

MINUTES OF THE 21ST MEETING OF THE RE-CONSTITUTED EXPERT APPRAISAL COMMITTEE (EAC) ON ENVIRONMENTAL IMPACT ASSESSMENT (EIA) OF THERMAL POWER PROJECTS HELD ON 22ND FEBRUARY, 2022

The 21st Meeting of the re-constituted EAC (Thermal Power) organized by the Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi was held on 22nd February, 2022 through video conference under the Chairmanship of Shri Gururaj P. Kundargi. The list of Members participated in the meeting is at **Annexure**.

Agenda Item No. 21.1:

Confirmation of the Minutes of the 20th EAC meeting

The Minutes of the 20th EAC (Thermal Power Project) meeting held on 28th January, 2022 were confirmed.

Agenda Item No. 21.2:

Installation of Captive Power Plant of 8 MW capacity based on WHRB/ AFBC boilers within the existing premises in an area of 8.77 acres at Village Manjhiladih, Tehsil & Dist. Giridih, Jharkhand by M/s Balmukund Sponge and Iron Private Limited (Sponge Division) – Terms of References (TOR) – reg.

[Proposal No. IA/JH/THE/236211/2021; F. No. J-13012/6/2021-IA.I (T)]

21.2.1 The proposal is for grant of Terms of References (TOR) to Installation of Captive Power Plant of 8 MW capacity based on WHRB/ AFBC boilers within the existing premises in an area of 8.77 acres at Village Manjhiladih, Tehsil & Dist. Giridih, Jharkhand by M/s Balmukund Sponge and Iron Private Limited (Sponge Division).

21.2.2 The details of the project submitted by project proponent and ascertained from the document submitted are mentioned below:

- i. M/s Balmukund sponge & Iron Pvt. Ltd. (Sponge Division) operates three units of each of 100 TPD DRI kilns for manufacturing of Sponge Iron. Presently it operates under CTO from JSPCB. It receives power from state power grid.
- ii. The Jharkhand State Pollution Control Board (JSPCB) has directed the proponent to set up as its own captive power plant to meet the power demand of sponge iron plant and accordingly the proponent proposes to setup the CPP within the premises of the existing sponge iron plant.
- iii. M/s Balmukund Sponge & Iron Pvt. Ltd. proposes to install and run a 8 MW Captive Power Plant

within the existing premises of Sponge Iron manufacturing unit at Thana No.267 & Part of Survey Khata No. 3, 28, 62, 110, 132 and Survey Plot No. 918 (P), 920, 921, 922 (P), 923 (P), 924 (P) & 925 (P) of Mauza Manjhiladih, P.O. Gadisrirampur, P.S. Giridih (M), Dist. Giridih in the State of Jharkhand.

- iv. The power plant will generate electrical power thus reducing load on power grid of the area this will facilitate in supplying power to other Industrial units that require power or other consumers needing power. Power plant will also utilize solid waste generated from Sponge Iron Plant and waste hot gas. Thus reducing load on environment.
- v. The PP proposes to install a 8 MW Captive Power Plant (CPP) based on WHRB/ AFBC boilers and on an air cooled condensation technology to meet its total power requirement.
- vi. Production of sponge iron in DRI kilns which generates huge quantities of hot flue gases carrying considerable sensible heat. The energy content of these gases will be effectively be used in the proposed CPP. Moreover, the proposed CPP will fully consume the dolochar generated by the existing Sponge Iron kilns. Thus the CPP would be an ideally suited proposition to effectively make use of this waste gas and solid waste i.e. dolochar generated by the existing Sponge Iron kilns. This would not only make the plant independent of external source of electric power but would also result in energy conservation and environment protection.
- vii. Steam Turbo-generators (STGs) envisaged for the Power plant will be single cylinder, multistage, extraction – cum – condensing type complete with condenser, air evacuation system, 2 x 100% condensate extraction pumps, electronic governing system, lubricating oil system, regenerative feed heating system etc. The turbine will be fed with steam generated from HRSG in DR kiln.
- viii. The power plant will have 3 x 10MT WHRB capable of generating 6 MW power and one 15 MT AFBC boiler capable of generating 2 MW power. The boilers will be integrated/connected to a Steam Turbine Generator capable of giving an output of 8 MW.
- ix. Salient features of the project:

Land requirement	1.10 Ha.
Existing unit	Sponge Iron : 3 x 100 TPD kilns
Proposed	8 MW Captive Power Plant
Raw Material	Dolochar Coal / Coal Fines
Area(Existing/Proposed)	Existing-8.77 acres Available Open Land Area-2.72 Acre out of which 1.5 Acre Land will be utilized for the proposed CPP installation.
Topo Sheet No	72 L/8

Latitude (Range)	24°07' 07" N 24°07' 08" N	24°07' 09" N 24°07' 10" N
Longitude (Range)	86°21' 14" E 86° 21' 15" E	86° 21' 16" E 86° 21' 17" E
Village	Manjhiladih	
Tehsil	Giridih	
District	Giridih	
State	Jharkhand	
Plot No. & Khata No.	Khata No.: 3, 28, 62, 110, 132 Plot No. : 918 (P), 920, 921, 922 (P), 923 (P), 924 (P) & 925 (P)	
Total water requirement	32 KLD	
Source	From Rainwater Harvesting Pond NOTE : Ground Water will use in case of shortage of rainwater.	
Nearest Habitation	The nearest habitation from the project site is Manjhiladih at a distance of about 1 Km.	
Nearest River	The nearest river is Usri Nadi is at a distance of 1.25 Km and Barakar River at a distance from 8.8 Km from the project site.	
Highway	The plant location is at a distance of 250 m from SH 13 i.e. Kodarma – Giridih – Govindpur and about 8 Km National Highway – 114A.	

x. Raw material requirement:

S.No.	Raw Material	Source	Mode of Transport	Annual requirement TPA
1.	Charcoal/Dolochar (Captively available)	From existing Sponge Iron Kiln	-	32400 MT
2.	Coal/Coal fines	Nearby suppliers in Jharkhand/W.B	Road	6800 MT

21.2.3 The EAC during deliberations noted the following:

The EAC noted that the proposal is for grant of Terms of References (TOR) for conducting EIA study for installation of Captive Power Plant of 8 MW capacity based on WHRB/ AFBC boilers within the existing premises in an area of 8.77 acres at Village Manjhiladih, Tehsil & Dist. Giridih, Jharkhand by M/s Balmukund Sponge and Iron Private Limited (Sponge Division).

The EAC noted that the total capacity for manufacturing of Sponge Iron is 300 TPD and plant operates under CTO from JSPCB since 2001-2004. Presently, it receives power from state power grid. Raw

material required for proposed TPP will be dolochar generated by the existing Sponge Iron kilns and Coal.

Now, the JSPCB has directed the proponent to set up its own captive power plant to meet the power demand of sponge iron plant and accordingly the proponent submitted the proposal to State Level Environment Impact Assessment Authority (SEIAA) as a category B project. The State Expert Appraisal Committee (SEAC) in 92nd meeting which concluded on 23rd October, 2021 deliberated that “ The project proposal is expansion of 300 TPD sponge iron plant. Hence, this is a Category ‘A’ project as per EIA notification, 2006. Accordingly, this project was not considered by the SEAC and recommended for delisting.”

Accordingly, PP applied for fresh proposal no. IA/JH/THE/236211/2021 for grant of ToR in thermal power sector.

21.2.4 The EAC after detailed deliberations on the details submitted by the project proponent and information made during the meeting, opined that the project is an integrated project and project shall be considered as an expansion case of the 300 TPD sponge iron plant, therefore PP should obtain Environmental Clearance for integrated project from Industry-1 sector of MoEF&CC under EIA, notification 2006 and as amended. The PP also agreed to the suggestion provided by the EAC.

*The proposal was **returned** on above points.*

The meeting ended with vote of thanks to the Chair.

ATTENDANCE

S. No	Name	Role	Attendance
1.	Shri Gururaj P. Kundargi	Chairman	P
2.	Shri Suramya Vora	Member	P
3.	Dr Santosh Kumar Hampannavar	Member	P
4.	Dr. Umesh Jagannathrao Kahalekar	Member	P
5.	Dr. Nandini. N	Member	P
6.	Prof. S. S. Rai	Member (Representative of IIT/ISM)	P
7.	Shri M.P. Singh	Member (Representative of CEA)	P
8.	Shri Yogendra Pal Singh	Member Secretary	P

APPROVAL OF THE CHAIRMAN

Fwd: Comments on draft MoM of 21th EAC (Thermal) meeting held on 22.02.2022 -reg

3 messages

Yogendra Pal Singh <yogendra78@nic.in>
To: geetdeepbisht <geetdeepbisht@gmail.com>

Please upload the approved MOM on PARIVESH

From: "Yogendra Pal Singh" <yogendra78@nic.in>
To: gpkundargi@gmail.com
Sent: Thursday, March 10, 2022 7:04:00 PM
Subject: Re: Comments on draft MoM of 21th EAC (Thermal) meeting held on 22.02.2022 -reg

Okay Sir.

From: gpkundargi@gmail.com
To: "Yogendra Pal Singh" <yogendra78@nic.in>
Cc: "Munna Kumar Shah" <munna.shah@gov.in>
Sent: Thursday, March 10, 2022 6:41:24 PM
Subject: Re: Comments on draft MoM of 21th EAC (Thermal) meeting held on 22.02.2022 -reg

Dear Yogendra ji
Draft minutes are fine with me & approved for further needful.
Thank you
G P Kundargi

On Wed, 9 Mar, 2022, 12:49 pm Yogendra Pal Singh, <yogendra78@nic.in> wrote:

Dear Sir,

Please find attached draft MoM of 21th EAC (Thermal) meeting held on 22.02.2022 for perusal and comments, if any.

With Regards,

Yogendra Pal Singh
Scientist 'E'
M/o Environment, Forest and Climate Change
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