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**DIVERSION PROPOSAL FOR JODA EAST IRON MINE**  
**OF**  
**TATA STEEL LIMITED**

**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	<b>Project details</b>	:	<p>The Joda East Iron &amp; Manmora Manganese Mine of M/s Tata Steel Ltd. was originally granted by the then Maharaja of Keonjhar Estate over an area of 2.59 Sq. mile for a period of 30 years from 1-7-1925 to 30-6-1955. The Lease Deed was executed and registered vide letter No. 9 of 1926 – 27 dt. 28-4-1926 (copy enclosed) Annexure-I</p> <p>The 1st renewal was granted by Mining &amp; Geology Department, Government of Orissa vide Order No. 6020 MG-III (A) MG -21/57 dated 21-8-1957 over an area of 2.59 Sq. mile for 30 years from 1-7-1955 to 30-6-1985. Lease Deed was executed and registered vide No. 1487 of 1965 dated 19-7-1965 (copy enclosed) Annexure -II</p> <p>The 2nd Renewal was granted by Mining &amp; Geology Department, Government of Orissa vide Order No. III (A) SM-7/97-7533/ SM dated 21-8-1997 over an area of 671.093 ha for 20 years from 1-7-1985 to 30-6-2005. Lease Deed was executed and registered vide No. 23 of 1998 dated 20-1-1998 (copy enclosed) Annexure-III</p> <p>The period of Mining Lease was valid from 1.7.1985 to 30.6.2005. The Company has applied for Renewal of Mining Lease on 27.04.2004 as provided under Rule 24A (1) of Mineral Concession Rules, 1960 (copy enclosed) Annexure-IV</p> <p>The location of the Joda East Iron Mine &amp; Manmora Manganese Mine falls in Survey of India's Topo-sheet No. 73 F/8 and 73 G/5 with latitude between 21° 59' N and 22° 03' N and longitude between 85°25' E and 85° 27' E.</p> <p>Tata Steel is planning and implementing a growth plan, which is expected to increase the steel making capacity at Jamshedpur. The Steel Company has invested large amount to develop the mine and other infrastructures including plants and machineries.</p> <p>The project is situated under Joda Forest section, Champua Forest Range of Keonjhar Forest Division, in the state of Orissa. The lease area is coming under Baitarani Reserve Forest, Khesra Forest, DLC forest as well as Government Non-forest land and tenanted land.</p>
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i) Short narrative of the proposal and project/scheme for which the forest land is required.

Joda East Iron Mine consists of 671.093 ha lease area.

The details of lease area are as under:

R.F.	..	520.727 ha	} 608.906ha
K.F.	..	0.927 ha	
D.L.C.	..	87.252 ha	
N.F land	..	62.187 ha	
Total		<u>671.093 ha</u>	

The Lease has been obtained for mining of Iron & manganese Ore. The Iron Ore produced from this mine will be supplied to lessee's Steel Plant at Jamshedpur.

MoEF had granted Stage-II clearance for diversion of 521.622 ha. of Forest Land (133.309 ha. broken prior to 1980 plus 388.313 ha. granted afresh) vide letter No. 8-32/93 FC dated 16.1.1997. Out of 388.313 ha freshly granted forest area, 378.123 ha. has already been diverted and utilised for mining and ancillary purposes, 1.185 ha. has been used for magazine and 9.005 ha left out for greenery and Green Belt.

Subsequently in the year 1998, out of the total non forest area of 141.552 ha, an area of 87.252 ha has been included in DLC report of Keonjhar District. Out of the total DLC forest land of 87.252 ha, 54.470 ha was utilised prior to its conversion into DLC forest and an area of 0.357 ha has been used in safety zone. Thus total area of DLC Forest land utilised comes to 54.827 ha, leaving the balance area of 32.425 ha as unbroken DLC reported forest area.

The company applied for renewal of mining lease on 19.4.2004 and also submitted diversion proposal in Form-B to the state Forest Department.

The proposal after being recommended by all the concerned authorities, MoEF has granted in-principle approval (stage-I) over 567.087 ha of forest land including DLC reported forest land of 54.470 ha vide letter dated 2nd June 2006 with conditions for compliance.

MoEF vide letter dated 23rd Aug 2006 modified the earlier condition No.(viii) of



		Stage-I grant order Dated 2.6.2006. In the modified letter issued on 23.8.2006 ,MoEF has directed for submission of fresh diversion proposal over 32.425 ha of DLC forest land. The said letter dated 23.8.06 is annexed as Annexure-X. Accordingly the company is submitting this proposal.
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ii)	Map showing the required forest land, boundary of adjoining forest on a 1:50,000 scale map.	:	Location Plan bearing Drg. No. JGM/L&L/18/04 showing the details is annexed as drawing plate- I.
iii)	Cost of the project.	:	Total cost of expansion of Joda East Iron Mine project is approx. Rs.75 Crores.
iv)	Justification for locating the project in forest area	:	Joda East Iron Mine is situated over 671.093 ha ,of which 608.906 ha is forest land including DLC forest. The MoEF has granted Forest clearance over 567.087ha and has advised to obtain fresh forest clearance over 32.425 ha of DLC Forest land. Accordingly this proposal has been formulated. It is essential to extend mining operation into this area to sustain the level of production from Joda East Iron Mine in order to meet the increased raw material requirement of our Steel Works at Jamshedpur. The reserves in this area contain a large extent of fines deposit which needs to be mined to supply the same to the pelletisation plant being set up at Jamshedpur at a substantial investment. The aforesaid DLC forest area of 32.425 ha lies in mineralised zone adjacent to the present active mining.
v)	Cost benefit analysis	:	Furnished vide Annexure-A
vi)	Employment likely to be generated	:	In the Joda East Iron Mine, the total man power is 800.



2.	Purpose-wise break-up of the total land required (already broken & to be broken). Details given below and indicated in the Land Use Plan bearing Drawing No JGM/L&L/021/06 is annexed as Drawing Plate IV.
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## (A) Future Requirement of Forest and Non-Forest land

Sl. No	Pattern of utilisation	Forest Area in Hactares			Non-Forest area(ha)
		R.F	K.F	D.L.C	
a	Mining	--	--	32.425	9.024
b	Storing of Mineral/ ore.	--	--	--	--
c	Dumping O.B.	--	--	--	--
d	Storing of tools and machineries.	--	--	--	--
e	Construction of building, Power Station, Workshop etc.	--	--	--	--
f	Township/ Housing Colony.	--	--	--	--
g	Construction of Road, Rope Way, Rly. Line etc.	--	--	--	--
h	Magazine	--	--	--	--
Total:				32.425	9.024

(B) Safety Zone Area	Safety zone area in this proposal will remain the same as in the earlier proposal over 567.087 ha for which Stage-I approval has been granted by MoEF vide letter No. 8-32/93-FC(vol.II) dated 2nd June 2006. Plan showing details of Safety Zone area having drawing No. JGM/L&L/019/04 dated 09.04.2004 is approved by MoEF and is annexed as Drawing Plate V.
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## JODA EAST IRON & MANMORA MANGANESE MINE

### 1 LEASE AREA 671.093 Ha

a) Reserve Forest	520.727 Ha
b) Khesra Forest	0.927 Ha
c) DLC Forest	87.252 Ha
TOTAL FOREST	608.906 Ha
d) Non-Forest	62.187 Ha
TOTAL LEASE AREA	671.093 Ha

### 2 DETAILS OF LAND USE PATTERN ALREADY DIVERTED (STAGE-II) BY GOI, MOEF VIDE LETTER NO.F.No.8-32/1993 FC (Vol II) DTATED 24.9.2007 AND BALANCED FOREST LAND (DLC) APPLIED FOR

Sl	Land use pattern	Diverted area in Ha (by GOI, MoEF)				Balanced Forest area in Ha(DLC) applied for			
		R.F.	K.F.	DLC	Total	R.F.	K.F.	DLC	Total
a)	Mining	400.190		3.013	403.203			32.425	32.425
b)	Storing Mineral/ore	4.486		22.733	27.219				
c)	Dumping over burden	70.736		4.872	75.608				
d)	Storing tools & machineries	20.338		3.100	23.438				
e)	Construction of building, power station, workshop etc.	7.960		9.260	17.220				
f)	Township / colony				0.000				
g)	Road, roapway, railway line	7.722		4.614	12.336				
h)	Magazine	1.185		6.878	8.063				
	<b>Total</b>	<b>512.617</b>		<b>54.470</b>	<b>567.087</b>			<b>32.425</b>	<b>32.425</b>
	Safety Zone	8.110	0.101	0.357	8.568				
	Greenery		0.826		0.826				
	<b>Grand Total</b>	<b>520.727</b>	<b>0.927</b>	<b>54.827</b>	<b>576.481</b>			<b>32.425</b>	<b>32.425</b>

### 3 ABSTRACT OF THE FOREST AREA ALREADY DIVERTED & BALANCE AREA SOUGHT FOR DIVERSION

Sl	Forest Land	Total area (Ha)	Already diverted	Safety zone / Greenery	Total	Balance Forest land applied for
a)	Reserve Forest	520.727	512.617	8.110	520.727	
b)	Khesra Forest	0.927		0.927	0.927	
c)	DLC Forest	87.252	54.470	0.357	54.827	32.425
	<b>Total</b>	<b>608.906</b>	<b>567.087</b>	<b>9.394</b>	<b>576.481</b>	<b>32.425</b>

NOTE # Out of total forest land of 608.906 ha within the lease, 576.481 ha (567.087 of diverted area + 9.394 ha Safety Zone and Greenery) has been approved by GOI, MoEF vide letter no. 8-32/1993 FC(Vol-II) dated 24.09.2007.

# Balance forest land over 32.425 ha (608.906 ha - 576.481 ha) has been asked for diversion in this proposal as per condition (ii) of Stage-I (modified) approval vide letter no.F.No. 8-32/1993 FC (Vol-II) dated 23.08.2006.



3	Details of displacement of people due to the project, if any	N.A		
(i)	Number of families.	N.A		
(ii)	Number of Scheduled Castes/Scheduled Tribe families.	N.A		
(iii)	Rehabilitation plan. (to be enclosed)	N.A		
4	Whether clearance under Environment (Protection) Act, 1986 required? (Yes/No).	Yes Detail in Annexure-B		
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).	Furnished vide Annexure-V		
6	Details of Certificates/documents enclosed as required under the instructions.	<b>Description of Documents</b>	<b>Annexure</b>	<b>Page No.</b>
		Copy of 1 <sup>st</sup> Renewal of Mining lease executed on 28.03.1965.	Annexure-II	Submitted in separate copy
		Copy of 2 <sup>nd</sup> Renewal of Mining lease deed executed on 18.12.1997.	Annexure-III	
		Copy of Renewal of Mining lease application letter No. MD/LO/593/537 dated 19.04.2004 with enclosures	Annexure-IV	



	Undertakings	Annexure-V	
	Phased Reclamation and Afforestation Scheme and programme.	Annexure-VI	
	Copy of letter No. 314(3)/2003-MCCM(C)/MP-6 dt.7.6.2004 of IBM along with a copy of Mining plan	Annexure-VII	Submitted in separate copy
	Copy of stage-I clearance (grant order) dated 2 <sup>nd</sup> June 2006	Annexure-VIII	
	TWP order copy dated 26 <sup>th</sup> June 2006	Annexure-IX	
	Copy of stage-I clearance (modification order) dated 23 <sup>rd</sup> August 2006	Annexure-X	
	Copy of NOC for air from OSPCB dated 25.2.06 and renewal applications .	Annexure-XI	
	Copy of NOC for water from OSPCB dated 25.2.06 and renewal applications.	Annexure-XII	
	Mine closure plan	Annexure-XIII	Submitted in separate copy
	Write up Biological Reclamation	Annexure-XIV	
	Cost estimate for reclamation and afforestation of 1 ha.	Annexure-XV	
	Land Schedule of DLC land	Annexure-XVI	
	Land Schedule over 32.425 ha of DLC land	Annexure-XVI-A	
	Boundary description over 32.425 ha of DLC land.	Annexure-XVI-B	
	Copy of Aam sabha	Annexure-XVII	
	Copy of Stage-II clearance dated 24.09.2007	Annexure-XVIII	
	Copy of power of Attorney	Annexure-XIX	
	Copy of Abstract of tree enumeration	Annexure-XX	



	Allotment of Non-forest Govt. land over 32.425 ha. vide Collector, Keonjhar's letter No. 44/Rev. dt. 3.1.2008 and No. 57 /Rev dt. 4.1.2008	Annexure-XXI	
	Allotment of Non-forest Govt. land over 32.425 ha for Compensatory Afforestation alongwith suitability certificate.	Annexure-XXI-A	
	Site inspection report of DCF	Annexure-XXII	
	Compensatory Afforestation Scheme.	Annexure-XXIII	
	Parameter for Evaluation of benefit not withstanding loss of forest.	Annexure-XXIV	
	Parameter for Evaluation of loss of Forest	Annexure-XXIV-A	
	Summery of Cost Benefit Analysis.	Annexure-XXIV-B	
	Letter regarding change of name from The Tata Iron & Steel Co. Ltd to Tata Steel Limited	Annexure-XXV	
	Brief profile of lessee	Annexure-XXVI	
	Condition laid down in stage-II & compliance.	Annexure-XXVII	

*copy of proceedings of  
Public hearing held  
on 30.8.2004*

*Annexure-  
XXVIII*



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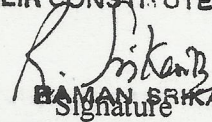
## DRAWING PLATES

Plate No.I	Location Plan showing Mining Lease area and forest land required for the project (Topo Sheet No 73 G/5 & 73 F/8.) in 1:50,000 scale Drawing No JGM/L&L/18/04 dated 09.04.2004
Plate No.II	Plan showing lease area of Joda East Iron Mine and Manmora Mine (Scale - 16" = 1 mile) Drawing No. MD /LO/6/2003 dated 05.08.2003
Plate No.III	Land Use Plan for forest and non-forest area already broken up/utilised (Scale - 1:4000) Drawing No JGM/L&L/DRG-17/04 dated 18.03.2004
Plate No.IV	Land Use Plan for forest and non-forest area for future requirement. (Scale - 1:4000) Drawing No JGM/L&L/021/04 dated 03.10.2006
Plate No.V	Plan showing the safety zone area (Scale - 1:4000) Drawing No. JGM/L&L/09/04 dated 09.04.2004

No. VI Plan showing Non-forest land area for Comp. Afforestation over 32.425 ha. (Scale - 1:4000)

No. VII Surface Geological Plan (Scale - 1:4000) Drawing No. JCO/13/013/2009 dt. 16.3.09.

FOR AND ON BEHALF OF  
TATA STEEL LIMITED  
BY THEIR CONSTITUTED ATTORNEYS

  
RAMAN BRIKANTH  
Signature

(Name in Block letters)

Designation

Address (of User Agency)

Date: - 20/11/06

Place: - Nagamundi

State serial No. of proposal 207/06 dt. 21-12-2006  
(To be filled up by the Nodal Officer with date of receipt)