Lease area admeasuring 1.88 Ha. is required for the project. Total forest land proposed for diversion for the project is 72.08 Ha., situated at Village Caurem, Taluka Quepem, District South Goa, State of Goa.

Background

The Mining Lease bearing No. ML. No. 3/FeMn/79 was originally granted to Shri. Naraina Sinai Quirtonim for the period of 20 years from the date of execution of lease deed i.e. 13/12/1979 for Iron and Manganese Ore situated in Caurem village of Taluka Quepem, District South Goa, State of Goa for an area of 70.28Ha.

The Original Lessee i.e. Shri. Naraina Sinai Quirtonim expired on 22.4.1998 and his leasehold rights in respect of the aforesaid mine devolved upon his successors-in-title, viz: (a) his widow and moiety-holder, viz. Mrs. Kala Naraina Kirtani alias Kala Naraina Quirtonim; (b) daughter, viz. Mrs. Priya Prasad Navelkar married to Mr. Prasad P. Navelkar and (c) daughter, viz. Mrs. Pradnya Zoivant Poi Cano married to Mr. Zoivant M. Poi Cano. The aforesaid succession is duly



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certified by a Deed of Succession dated 13.7.1998 drawn up before the Sub-Registrar of Salcete Taluka at Margao, Goa on 21.7.1998 and recorded in his Deeds Book No. 1396 at Folio 26 (overleaf) onwards, read with Mrs. Priya's and Pradnya's marriage certificates. The successors-in-title are represented herein by Smt. Pradnya Zoivant Poi Cano alias Smt. Pradnya Zoivant Pai Cano, for self and as their duly constituted attorney.

The MMDR Act 1957 was amended with effect from 12-01-2015, firstly by way of an Ordinance and, later, by the Amendment Act which was passed on 26-03-2015 (however with retrospective effect from 12-01-2015). By the 2015 Amendment, inter-alia, Section 8A was inserted in the MMDR Act, 1957 governing the period of grant of Mining Lease for minerals other than Coal, Lignite and Atomic minerals.

In terms of the newly inserted provisions of Section 8A, Government of India vide letter no. CI 5 MMM 2015 dated 09-02-2015, issued directions for giving effect to the provisions of Section 8A by issuing a letter of intimation to the lease holders.

Vide Order no. 96/51/99-Mines/1840 dated 04-01-2022 passed under Section 8A(3), MMRD Act, 1957, (read with Section 8A(6), MMDR Act, 1957), the State Government granted extension of Mining Lease for a period from 13-12-1979 to 12-12-2029, i.e. for a term of 50 years.

The said Mining Lease bearing No. ML. No. 3/FeMn/79 did not form a part of the 88 leases which were the subject matter of the judgment dated 7/2/2018 of the Hon'ble Supreme Court in Goa Foundation v. Sesa Sterlite Ltd. & Ors., (2018) 4 SCC 218 ("Sesa Sterlite Judgment") and the Judgement dated 30.1.2020 passed in Chowgule and Company Private Limited vs Goa Foundation., Civil Appeal No. 839 of 2020.



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Location

The said mining lease falls in Toposheet 48 I/4 and is located within Latitude 15° 07' 45.289" to 15° 08' 14.725" and Longitude 74° 03' 53.092" to 74° 04' 37.508". As per duly certified DGPS plan of the Mining Lease by the Directorate of Mines and Geology, Government of Goa, area of Mining Lease is 70.20 Ha. The entire Mining Lease admeasuring an area of 70.20 Ha. falls in forest land. Additionally, there exists an approach road to the Mining Lease which is connected to the District Road. The forest land covered under the approach road is 1.88 Ha.

Geology & Mining

The total Mineral Reserves and Resources of Iron ore in the Mining Lease is about 4.336 Million Metric Tonnes and that of Manganese ore is 0.032 million metric tonnes as on 01/01/2022. Presently the total broken up area is 3.045 Ha. During the plan period (2022-2027) about 28.18 Ha. will be used for mining and allied activities and subsequently during the remaining lease period, the balance area will be utilized as per the Mining Plan.

The proposed production and dispatch capacity of this mine is 0.5 Million Tonnes Per Annum (MTPA) of Iron Ore. Hence to exploit the Resources of 4.336 Million Tonnes of Iron Ore, the entire lease area will be utilized. As the mining project is site specific and no other alternative site can be selected, the forest land area of 70.20Ha is needed to win the Mineral Resources in the lease area plus an area of 1.88 Ha of forest land is needed for approach road (existing) for the proposed project.



Sustainable Mining & Socio-economic benefit

Sustainable Mining will be carried out within the Framework of

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Sustainable Development (SDF) based on parameters such as - carrying out scientific mining, engagement of local community and through welfare programs, steps towards progressive and final mine closure as per Approved Mining Plan.

The project envisages direct employment for about 52 people and about 200 people will be indirectly employment. Total beneficiaries will be around 1000 people in and around the project. There are about 27 villages and a town in the 10Km radius buffer zone of the proposed project.

The proposed project will contribute -

- a) An estimated amount of 131.73Cr as statutory payments to the State & Central Government exchequer.
- b) In addition to the statutory payments, the local community will be benefited by means of deploying tipper and transportation activities and hence their socio-economic status will be uplifted.

Presently this application is being filed under section 2 of the Forest Conservation Act (FCA), 1980 to obtain approval for the diversion of forest land admeasuring 72.08 Ha. (70.20 of Mining Lease area Plus 1.88 Ha. for existing approach road) for non-forest purposes. The details of this application needs to be provided during onward filing of application to obtain Environmental Clearance for the subject project.

- (ii) **Map showing the required forest land, boundary of adjoining forest on a 1:50,000 scale map.**

The entire Mining Lease area falls under Forest Land. Map in the form of Toposheet of scale 1:50,000, showing the forest land required to be diverted is enclosed as **Annexure-18**.



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(iii) Cost of the project.

The investment cost of the Mine is estimated at Rs.5190 Lakhs.

(iv) Justification for locating the project in forest area.

Brief Introduction:

Zambliadga Dongor Iron and Manganese Ore Mine Mining Lease, bearing ML. No. 3/FeMn/79, located at Village Caurem, Taluka Quepem, District South Goa, State of Goa, was granted to the lessee Late Shri. Naraina S. Quirtonim and the mining lease was executed on 13-12-1979.

Justification:

1. As the mining project is site specific and can be located where the mineral deposit exists and thus no other alternative site can be selected.
2. The location of the site for Iron Mining operation is fully depend upon the nature's deposit of the mineral and geological structure of mineral deposit and the question of exploring an alternative site for the purpose does not arise.
3. The proposed project has a positive impact based on the Cost Benefit Analysis.
4. Sustainable Mining Framework shall be adopted for carrying out Mining Operation as per Approved Review & Updation of Mining Plan.
5. The Lease area of the project is mineralized having Resources of 4.336 Million Tonnes of Iron Ore and completely falls in the forest land.
6. This project will create employment and livelihood opportunities to the surrounding villages.



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(v) Cost-benefit analysis (to be enclosed).

Table B: Estimation of cost of forest diversion

S. No.	Parameters	Remarks	
1	Ecosystem services losses due to proposed forest diversion.	NPV of the forest land within the mining lease and approach road is calculated as under	
		Particulars	Estimated Cost
		Forest land area in ML (in Ha.)	70.2
		Forest land area for approach road (existing) (in Ha.)	1.88
		Total Forest land area (in Ha.)	72.08
		Average NPV rate / ha (in ₹ Lakhs)	14.37
		NPV for the Forest land in ML (in ₹ Lakhs) (72.08 Ha. x 14.37 Lakhs)	1035.78
		Total Estimated Cost (A) (in ₹ Lakhs)	1035.78
NPV of the forest land within the mining lease is calculated as under			
2	Loss of animal husbandry productivity, including loss of fodder.	Particulars	Estimated Cost
		Forest land area in ML (in Ha.)	70.2
		Existing approach road (in Ha.)	1.88
		Total Forest land area (in Ha.)	72.08



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		Average NPV rate / ha (in ₹ Lakhs)	14.37
		NPV Rate (in ₹ Lakhs)	1035.78
		10% of NPV (1035.78 x 10)/100 (in ₹ Lakhs)	103.57
		Total Estimated Cost (B) (in ₹ Lakhs)	<u>103.57</u>
3	Cost of human resettlement.	Nil	
		There is no human settlement within the mining lease area	
4	Loss of public facilities and administrative infrastructure (Roads, building, schools, dispensaries, electric lines, railways, etc.) on forest land, which would require forest land if these facilities were diverted due to the project.	Nil	
		There are no public facilities within the mining lease area	
5	Possession value of forest land diverted	Particulars	Estimated Cost
	(30% of environmental costs (NPV) due to loss of forests or circle rate of adjoining area in the district should be added as a cost component as possession value of forest land whichever is maximum)	30% of environmental costs (NPV) 1035.78 x 30% (in ₹ Lakhs) (a)	310.73
		Cost as per Circle rate (720800 x ₹ 240/- per sq.m.) (in ₹ Lakhs) (b)	1729.9
		Total Estimated Cost (C) (in ₹ Lakhs)	<u>1729.9</u>
6	Cost of suffering to	Nil	



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	oustees.	There are no oustees from the mining lease area	
7	Habitat Fragmentation Cost.	Particulars	Estimated Cost
		Forest land area in ML (in Ha.)	70.2
		Existing approach road (in Ha.)	1.88
		Total Forest land area (in Ha.)	72.08
		Average NPV rate / ha (in ₹ Lakhs)	14.37
		NPV Rate (in ₹ Lakhs)	1035.78
		50% of NPV (1035.78 x 50)/100 (in ₹ Lakhs)	517.5
		Total Estimated Cost (D) (in ₹ Lakhs)	517.5
8	Compensatory Afforestation and soil & moisture conservation cost.	Particulars	Estimated Cost
		Forest land area in ML (in Ha.)	70.2
		Existing approach road (in Ha.)	1.88
		Total Forest land area (in Ha.)	72.08
		Forest Land for CA (72.08 Ha x 2) (in Ha.)	144.16
		Estimated CA rate / ha (in ₹ Lakhs)	5
		CA for Forest land in ML (in ₹ Lakhs)	720.8
		Total Estimated Cost (E) (in ₹ Lakhs)	720.8
Total Estimated Cost (A+B+C+D+E) (in ₹ Lakhs & Crores)		4107.55	Rs.41.07 Cr



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Table C: Existing guidelines for estimating benefits of forest-diversion in CBA

S. No.	Parameters	Remarks	
		Particulars	Estimate
1	Increase in productivity attribute to the specific project.	Iron Ore Production (in Million tonnes)	3.5
		Average Grade (% Fe)	<55
		IBM Average Sale Price per tonne of Iron Ore (<55%) (in ₹)	1263
		Total Estimated Price of the Iron Ore (in ₹ Crores) (A)	442
2	Benefits to economy due to the specific project.	Particulars	Estimate
		Revenue generation to local trucks (in ₹ Crore)	131.25
		Statutory Payments	
		Royalty (15% of ASP) (in ₹ Crore)	66.31
		DMF (30% of Royalty) (in ₹ Crore)	19.89
		NMET (2% of Royalty) (in ₹ Crore)	1.33
		GIOPF (10% ASP) (in ₹ Crore)	44.21
Total (in ₹ Crore) (B)	262.98		
3	No. of population benefited due to specific project.	About 1000 (From Mine to Jetty)	



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4	Economic benefits due to of direct and indirect employment due to the project.	(i) Estimated Economic benefit through Direct Employment of 52 people <i>(in ₹ Crore)</i>	10.92
		(ii) Estimated Economic benefit through Indirect Employment of 200 people <i>(in ₹ Crore)</i>	33.60
		Estimated Total (i+ii) <i>(in ₹ Crore)</i> (C)	<u>44.52</u>
		Total no. of beneficiaries will be about 1000 people.	
5	Economic benefits due to Compensatory afforestation.	Particulars	Estimated Amount
		Forest land area in ML <i>(in Ha.)</i>	70.2
		Existing approach road <i>(in Ha.)</i>	1.88
		Total Forest land area <i>(in Ha.)</i>	72.08
		Forest Land for CA (72.08 Ha x 2) <i>(in Ha.)</i>	144.16
		Economic Benefit of CA Rs.0.88 Lakh / Ha <i>(in Crore)</i>	1.27
		Estimated Total (D)	<u>1.27</u>
Total Estimated Benefits (A+B+C+D) <i>(in ₹ Crores)</i>		<u>750.77</u>	
Cost Benefit Ratio		1:19	



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(vi) Employment likely to be generated.

The proposed mining project will engage locals from the neighbouring villages. A total of about 250 people will be engaged for the project by means of direct and indirect employment.

2. Purpose-wise break-up of the total land required:

Purpose-wise break-up of the total land required is given below:

S. No.	Particulars	Forest Land (Ha)	Non-Forest Land (Ha)
1	Area under mining	70.20	0
2	Area under approach road (existing)	1.88	0
	Total	72.08	0

3. Details of displacement of people due to the project, if any:

- (i) Number of families - Nil
- (ii) Number of Scheduled Castes/Scheduled Tribe families - Nil
- (iii) Rehabilitation plan (to be enclosed) - Nil

4. Whether clearance under Environment (Protection) Act, 1986 required? (Yes/No).

Yes

5. Undertaking to bear the cost of raising and maintenance of compensatory afforestation and/or penal compensatory afforestation as well as cost for protection and regeneration of Safety Zone, etc. as per the scheme prepared by the State Government (undertaking to be enclosed).

Undertaking is enclosed as **Annexure-19**.



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6. Details of Certificates/documents enclosed as required under the instructions.

Details of Certificates/documents as required to be enclosed under the instructions are listed in the below table:

Sr. No	Annexure Description	Annexure No.
1	Certificate for minimum use of forest land	Annexure-01
2	Statement showing details of forest area proposed for diversion	Annexure-02
3	Statement showing details of Non-forest area proposed for diversion	Annexure-03
4	Index Plan	Annexure-04
5	Key Plan	Annexure-05
6	Contour Plan	Annexure-06
7	Undertaking from project authority to bear the cost of exploitation of trees and the cost of compensatory afforestation	Annexure-07
8	Certificate- No violation of provision of FCA, 1980 occurred	Annexure-08
9	Cost benefits analysis	Annexure-09
10	Brief note on proposal and project/scheme for which forestland is required	Annexure-10
11	Certificate - Project does not affect monuments, wildlife sanctuary and national park	Annexure-11



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12	Undertaking to bear the cost of compensatory afforestation and fencing the safety zone area over one and a half times of degraded forest area	Annexure-12
13	Approved Review and Updation of Mining Plan	Annexure-13
14	Lease extension order from Directorate of Mincs and Geology, Goa	Annexure-14
15	Copy of Approval letter of Review and Updation of Mining Plan	Annexure-15
16	Affidavit from Project Authority stating the Survey Nos. covered by the lease	Annexure-16
17	Copy of Form I & XIV of survey no. 19/0 from Directorate of Settlement and Land Records	Annexure-17
18	Toposheet	Annexure-18
19	Undertaking to bear the cost of raising and maintenancce of compensatory afforestation and/or penal compensatory afforestation	Annexure-19
20	Document in support of the competence/authority (Power of Attorney)	Annexure-20
21	KML File	Annexure-21
22	DGPS Plan indicating forest area within Mining Lease	Annexure-22
23	Justification Note for locating the project in forest land	Annexure-23
24	Land use plan	Annexure-24
25	DGPS Plan showing outer boundary of Mining	Annexure-25



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	Lease	
26	Note on Transportation of minerals	Annexure-26
27	Supplementary Lease Deed	Annexure-27
28	Undertaking for payment of Compensatory Afforestation	Annexure-28
29	Undertaking for payment of Net Present Value	Annexure-29

Date: 04/03/2022

Place: Margao, Goa

P. Cano

**Pradnya Zoivant Poi Cano alias
Pradnya Zoivant Pai Cano**

For Self and on behalf of all other
heirs of Late Shri. Naraina Sinai
Quirtonim as their duly Constituted
Attorney



PART-II

(To be filled by the concerned Deputy Conservator of Forests)

State serial No. of proposal _____

7. Location of the project/Scheme:

- i) State/Union Territory
- ii) District
- iii) Forest Division
- iv) Area of forest land proposed for diversion (in ha.)
- v) Legal status of forest
- vi) Density of vegetation
- vii) Species-wise (scientific names) and diameter class-wise enumeration of trees (to be enclosed. In case of irrigation / hydel projects enumeration at FRL, FRL-2 meter & FRL-4 meter also to be enclosed.)
- viii) Brief note on vulnerability of the forest area to erosion.
- ix) Approximate distance of proposed site for diversion from boundary of forest.
- x) Whether forms part of National Park, wildlife sanctuary, biosphere reserve, tiger reserve, elephant corridor, etc. (If so, the details of the area and comments of the Chief Wildlife Warden to be annexed).
- xi) Whether any rare/endangered/unique species of flora and fauna found in the area- if so, details thereof.
- xii) Whether any protected archaeological/heritage site/defence establishment or any other important monument is located in the area. If so, the details thereof with NOC from competent authority, if required.

8. Whether the requirement of forest land as proposed by the user agency in col. 2 of Part-I is unavoidable and barest minimum for the project. If no, recommended area item-wise with details of alternatives examined.

9. Whether any work in violation of the Act has been carried out (Yes/No). If yes, details of the same including period of work done, action taken on erring officials. Whether work in violation is still in progress.

10. Details of compensatory afforestation scheme:

i) Details of non-forest area/degraded forest area identified for compensatory afforestation, its distance from adjoining forest, number of patches, size of each patch.

ii) Map showing non-forest/degraded forest area identified for compensatory afforestation and adjoining forest boundaries.

iii) Detailed compensatory afforestation scheme including species to be planted, implementing agency, time schedule, cost structure, etc.

iv) Total financial outlay for compensatory afforestation scheme.

v) Certificates from competent authority regarding suitability of area identified for compensatory afforestation and from management point of view. (To be signed by the concerned Deputy Conservator of Forests).

11. Site inspection report of the DCF (to be enclosed) especially highlighting facts asked in col. 7 (xi, xii), 8 and 9 above.

12. Division/District profile:

i) Geographical area of the district.

ii) Forest area of the district.

iii) Total forest area diverted since 1980 with number of cases.

iv) Total compensatory afforestation stipulated in the district/division since 1980 on

(a) forest land including penal compensatory afforestation,

(b) non-forest land.

v) Progress of compensatory afforestation as on (date) _____
on

(a) forest land

(b) non-forest land.

13. Specific recommendations of the DCF for acceptance or otherwise of the proposal with reasons.

Signature

Name

Official Seal

Date:- _____

Place:- _____

PART-III

(To be filled by the concerned Conservator of Forests)

14. Whether site, where the forest land involved is located has been inspected by concerned Conservator of Forests (Yes/No). If yes, the date of inspection & observations made in form of inspection note to be enclosed.

15. Whether the concerned Conservator of Forests agree with the information given in Part-B and the recommendations of Deputy Conservator of Forests.

16. Specific recommendation of concerned Conservator of Forests for acceptance or otherwise of the proposal with detailed reasons.

Signature
Name
Official Seal

Date: - ____ - ____ - ____
Place: - ____ - ____ - ____

PART-IV

(To be filled in by the Nodal Officer or Principal Chief Conservator of Forests or Head of Forest Force department)

17. Detailed opinion and specific recommendation of the State Forest Department for acceptance or otherwise of the proposal with remarks.

(While giving opinion, the adverse comments made by concerned Conservator of Forests or Deputy Conservator of Forests should be categorically reviewed and critically commented upon).

Signature
Name & Designation
Official Seal

Date: - _____
Place: - _____

PART- V

(To be filled in by the Secretary in charge of Forest Department or by any other authorised officer of the State Government not below the rank of an Under Secretary)

18. Recommendation of the State Government:

(Adverse comments made by any officer or authority in Part-B or Part-C or Part-D above should be specifically commented upon)

Signature
Name
Official Seal

Date:- _____

Place:- _____

INSTRUCTIONS (for Part-I)

1. The project authorities may annex a copy of the approved project/plan in addition to filling Col. 1 (i) e.g. IBM approved mining plan for major minerals/CMPDI plan with subsidence analysis reports, etc.
2. Map has to be in original and duly authenticated jointly by project authorities and concerned DCF – Col. 1 (ii).
3. Complete details of alternative alignments examined especially in case of project like roads, transmission lines, railway lines, canals, etc. to be shown on map with details of area of forest land involved in each alternative to be given - Col. 1 (iii).
4. For proposals relating to mining, certificate from competent authority like District Mining Officer about non-availability of the same mineral in surrounding/nearby non-forest areas.
5. In case the same company/individual has taken forest land for similar project in the State, a brief detail of all such approvals/leases be given as an enclosure along with current status of the projects.
6. The latest clarifications issued by the Ministry under Forest (Conservation) Act, 1980 may be kept in mind. In case such information do not fit in the given columns, the same shall be annexed separately.

GENERAL INSTRUCTIONS: -

1. On receipt of proposal, Nodal Officer shall issue a receipt to the user agency indicating therein the name of the proposal, user agency, area in hectare, serial number and date of receipt.
2. If the space provided above is not sufficient to specify any information, please attach separate details/documents.
3. While forwarding the proposal to the Central Government, complete details on all aspects of the case as per Form prescribed above read with the clarifications issued by the Ministry of Environment and Forests, Government of India, New Delhi should be given. Incomplete or deficient proposals shall not be considered and shall be returned to the State Government in original.
4. The State Government shall submit the proposal to the Central Government within stipulated time limits. In case of delay while forwarding, the reasons for the same to be given in the forwarding/covering letter.