

F. No. J-11011/348/2005- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan,
CGO Complex, Lodhi Road
New Delhi – 110 003

E-Mail : pb.rastogi@nic.in
Telefax : 011-24367668

Dated 7th August, 2007

To, ✓
M/s Steel Authority of India Ltd.
IISCO Steel Plant
Burnpur – 713325
West Bengal

E-mail : iisco@sancharnet.in / sailco@vsnl.com / vmshastri@hotmail.com
Fax No. : 0341 – 2241506, 2240704/011-24367015

Subject : Expansion of IISCO Steel Plant (ISP) (0.55 MTPA to 2.50 MTPA), Rebuilding of Coke Oven Battery No.10 and setting up of a Captive Power Plant (87.5 MW) and other facilities at Burnpur, Asansol, Burdwan, West Bengal by M/s Steel Authority of India Ltd.(SAIL) – Environmental clearance reg.

Sir,
Kindly refer your letter no. ECD/EIA/100 dated 12th December, 2006 alongwith project documents including Questionnaire, Feasibility Report and EIA/EMP and subsequent clarifications furnished vide communication dated 30th April, 2007 and 11th May, 2007 regarding above mentioned project.

2.0 The Ministry of Environment and Forests has examined your application. It is noted that the proposal is for the expansion of IISCO Steel Plant (ISP) (0.55 MTPA to 2.50 MTPA) and Rebuilding of Coke Oven Battery No. 10 at Burnpur, Asansol, Burdwan, West Bengal by M/s Steel Authority of India Ltd. (SAIL) for seeking prior environmental clearance as per EIA, 1994 under the provision of Section (Para) 12 of EIA Notification, 2006. The expansion of the project will be carried out within the existing 1165.58 ha. However, 148.2 ha additional land will also be acquired for railway lines & dump area. No national parks, wildlife sanctuary and reserve forests are located within 10 km radius of the project site. Following are the details :

S. N.	Plant / unit	Existing facilities	Facilities during expansion
1.	Coke Oven	Battery 7 existing Battery 8 & 9 exist	Rebuilding of battery No. 10. Phasing out of Battery no. 9
2.	Sinter Plant (SP)	No SP Exists	SP will be installed.
3.	Blast Furnace (BF)	BF 1,3 & 4 will be phased out. BF 2 – under rebuilding	Rebuilding of BF no 2 New BF 5 will be installed.

4.	Pig Casting Machine (PCM)	4 PCM exists Producing 183,600 TPA cold pigs	Additional 2 PCM will be added to produce total 308,200 TPA cold pigs.
5.	Slag Granulation Plant (SGP)	One SGP exists	Additional one SGP will be installed.
6.	Basic Oxygen Furnace (BOF)	No such facilities existing. 2 Twin Hearth Furnace exist.	3 BOF will be installed Twin Hearth furnace will be phased out
7.	Secondary Refining Facilities (SRF) : Laddle Furnace(LF)	No such facility presently	2 SRF : LF will be installed
8.	Continuous Casting Facilities	No such facility presently	100% production through CCF route.
9.	Beam Blank Caster	-do-	One 4 strands caster machine will be installed
10.	Billet Caster	-do-	New Caster of 6 Strand
11.	Rolling Mill	Blooming Mill, Billet mill and Soaking pit exists	All will be phased out.
12.	Blooming Mill Billet Mill & soaking pits	Exists	Existing Mill to produce 1,50,000 TPA
13.	Heavy structural mill (HSM)	Exists	Existing Mill to produce 1,80,000 TPA
14.	Merchant and rod mill		
15.	New heavy section mill	No such facility	Existing Mill to produce 1,00,000 TPA
16.	New wire and rod mill	No such facility	Existing Mill to produce 1,250,000 TPA
17.	Dolomite Plant	Existing will be phased out	New will be installed
18.	Lime calcination plant	Existing is closed	New will be installed
19.	Oxygen Plant	Existing	Additional OP will be installed on BOO
20.	Power Plant	3 x 40 MW	Additional 3 x 200 TPH gas fired boiler. 3 x 60 % TPH gas fired boiler.

Following will be the major raw material requirement :

Item	Quantity (TPA)
Iron ore fines	3,154,428
Dolomite	3,44,627
Lime stone	2,41,893
Iron ore lump	10,01,683
Quartzite	1,13,894
Coal	11,55,976
DRI and Ferro alloys	4,53,352
Iron ore for SMS	27,351

Following are the details of finished products :

S.N.	Products	Annual production (TPA)
1	Pig Iron	3,08,200
2	Billets	91,900
3	Heavy Structural	6,00,000
4	Bars & Wire rods	1,25,000
5	Heavy Structural from existing mill	150,000
6	Light Structural from existing mill	1,00,000
7	Bars & Rods from existing mill	1,80,000

3.0 ESP to the new sinter plant, Gas cleaning system of ventury scrubber to BF shop, pulse jet type bag filter to lime and dolomite plant, de-dusting system at material transfer points, fume extraction system will be installed to control emissions below 50 mg/NM³. Tar, NH₃ generated in the process will be cleaned. H₂S recovery from coke oven (recovery type) will be ensured. Low NOx burners will be installed in re-heating furnace and boilers. Dry fog dust suppression system will be provided to control fugitive emissions from Coke oven and Blast furnace and by-product fuel gases will be used for steam and power generation. Total water requirement from Damodar river will be 23 MGD. Treatment facilities for the treatment of effluent and storm water will be provided and treated wastewater will be used for green belt development. Reverse Osmosis plant will be installed. BF slag will be either sold or used for road construction. BF sludge and BOF sludge will be partly used in sinter plant and partly dumped. BOF slag will be reused in BF, sinter plant as well as ballast. All the BF fume dust, BOF scale, Mill scales, Lime dust, Dolo dust, Burnt lime, Pig casting machine sludge etc. will be reused in sinter plant. All the Mill scrap and Skull/scrap will be reused in BOF plant. Total cost of the project is Rs. 9,592.00 Crores.

4.0 Public hearing meeting was held on 20th February, 2007

5.0 After considering the facts mentioned above and with due diligence, the Ministry of Environment and Forests accords environmental clearance under the provisions of EIA Notification, 2006 subject to strict compliance to the following specific and general conditions :

A. Specific Conditions :

- The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The West Bengal Pollution Control Board (WBPCB) may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.
- Low NOx burners shall be provided in re-heating furnace and boilers to control NOx emissions. Continuous stack monitoring facilities for all the major stacks and adequate air pollution control systems shall be provided to control air emissions within 50 mg/Nm³ and reports submitted to the WBPCB & CPCB.
- Ambient air quality monitoring stations shall be set up as per statutory requirement in consultation with the WBPCB. Ambient air quality including ambient noise levels shall

not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and shall be carried out regularly in consultation with WBPCB and data submitted to the CPCB and WBPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated time to time.

- iv) In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. ESP to the new sinter plant, ventury scrubber to BOF shop, pulse jet type bag filter to lime and dolomite plant and bag filters in material handling areas and material transfer points shall be provided. A fume extraction system comprising suction hood, associated duct, cyclone/scrubber shall be provided to control dust generated during secondary refining. De-dusting system shall be provided at different material transfer points. Tar, NH_3 shall be cleaned in the process and H_2S recovery from the coke oven shall be ensured. By-product fuel gases shall be used for steam and power generation.
- v) Dry fog dust suppression system shall be provided to control fugitive emissions. Further, specific measures like water sprinkling around the coal stockpiles and asphaltting or concreting of the roads shall be done to control fugitive emissions. Secondary fugitive emissions shall be controlled within the prescribed limits, regularly monitored and records maintained. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.
- vi) Total requirement of the water from River Damodar shall not exceed 23 MGD and prior 'Permission' for the total water requirement shall be obtained from the concerned Department before commissioning the project. Effluent Treatment Plant (ETP) shall be installed for the treatment of process water. During the rebuilding of coke oven battery, BOD plant shall be provided for the disposal of liquid effluent. The wastewater generated from blast furnace (BF) shall be treated in clarifier and reused in the system. Blow down from BF re-circulation system shall be reused in SGP as make up water. Blow down from BOF re-circulation system shall be reused in new SMS slag yard. Reverse Osmosis plant shall be installed. All the wastewater generated shall be treated, recycled and reused either in the process or for dust suppression or green belt development. No wastewater shall be discharged outside the factory premises and 'Zero' discharge shall be adopted. Domestic effluent shall be treated in sewage treatment plant (STP).
- vii) All the BF slag shall be either sold or used for road construction. BF sludge and BOF sludge shall be partly used in sinter plant and partly dumped. BOF slag shall be reused in BF, sinter plant as well as ballast. All the BF fume dust, BOF scale, Mill scales, Lime dust, Dolo dust, Burnt lime, Pig casting machine sludge etc. shall be reused in sinter plant. All the mill scrap and skull/scrap shall be reused in BOF plant. Blast furnace gas, Coke oven gas, BOF gas, Liquid Oxygen, LPG, shall be used in the power plant, Tar sludge, BOD plant sludge and waste oil shall be generated during the rebuilding of coke oven battery shall be properly disposed off as per the Hazardous Waste (Management & Handling) Rules, 1989 and subsequent amendments.
- viii) The prescribed emission standards for coke oven plants as notified vide notification no. GSR 46 (E) dated 3rd February, 2006 shall be complied with.
- ix) All the environment management measures given in the EIA/EMP shall be implemented and complied with.

- x) Out of total 1,165.58 ha., green belt shall be developed in 493 ha. area within and around the plant premises as per the CPCB guidelines in consultation with DFO.

B. General Conditions :

- i. The project authority shall adhere to the stipulations made by West Bengal Pollution Control Board (WBPCB) and State Government.
- ii. No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.
- iii. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- v. All the recommendations mentioned in the Corporate Responsibility for Environmental Protection (CREP) of CPCB issued for the steel plants shall be implemented.
- vi. The company shall undertake eco-development measures including community welfare measures in the project area.
- vii. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- viii. Proper house keeping and adequate occupational health programmes shall be taken up.
- ix. A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.
- x. As mentioned in the EIA/EMP, Rs. 480.00 Crores and Rs. 36.60 Crores allocated towards the capital cost and recurring cost/annum environmental pollution control measures shall be judiciously used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.
- xi. The Regional Office of this Ministry at Bhubaneswar / CPCB / WBPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data alongwith statistical interpretation shall be submitted to them regularly.
- xii. The Project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
- xiii. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available

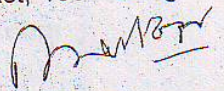
with the W. B. Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bhubaneswar.

6.0 The Ministry or any other competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions shall be monitored by the Regional Office of this Ministry located at Bhubaneswar.

7.0 The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.

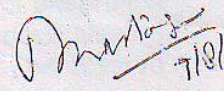
8.0 Any other conditions or alteration in the above conditions shall have to be implemented by the project authorities in a time bound manner.

9.0 The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


(Dr. P. B. Rastogi)
Additional Director

Copy to :-

1. The Secretary, State Department of Environment, Govt. of West Bengal, Kolkata, West Bengal.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
3. The Chairman, West Bengal Pollution Control Board, Parivesh Bhawan, 10A Block-LA Sector-III, Salt Lake, Kolkata - 700091, West Bengal.
4. The Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment and Forests A-3 Chandrashekharapur, Bhubaneswar - 751 023, Orissa
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Guard File.
7. Monitoring File.
8. Record File.


(Dr. P. B. Rastogi)
Additional Director

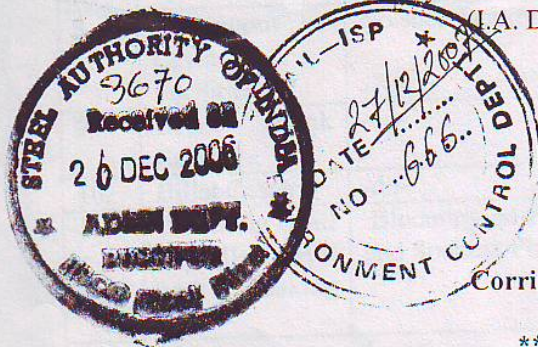
AGM (Environmental)
P.C

F. No. J-11011/348/2006-IA II (I)

Government of India

Ministry of Environment and Forests

(I.A. Division)



Corrigendum

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi - 110 003
E-mail : hsmalviya@gmail.com
Telephone: 011: 2436 7076
Dated 22nd November, 2007

Sub : Expansion of IISCO Steel Plant (ISP) (0.55 MTPA to 2.5 MTPA), Rebuilding of Coke Oven Battery No.10 and Setting up of a Captive Power Plant (87.5 MW) and other facilities at Burnpur, Asansol, Burdwan, West Bengal by M/s. Steel Authority of India Ltd. (SAIL) – Environmental Clearance reg.

In Para 2 of the Environmental Clearance letter issued to M/s. Steel Authority of India Ltd. vide ministry's F.No. J-11011/348/2005 – IA II (I), Dated 7th August 2007, the details of plant/units, raw materials and finished products shall be read as follows:

S. N.	Plant / Unit	Existing Facilities	Facilities during expansion
1.	Coke Oven	Battery No. 7 closed Battery No. 8 & 9 exist	Rebuild battery No. 10. Phasing out if Battery no. 9 One additional 67 ovens 7 m tall battery with coke dry quenching.
2.	Sinter Plant (SP)	No SP Exists	SP will be installed.
3.	Blast Furnace (BF)	BF-1, 3 & 4 will be phased out. BF 2 – under rebuilding	Rebuild BF no. 2 New BF 5 will be installed.
4.	Pig Casting Machine (PCM)	4 PCM exists. Producing about 183,600 TPA cold pigs.	Additional 2 PCM will be added to produce total 308,200 TPA cold pigs.
5.	Slag Granulation Plant (SGP)	One SGP exists.	Additional one SGP will be installed.
6.	Basic Oxygen Furnace (BOF)	No such facilities existing. 2 Twin Hearth Furnace exist.	3 BOF will be installed. Twin Hearth Furnaces will be phased out.
7.	Secondary Refining Facilities (SRF): Laddle Furnace (LF)	No such facility presently..	2 SRF : LF will be installed.

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S. N.	Plant / Unit	Existing Facilities	Facilities during expansion
8.	Continuous Casting Facilities	No such facility presently.	100% production through CCF route.
9.	Beam Blank Caster	-do-	One 4 strands caster machine will be installed.
10.	Billet Caster	-do-	New Caster of 6 strand.
11.	Blooming Mill , Billet Mill and Soaking Pits	Blooming Mill , Billet Mill and Soaking Pit exist.	All will be phased out.
12.	Heavy Structural Mill (HSM)	Exists	Existing mill to produce 150,000 TPA
13.	Merchant and Rod Mill	Exists	Existing mill to produce 180,000 TPA
14.	Light Structural Mill	Exists	Existing mill to produce 100,000 TPA
15.	New Heavy Section Mill	No such facility.	A new mill to be installed with capacity 600,000 TPA
16.	New Wire & Rod Mill	No such facility.	A new mill to produce 1,250,000 TPA
17.	Dolomite Plant	Existing will be phased out	New will be installed.
18.	Lime Calcination Plant	Existing is closed	New will be installed.
19.	Oxygen Plant	Existing	Additional OP will be installed on BOO.
20.	Power Plant	3 x 40 MW	Additional 3 x 200 TPH gas fired boiler. 3X60% TPH gas fired boiler.

Following will be the major raw material requirement:

Item	Quantity (TPA)
Iron Ore Fines	3154428
Dolomite	346627
Limestone	733657
Iron Ore Lump	1001683
Quartzite	113894
Coal	1155976
Coal for CDI	453352
Ferro Alloys	51200
Iron Ore for SMS	27351

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Following are the details of finished products:

S. N.	Products	Annual production (TPA)
1.	Pig Iron	308,200
2.	Billets	91,900
3.	Heavy Structural	600,000
4.	Bars & Wire rods	1,250,000
5.	Heavy Structural from existing mill	150,000
6.	Light Structural from existing mill	100,000
7.	Bars & Rods from existing mill	180,000

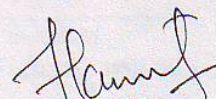
2. The specific condition no. (X) shall be read as **“ Out of total 1165.58 Ha, green belt shall be developed in 260 Ha in addition to existing 43 Ha within and around the plant premises as per CPCB guidelines in consultation with DFO.”**
3. The file No. J-11011/348/2005-IA.II(I) given in the original Environmental Clearance may be read as J-11011/348/2006-IA.II(I).
4. This letter shall be kept attached with the original clearance letter.

This issue with the approval of competent authority.

(H.S. Malviya)
Joint Director

Copy to:

1. Secretary (Environment), Government of West Bengal, Kolkata
2. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-office Complex, East Arjun Nagar, New Delhi-110 032
3. The Chairman, West Bengal Pollution Control Board, Paribesh Bhawan, 10-A, Block LA, Sector 3, Salt Lake City, Kolkata-700 091
4. Chief Conservator of Forests (Central), Regional Office (EZ), Ministry of Environment and Forests A/3, Chandrasekharpur, Bhubaneswar -751 023
5. Director, Monitoring Cell, MoEF
6. M/s. Steel Authority of India Ltd. (SAIL), Burnpur, Asansol, Burdwan, West Bengal for information and necessary compliance.
7. Guard file
8. Record file


(H.S. Malviya)
Joint Director

F. No. J-11011/348/2006- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi – 110 003
E-mail: plahujarai@yahoo.com
Tele/fax: 011 – 2436 3973
Dated: 1st June, 2011

To,
M/s Steel Authority of India Limited (SAIL)
IISCO Steel Plant,
Burnpur- 713 325
West Bengal

Fax: 0341-2241506

E-mail: iisco@sancharnet.in

Sub: Expansion of IISCO Steel Plant (ISP) (0.55 MTPA to 2.5 MTPA), Rebuilding of Coke Oven Battery no. 10 and setting up of a Captive Power Plant (87.5 MW) and other facilities at Burnpur, Asansol, Burdwan, West Bengal by M/s Steel Authority of India Limited (SAIL) - regarding Amendment in Environmental Clearance

Sir,

This is in continuation of this Ministry's letter of even no. dated 7.08.2007 and subsequent communication dated 22.07.2010 requesting the Ministry for an amendment in environmental clearance dated 7.08.2007.

2. The proposal was placed before the Expert Appraisal Committee (Industry-1) in its 22nd meeting held during 18th - 19th April, 2011. The Committee noted that there is no increase in the total gross coke production and also coal throughput, no change in the pollution load as envisaged earlier for 67 ovens in the EIA/EMP report. The additional ovens have been provided to facilitate efficient heating control, ease of operation and adherence to coke quality parameters.

3. The Committee recommended the proposal for amendment in environmental clearance letter dated 7th August, 2007 i.e. revision of coke oven battery from 67 ovens to 74 ovens (in 2 blocks of 37 ovens each) without increase in the total gross coke production and also coal through put.

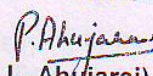
4. The Ministry accepts the recommendation of the Expert Appraisal Committee (Industry-1) for installation of 74 ovens in the coke oven battery and amend the environmental clearance accorded on 7.08.2007 subject to stipulation of following additional conditions:

- i. There shall be no increase in the total coke production and coal throughput due to increase in the number of ovens from 67 to 74 in the coke oven battery.
- ii. Data on ambient air, stack and fugitive emissions shall be regularly submitted online to Ministry's Regional office at Bhubaneswar, SPCB and Central Pollution Control Board as well as hard copy once in six months and display data on RSPM, SO₂ and NOx outside the premises at the appropriate place for the general public.
- iii. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16th November, 2009 shall be followed.

- iv. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar/CPCB/SPCB shall monitor the stipulated conditions.
 - v. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.
 - vi. The company shall adopt well laid down corporate environment policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with environmental clearance, environmental laws and regulations.
5. In future, in case of change in the scope of the project, the company shall obtain fresh environmental clearance.

This issues with the approval of the Competent Authority.

Yours faithfully,


(Dr. P.L. Ahujarai)
Scientist 'F'

Copy to:-

1. The Secretary, Department of Environment, Govt. of West Bengal, Kolkata, West Bengal.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
3. The Chairman, West Bengal Pollution Control Board, Parivesh Bhawan, 10A Block-LA, Sector-III, Salt Lake, Kolkata - 700091, West Bengal.
4. The Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment and Forests A-3, Chandrashekharapur, Bhubaneswar - 751 023, Orissa
5. Guard File / Monitoring File / Record File

1
(Dr. P. L. Ahujarai)
Scientist 'F'

Environment Clearance

F. No. J-11011/348/2005-IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi - 110 003

E-mail: gkk37@rediffmail.com
Telefax: 011: 2436 4592

Dated: 14th November, 2013

To,

M/s Steel Authority of India Limited,
IISCO Steel Plant
Bumapur - 713325
Burdwan
West Bengal

E-mail: Nil Fax: 0341 - 2241984

Subject: Expansion of IISCO Steel Plant (ISP) (0.55 MTPA to 2.50 MTPA), Rebuilding of Coke Oven Battery No. 10 and setting up of a Captive Power Plant (87.5 MW) and other facilities at Bumapur, Asansol, Burdwan, West Bengal by M/s Steel Authority of India Limited (SAIL) - regarding extension of validity of Environment Clearance

Ref. : (i) Ministry's EC letter of even no. dated 7.8.2007 and subsequent communications dated 22.11.2007 and 1.6.2011

(ii) Your letter No. EMD/MOEF/80 dated 13.10.2012 and letter no. SAIL/DT/01 dated 10.9.2013

Sir,

This is in continuation of this Ministry's letters referred above and your letters under reference, wherein you have requested for extension of validity of the aforesaid Environment Clearance (EC).

2. The above proposal was placed before the Reconstituted Expert Appraisal Committee (Industry) in its 11th meeting held during 26-27th August, 2013. The Committee noted that the proponent has submitted the request for the extension of validity of EC after its expiry period i.e. 6.8.2012. Further, as per the Ministry's O.M. No. J-11013/5/2010-IA.II dated 30.3.2012, the moratorium for consideration of projects located in Asansole, West Bengal [CEPI: 70.20 - Burnpur area surrounding IISCO] is yet to be lifted. After detailed deliberations, the Committee recommended that the aforesaid proposal may be reviewed by the Ministry as the proponent has submitted the request for the extension of validity of EC after its expiry period and the moratorium for consideration of projects located in Asansole West Bengal [CEPI: 70.20 - Burnpur area surrounding IISCO] is yet to be lifted.

3. It may be noted that this Ministry vide Office Memorandum No. J-11013/5/2010-IA.II dated 17.9.2013 lifted the moratorium imposed on Asansole, West Bengal for consideration of projects.



4. As recommended by REAC (Industry), the aforesaid proposal was reviewed by the Ministry. It was noted that the aforesaid project was taken up by the M/s. SAIL is of national importance as the project will ensure a positive thrust to the national economy as well as for infrastructure development across the country.

5. After taking into consideration the aforesaid facts, the Ministry hereby extends the validity of EC by a period of five years with effect from 6.8.2012 subject to environmental safeguards.

6. The validity of the Environmental Clearance letter no. J-11011/348/2005 - IA II (I) dated 7.8.2007 is hereby extended for a period of five years with effect from 6.8.2012 subject to the specific and general environmental conditions.

7. All other conditions stipulated in the environmental clearance letter no. J-11011/348/2005 - IA II (I) dated 7.8.2007 shall remain the same.

8. The company shall obtain fresh environmental clearance in case of any change in the scope of the project.

This issues with the approval of the Competent Authority.

(Dr.K.K.Garg)
Director(S)

Copy to:-

1. The Secretary, Department of Environment, Govt. of West Bengal.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.
3. The Chairman, West Bengal Pollution Control Board, Paribesh Bhawan, Bldg. No. 10-A, Block- LA, Sector 3, Salt Lake City, Kolkata - 700 091
4. The Additional Principal Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment & Forests, A/3, Chandeseekharpur, Bhubaneswar - 751023.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Guard File / Record File/Monitoring file.

(Dr.K.K.Garg)
Director(S)



सत्यमेव जयते

Government of India

Ministry of Environment, Forests and Climate Change

F. No. J-11011/348/2006-IA II (I)

Indira Paryavaran Bhawan
Jor Bagh Road, Ali Ganj,
New Delhi - 110003

E-mail: tchand2003@yahoo.co.uk

Tele: 011: 24695313

Dated: 29th October 2014

To

Shri R.N.Das,
Executive Director I/C (Projects),
M/s Steel Authority of India Ltd.
IISCO Steel Plant
BURNPUR – 713 325, West Bengal.

E-mail: sailco@vsnl.com Tel: 0341 -2240441 Fax: 0341 – 2240704

Sub : Expansion of IISCO Steel Plant (ISP) (0.55 MTPA to 2.50 MTPA), Rebuilding of Coke Oven Battery No. 10 and setting up of a Captive Power Plant (87.5 MW) and other facilities of M/s Steel Authority of India, at Burnpur, Asansol, West Bengal (Amendment in EC-J-11011/348/2006-IA-II(I)) dated 07.08.2007)

Sir,

This is with reference to this Ministry's environmental clearance J-11011/348/2006-IA-II(I)] dated 07.08.2007 and your letter no. No. GM (SERV)/59/684 dated 09.06.2014, seeking an amendment. It is further stated that there would be no change of the site location of the specific units, or in the ultimate capacity of the plant, input resource requirement, and pollution load to the environment. It was submitted that the proposed changes will lead to overall improvement in quality of products, environmental performance, yields and energy efficiency. The total Crude steel production shall not exceed 2.5 MTPA as per the EC granted.

2. The aforesaid proposal was considered by Expert Appraisal Committee (Industry) in its 21st meeting held during 30th July -1st August 2014.

3. The changes sought are summarised as below:

SN	Facilities	As per the EC Granted	EC amendment proposed	Remarks
1	Crude Steel	2.5 mtpa	2.5 mtpa	No change
2	Finished Steel	2.28 mtpa	2.30 mtpa	No change in input. Increase in output due to better yield

SN	Facilities	As per the EC Granted	EC amendment proposed	Remarks
3	Existing Heavy Structural Mill	To increase production to 150,000 TPA	Phased out (Production stopped from 01.04.2014)	Obsolete Energy intensive unit phased out. (Commissioned - 1939)
4	Existing Merchant and Rod Mill	To increase production to 180,000 TPA	Phased out (Production stopped from 01.04.2014)	Obsolete Energy intensive unit phased out. (Commissioned - 1960)
5	Existing Light Structural Mill	To increase production to 100,000 TPA	Phased out (Production stopped from 01.04.2014)	Obsolete Energy intensive unit phased out. (Commissioned - 1939)
6	New Heavy Section Mill	A new mill of capacity 600,000 TPA	New Universal Section Mill to produce 850000 TPA	Capacity of phased out unit have been built in without increasing total input. Output increases due to better yield.
7	New Wire and Rod Mill	A new mill of capacity 1,250,000 TPA producing both Wire and Bars	Wire Rod Mill: 550000 TPA Bar Mill: 900000 TPA	Capacity of phased out unit have been built in without increasing total input. Output increases due to better yield.
8	Existing Oxygen Plant	Oxygen Plant of 1x50 TPD	Phased out (Production stopped from 21.12.2008)	Obsolete Energy intensive unit phased out.
9	New Oxygen Plant	Oxygen Plant of capacity 2x750 TPD on BOO basis	Oxygen Plant of capacity 2x750 TPD by SAIL-ISP	No change in capacity. Change in ownership
10	Gross Coke Production	1.5517 mtpa	1.5517 mtpa	No Change
	A) Existing Coke Ovens	Rebuild Battery No. 10 Coke oven Battery No.8 (half Battery operation as per EIA)	Rebuild Battery No. 10 Coke Oven Battery No. 8 (full Battery operation)	No change in production
	B) New Coke Ovens	New Battery No. 11 (7 m tall Battery with Coke Dry Quenching)	New Battery No. 11 (7 m tall Battery with Coke Dry Quenching)	No Change

4. After detailed deliberations, the Committee had sought specific details with respect to the following:

- (i) Extent of changes in pollution load due to the proposed changes in configuration.
- (ii) Changes in input characteristics of the products
- (iii) Changes in effluents characteristics
- (iv) Details of solid waste generation
- (v) Details of fuel and power consumption

5. Your response vide letters dated 14.08.2014 and 11.09.2014 were further considered in the EAC (I) meeting held on 18th-19th September 2014.

6. The proposed changes are as given below:

i) **Total and Specific Power Consumption (as accorded EC vis-à-vis after proposed amendment)**

SN	Units as per the Requested Amendments in EC	Power Consumption (MVA)					
		As Considered at EC Stage		As per the Requested Amendments in EC		Net Change	
		MVA	MW	MVA	MW	MVA	MW
	Power Consumption						
1	Sinter Plant	22	18.7	22	18.7	-	-
2	Oxygen Plant	-	-	34*	28.9*	+34*	+28.9*
3	Blast Furnace +CDI+GCP	22	18.7	22	18.7	-	-
4	Centralised Compressed Air Station	14	11.9	14	11.9	-	-
5	CO+BP+BOD	7	5.95	7	5.95	-	-
6	BOF + CCP	40	34	40	34	-	-
7	USM	22	18.7	26	22.1	+4	+3.4
8	Wire Rod + Bar Mills	24	20.4	30	25.5	+6	+5.1
9	RMHS	7	5.95	7	5.95	-	-
10	WTP, RMHS Office	7	5.95	7	5.95	-	-
11	LDGP RMHS Intake Water	12	10.2	12	10.2	-	-
12	Existing Plant+Township	31	26.35	19	16.15	-12	-10.2
13	Auxiliary	6	5.1	6	5.1	-	-
	Total	214	181.9	246	209.1	32	27.2
	Specific Power Consumption KWH/TCS		583 (excluding Oxygen and Township)		679 (including Oxygen Plant but excluding Auxiliary and Township)		
The power requirement for New Oxygen Plant was not considered under ISP scope at EC stage, as the plant was considered to be operated on BOO basis. ** specific power consumption excluding oxygen plant is 577.5 KWH/TCS							

ii) **Total and specific water Consumption (as per accorded EC vis-à-vis after proposed amendment)**

SN.	Water Requirement	As Considered at EC Stage	As per the Requested Amendment in EC	Net Change
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1	Total Water requirement (MGD)	23	22.945	Reduced
2	Specific Water Consumption (m3/tcs)	4.8	4.7	2% reduction
	CREP Guidelines for Specific Water Consumption (m3/tcs)	5.0	5.0	

iii) An undertaking has been provided in respect of change in owner ship of new oxygen plant stating that ISP shall be responsible for complying all conditions liabilities & legal provisions contained in the EC.

iv) **Handling and disposal of the residual of the RO Unit**

All RO rejects will be collected and treated for recovery of water and the rejects will go to evaporator and dried salt will be disposed at TSDF facilities at Haldia, West Bengal.

After taking in to consideration the above, the Committee recommended for the amendment in the EC dated 07.08.2007 as referred above subject to environmental safeguards.

3. The Ministry accepts the recommendation of the REAC (Industry) and amends the Environmental Clearance letter no. **EC-J-11011/348/2006-IA-II(I)] dated 07.08.2007.**

4. All other conditions stipulated in the environmental clearance letter no. J-11011/28/2007 - IA II (I) dated 31.3.2008 shall remains the same.

5. The company shall obtain fresh environmental clearance in case of any change in the scope of the project.

This issues with the approval of the Competent Authority.

(Dr. T. Chandini)
Scientist F

Copy to:

1. The Secretary, Department of Environment, Govt. of West Bengal.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.
3. The Chairman, West Bengal Pollution Control Board, Paribesh Bhawan, Bldg. No. 10-A, Block- LA, Sector 3, Salt Lake City, Kolkata – 700 091
4. The Additional Principal Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment, Forests and Climate Change (MoEF&CC), A/3, Chandesekharapur, Bhubaneswar – 751023.
5. Guard File / Record File/Monitoring file.