

**F. No. J-11011/352/2010-IA II(I)**  
Government of India  
Ministry of Environment, Forest & Climate Change  
Impact Assessment Division

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Indira Paryavaran Bhawan,  
Jal Wing, 3<sup>rd</sup> Floor, Aliganj,  
Jor Bagh Road, New Delhi-110 003

Dated: 8<sup>th</sup> August, 2022

To,

M/s. Great Eastern Energy Corporation Ltd.,  
M-10, ADDA Industrial Area,  
PO - Ramkrishna Mission, Asansol  
Burdwan, West Bengal.

**Sub: Expansion of exploration and production of Coal Bed Methane Gas in Raniganj (South) CBM Block, West Bengal by M/s Great Eastern Energy Corporation Ltd. - Amendment (Extension) in Environmental Clearance regarding.**

Sir,

This refers to your online proposal No. IA/WB/IND2/276338/2022 dated 03<sup>rd</sup> June, 2022 for amendment (extension) in the environmental clearance to the above mentioned project.

**2.** The Ministry of Environment, Forest and Climate Change has considered the above proposal for extension of validity of environmental clearance granted by the Ministry vide letter No. J-11011/352/2010-IA.II(I) dated 24<sup>th</sup> November, 2011 and EC extension granted up to 24<sup>th</sup> November 2021 for the Project Expansion of exploration and production of Coal Bed Methane Gas in Raniganj (South) CBM Block, West Bengal in favour of M/s. Great Eastern Energy Corporation Ltd.

**3.** The project proponent has requested for extension of validity of EC with the details are as under.


<b>S. No.</b>	<b>EC issued by MoEF&amp;CC</b>	<b>Period of Extension</b>	<b>Justification/ reasons</b>
1.	F. No. J-11011/352/2010-IA.II(I) dated 24 <sup>th</sup> November, 2011	1 year	EC validity extension has already been granted by MoEFCC dated 1 <sup>st</sup> May, 2019 till 24 <sup>th</sup> November, 2021. Latest Notification dated 12 <sup>th</sup> April, 2022 also states EC is valid till 10 years and as per MoEF&CC

		<p>notification dated 18th January, 2021, a 1-year extension in the validity of EC was granted due to reasons of Covid Pandemic. Thus, the Current EC is having validity till 24<sup>th</sup> November 2022.</p> <p>In the last seven years, GEECL has drilled 56 wells. Before drilling additional wells, GEECL has prioritized getting drilled wells pumped off and producing gas. As per our CBM Consultants it is not recommended to start a new drilling program until the current inventory of wells is producing to their full potential and the production behaviour of the targeted coal reservoirs is fully understood. Furthermore, the outbreak of Covid-19 in 2020, followed by subsequent lockdowns, has delayed the planned field development activities.</p> <p>The Project Proponent has requested for the EC extension for period of 1 year to complete the remaining work (144 wells (124 CBM production wells and 20 Shale Exploratory wells) with reference to MoEF&amp;CC notification dated 12th April, 2022.</p> <p>GEECL is currently planning to start drilling activities which are approved as part of 200 wells drilling programme starting from current fiscal year. GEECL will also commence drilling of Shale gas exploratory core wells starting from current fiscal year to understand the commercial viability of the Shale beds present within the Raniganj formation.</p>
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4. Based on recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords approval to the proposed amendments in the environmental clearance dated 24<sup>th</sup> November, 2011 as stated in para 3 above, for the project **Expansion of exploration and production of Coal Bed Methane Gas in Raniganj (South) CBM Block, West Bengal by M/s. Great Eastern Energy Corporation Ltd.**


5. As per extant rules, the maximum EC validity for oil and gas sector projects shall be 10 years. The Expert Appraisal Committee, after detailed deliberations **recommended** for extension of validity for 1 year as per OM dated 12<sup>th</sup> April, 2022 in the EC vide letter No. J-11011/352/2010-IA.II(I) dated 24<sup>th</sup> November, 2011 till 24<sup>th</sup> November, 2023, with all other terms and conditions remain unchanged.

6. This issues with approval of the competent authority.

  
**(A. N. Singh)**  
**Scientist-'E'**

**Copy to: -**

1. The Principal Secretary, Department of Environment & Forest, 5<sup>th</sup> Floor, Pranisampad Bhawan, Block LB-II, Salt Lake, Sector III, Bidhannagar, Kolkata – 700 106
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Kolkata IB – 198, Sector-III, Salt Lake City, Kolkata - 700106
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi - 32
4. The Member Secretary, West Bengal Pollution Control Board, Paribesh Bhawan 10A, Block-LA, Sector-III Bidhannagar, Kolkata-700 106
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
6. District Collector, Burdwan, West Bengal
7. Guard File/Monitoring File/ Parivesh Portal /Record File

  
**(A. N. Singh)**  
**Scientist-'E'**  
**E-mail: [aditya.narayan@nic.in](mailto:aditya.narayan@nic.in)**  
**Tel. No. 11-24642176**



# भारत का राजपत्र The Gazette of India

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असाधारण  
EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)  
PART II—Section 3—Sub-section (ii)

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नई दिल्ली, सोमवार, जनवरी 18, 2021/पौष 28, 1942  
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पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय

अधिसूचना

नई दिल्ली, 18 जनवरी, 2021

**का.आ. 221(अ).**— केंद्रीय सरकार, तत्कालीन पर्यावरण और वन मंत्रालय में, पर्यावरण (संरक्षण) अधिनियम, 1986 की धारा 3 की उप-धारा (1) और उप-धारा (2) के खंड (v) के अधीन अपनी शक्तियों के प्रयोग करते हुए, पर्यावरण समाघात निर्धारण अधिसूचना, 2006 (जिसे इसके बाद उक्त अधिसूचना कहा गया है) संख्या का. आ. 1533 (अ), तारीख 14 सितंबर, 2006 द्वारा प्रकाशित किया जा चुका है, उक्त अधिसूचना की अनुसूची में सभी संबंधित सूचीबद्ध नई परियोजनाओं या क्रियाकलापों के लिए उनके विस्तार और आधुनिकीकरण और/या उत्पाद मिश्रण में परिवर्तन किया जा सकता है यथास्थिति, भूमि को अभिप्राप्त करने के सिवाय, परियोजना प्रबंधन द्वारा किसी भी संनिर्माण कार्य या भूमि को तैयार करने से पूर्व संबंधित विनियामक प्राधिकरण से पूर्व पर्यावरणीय अनापत्ति अपेक्षित होगी।

और कोरोना वायरस (कोविड-19) के प्रकोप को देखते हुए और तत्पश्चात इसके नियंत्रण के लिए घोषित लॉकडाउन (कुल या आंशिक) ने, क्षेत्र में परियोजनाओं या क्रियाकलापों के कार्यान्वयन को प्रभावित किया है। पर्यावरण और वन जलवायु परिवर्तन मंत्रालय उक्त अधिसूचना में अनुज्ञात अधिकतम अवधि से परे पूर्व पर्यावरणीय अनापत्तियों की विधिमान्यता के विस्तार के लिए अनुरोधों की संख्या प्राप्ति में है, क्योंकि कोविड 19 महामारी अभी तक समाप्त नहीं हुई है। मामले की उक्त मंत्रालय में समीक्षा की गई है और चिंता इस तथ्य को ध्यान में रखते हुए है कि लॉकडाउन (कुल या आंशिक) के कारण, क्षेत्र में क्रियाकलापों को जारी रखना कठिन हो सकता है।

अतः अब, केंद्रीय सरकार, पर्यावरण (संरक्षण) नियम, 1986 के नियम 5 के (4) खंड के साथ पठित पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 3 की उप-धारा (1) की उप-धारा (2) के खंड (v) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, लोक हित में उक्त नियमों के नियम 5 के उप-नियम (3) के खंड (क) के अधीन नोटिस की अपेक्षा अभिमुक्ति के पश्चात् भारत के राजपत्र असाधारण, भाग- II, खंड 3, उपखंड (II), में प्रकाशित, भारत सरकार की तत्कालीन पर्यावरण और वन मंत्रालय अधिसूचना का.आ.1533 (अ), तारीख 14 सितंबर, 2006, में निम्नलिखित और संशोधन करती है, अर्थात्: -

उक्त अधिसूचना में,

(i) उप शीर्ष II "चरण (2)\_विस्तारण", के अधीन पैरा 7 के उप पैरा 7(i) में, खंड (viii) के पश्चात् निम्नलिखित खंड अंतःस्थापित किया जाएगा अर्थात्: -

"(ix) उपरोक्त में अंतर्विष्ट किसी बात के होते हुए, 1 अप्रैल 2020 से 31 मार्च 2021 की अवधि में कोरोना वायरस (कोविड-19) के प्रकोप को देखते हुए और तत्पश्चात् इसके नियंत्रण के लिए घोषित लॉकडाउन (कुल या आंशिक) की दृष्टि में इस अधिसूचना के उपबंधों के अधीन मंजूर संदर्भ की शर्तों की विधिमान्यता की अवधि की गणना के प्रयोजन के लिए विचार नहीं किया जाएगा ,तथापि उक्त संदर्भ की शर्तों के संबंध में इस अवधि के दौरान अपनाए गए सभी क्रियाकलाप विधिमान्य समझे जाएंगे।";

(ii) पैरा 9 क के स्थान पर, निम्नलिखित पैरा रखा जाएगा, अर्थात्: -

"9 क. इस अधिसूचना में अंतर्विष्ट किसी बात के होते हुए, 1 अप्रैल 2020 से 31 मार्च 2021की अवधि में कोरोना वायरस (कोविड-19) के प्रकोप को देखते हुए और तत्पश्चात् इसके नियंत्रण के लिए घोषित लॉकडाउन (कुल या आंशिक) की दृष्टि में इस अधिसूचना के उपबंधों के अधीन मंजूर पूर्व पर्यावरणीय अनापत्ति की विधिमान्यताकी अवधि की गणना के प्रयोजन के लिए विचार नहीं किया जाएगा ,तथापि उक्त पर्यावरणीय अनापत्ति के संबंध में इस अवधि के दौरान अपनाए गए सभी क्रियाकलाप विधिमान्य समझे जाएंगे।";

[फा. सं. 22-25/2020-आई.ए. III]

गीता मेनन, संयुक्त सचिव

**टिप्पण :** मूल अधिसूचना भारत के राजपत्र, असाधारण, भाग II, खंड 3, उप-खंड (ii) संख्या का.आ. 1533 (अ), तारीख 14 सितंबर, 2006 द्वारा प्रकाशित की गई थी और अधिसूचना अधिसूचना संख्या का.आ. 4254 (अ), तारीख 27 नवंबर, 2020 द्वारा अंतिम बार संशोधन किया गया था।

## MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

### NOTIFICATION

New Delhi, the 18th January, 2021

**S.O. 221(E).**—Whereas, the Central Government in the erstwhile Ministry of Environment and Forests, in exercise of its powers by sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 has published the Environment Impact Assessment Notification, 2006 (hereinafter referred to as the said notification) *vide* number S.O.1533(E), dated the 14<sup>th</sup> September, 2006, making the requirement of prior environmental clearance from the concerned regulatory authority mandatory for all new projects or activities listed in the Schedule to the said notification, their expansion and modernisation and/or change in product mix, as the case may be, before any construction work or preparation of land by the project management except for securing the land;

And whereas, in view of the outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, implementation of projects or activities in the field has been affected. Ministry of

Environment, Forest and Climate Change is in receipt of number of requests for extension of the validity of prior environmental clearances beyond the maximum period allowed in the said notification, as the COVID-19 pandemic has not yet come to an end. The matter has been examined in the said Ministry and the concern is genuine keeping in view the fact that due to lockdowns (total or partial), continuation of activities in the field has been difficult.

Now, therefore, in exercise of the powers conferred by sub-section (1) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986 (29 of 1986), read with sub-rule (4) of rule 5 of the Environment (Protection) Rules, 1986, the Central Government, after having dispensed with the requirement of notice under clause (a) of sub-rule (3) of rule 5 of the said rules in public interest, hereby makes the following further amendments in the notification of Government of India, in the erstwhile Ministry of Environment and Forests, number S.O. 1533 (E), dated the 14<sup>th</sup> September, 2006, published in the Gazette of India, Extraordinary, Part-II, Section 3, Sub-section (II), namely:-

In the said notification, -

- (i) in paragraph 7, in sub-paragraph 7(i), under sub-heading II. "Stage (2) – Scoping", after clause (viii), the following clause shall be inserted, namely:-

*"(ix). Notwithstanding anything contained above, the period from the 1<sup>st</sup> April, 2020 to the 31<sup>st</sup> March, 2021 shall not be considered for the purpose of calculation of the period of validity of Terms of Reference granted under the provisions of this notification in view of outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, however, all activities undertaken during this period in respect of the said Terms of Reference shall be treated as valid."*

- (ii) for paragraph 9A, the following paragraph shall be substituted namely:-

*"9A. Notwithstanding anything contained in this notification, the period from the 1<sup>st</sup> April, 2020 to the 31<sup>st</sup> March, 2021 shall not be considered for the purpose of calculation of the period of validity of Prior Environmental Clearances granted under the provisions of this notification in view of outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, however, all activities undertaken during this period in respect of the Environmental Clearance granted shall be treated as valid."*

[F.No.22-25/2020-IA.III]

GEETA MENON, Joint Secy.

**Note:** The principal notification was published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (ii) vide number S.O. 1533 (E), dated the 14<sup>th</sup> September, 2006 and was last amended vide the notification number S.O. 4254(E), dated the 27<sup>th</sup> November, 2020.



**By Speed Post/Online**

**F. No. J-11011/352/2010-IA II(I)**  
**Government of India**  
**Ministry of Environment, Forest & Climate Change**  
 Impact Assessment Division

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Indira Paryavaran Bhawan,  
 Jal Wing, 3<sup>rd</sup> Floor, Aliganj,  
 Jor Bagh Road, New Delhi-110 003

Dated: **25th** November, 2020

To,

**M/s Great Eastern Energy Corporation Limited,**  
 Burdwan, Bankura and Purulia District,  
 West Bengal.

**Sub: Expansion of Exploration and Production of Coal Bed Methane Gas in Raniganj (South) CBM block by M/s Great Eastern Energy Corporation Limited located at Burdwan, Bankura and Purulia District, West Bengal - Amendment in Environment Clearance regarding.**

Sir,

This refers to your online proposal No. IA/WB/IND2/115543/2019 dated 24<sup>th</sup> August, 2019 for amendment in the environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has considered the above proposal for amendment in the environmental clearance granted by the Ministry vide letter dated 24<sup>th</sup> November, 2011 in favour of M/s Great Eastern Energy Corporation Limited to the project for 'expansion of exploration and production of Coal Bed Methane gas in Raniganj (South) CBM Block located at Burdwan, Bankura and Purulia District (West Bengal).

3. The project proponent has requested for amendment in the EC with the details are as under.

S. No.	Para of EC issued by MoEF&CC	Details as per the EC	To be revised/ read as	Remarks
1	2.0	200 production wells up to 1100 m will be drilled to produce coal bed	Out of total no of 200 production wells; 180 production wells up to 1100 m will be drilled to produce coal bed methane (CBM) and remaining 20 exploratory wells are	As per the New MoPNG Notification dated 20 <sup>th</sup> August, 2018, GEECL is allowed to explore and exploit unconventional hydrocarbons (Shale

*3/11/20*



		methane (CBM)	proposed to be drilled for shale gas up to depth of 3000 m	gas) in the existing Raniganj (South) CBM block. The subsurface shale layer of the area was found in the depth upto 3000 m
2	Specific Condition A (ii)	Only 200 pilot-cum-production wells shall be drilled up to a depth of 1100 m	Out of total 200 pilot-cum-production wells; 180 pilot-cum-production wells up to 1100 m will be drilled to produce coal bed methane (CBM) and remaining 20 exploratory wells are proposed to be drilled for shale gas up to depth of 3000 m	

4. The proposal was appraised by the Expert Appraisal Committee (Industry-2) in the Ministry in its meeting held on 19<sup>th</sup> October, 2020. The EAC, after detailed deliberations, recommended the amendment in EC as proposed by the project proponent. Based on recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords approval to the proposed amendments in the environmental clearance dated 24<sup>th</sup> November, 2011 as stated in para 3 above, for the project **expansion of exploration and production of Coal Bed Methane Gas in Raniganj (South) CBM block by M/s Great Eastern Energy Corporation Limited located at Burdwan, Bankura and Purulia District, West Bengal.**

5. All other terms and conditions stipulated in the environmental clearance dated 24<sup>th</sup> November, 2011 shall remain unchanged.

6. This issues with approval of the competent authority.

*By*  
25-11-2020

(Ashok Kr. Pateshwary)  
Director

Copy to: -

1. The Principal Secretary, Department of Environment & Forest, 5<sup>th</sup> Floor, Pranisampad Bhawan, Block LB-II, Salt Lake, Sector III, Bidhannagar, Kolkata - 700 106
2. The Addl. Principal Chief Conservator of Forests (C), Ministry of Env., Forest and Climate Change, Regional Office (EZ), A/3, Chandersekharpur, Bhubaneswar-751023
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, **Delhi** - 32
4. The Member Secretary, West Bengal Pollution Control Board, Paribesh Bhawan 10A, Block-LA, Sector-III Bidhannagar, Kolkata-700 106
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, **New Delhi**
6. District Collector, Bankura and Purulia, West Bengal
7. Guard File/Monitoring File/ Parivesh Portal /Record File

(Ashok Kr. Pateshwary)  
Director



**F.No. J-11011/352/2010-IA-II (I)**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(IA-II Section)**

Indira Paryavaran Bhawan  
Jorbagh Road, New Delhi -3

Dated: 1<sup>st</sup> May, 2019

To

M/s Great Eastern Energy Corporation Limited  
M-10, ADDA Industrial Estate  
Asansol, West Bengal- 713305

**Sub: Expansion of exploration and production of Coal Bed Methane gas in Raniganj (South) CBM Block by M/s Great Eastern Energy Corporation Limited at Burdwan, Bankura and Purulia Districts (West Bengal) - Extension of validity of EC- reg.**

Sir,


This refers to your proposal No.IA/WB/IND2/85920/2011 dated 19<sup>th</sup> November 2018, for extension of validity of the environmental clearance (EC) to the above project.

2. The Ministry vide letter dated 24<sup>th</sup> November, 2011 has granted environmental clearance in favour of M/s Great Eastern Energy Corporation Limited to the project 'Expansion of Exploration and Production of Coal Bed Methane gas in Raniganj (South) CBM Block' located at Burdwan, Bankura and Purulia District (West Bengal).

3. Now it has been informed that due to various operational issues, only 56 wells could be drilled so far. To undertake drilling operations for the remaining 144 wells, extension of validity of the EC has been sought so as to complete the project as per the approved scope of the work.

4. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its meeting held on 29-31 January, 2019 in the Ministry. The Committee has recommended for extension of validity of the EC dated 24<sup>th</sup> November, 2011 for a period of three years, i.e. till 24<sup>th</sup> November, 2021.

5. Based on recommendations of the EAC, the Ministry hereby accords approval for extension of validity of the environmental clearance dated 24<sup>th</sup> November, 2011 for a period of three years i.e till 24<sup>th</sup> November, 2021, with all other terms and conditions stipulated therein remain unchanged.

  
1/5/2019  
**(S. K. Srivastava)**  
**Scientist E**

**Copy to: -**

1. The Additional DG (C), MoEF&CC Regional Office (EZ), A/3, Chandersekharpur, Bhubaneswar - 23 (Odisha)
2. The Secretary, Department of Environment, Government of West Bengal, Poura Bhavan, 4th Floor, FD-415/A, Sector-III, Bidhannagar, Kolkata - 106 (WB)
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, West Bengal Pollution Control Board, Paribesh Bhavan, 10A, Block-L.A., Sector 3, Salt Lake City, Kolkata - 98 (WB)
5. Guard File/Monitoring File/Website/Record File

F. No. J-11011/352/2010- 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](mailto:pb.rastogi@nic.in)

Telefax : 011: 2436 7668

Dated 24<sup>th</sup> November, 2011

To,

Shri Yogendra Kumar Modi, CEO  
M/s Great Eastern Energy Corporation Ltd.  
M-10, ADDA Industrial Area, PO-Ramkrishna Mission  
Asansol, District-Burdwan-713305, West Bengal.

E-mail: [yprasad@geeel.com](mailto:yprasad@geeel.com); Fax No. : 0124-2580467.

**Subject : Expansion of Exploration and Production of Coal Bed Methane Gas in Raniganj (South) CBM Block, West Bengal by M/s Great Eastern Energy Corporation Ltd.- Environment Clearance reg.**

**Ref. : Your letter no. GEECL/MoEF/EC/01 dated 9<sup>th</sup> May, 2011.**

Sir,

This has reference to your letter dated 9<sup>th</sup> May, 2011 on the above mentioned subject alongwith project documents including Prefeasibility Report, Draft Terms of References, EIA/EMP report and subsequent communications vide letters dated 11<sup>th</sup> July, 2011 on the above mentioned subject.

2.0 The Ministry of Environment & Forests has examined your application. It is noted that the proposal is for expansion of Exploration and Production of Coal Bed Methane Gas by drilling additional 200 wells in Raniganj (South) CBM Block, West Bengal. 200 production wells upto 1100 m depth will be drilled to produce Coal Bed Methane (CBM) by 2018. Block falls in Burdwan, Bankura and Purlia Districts of West Bengal. Each well will require 1.5-2.0 acre land. Total land requirement for the proposed project will be 425 acres within 210 sq. km<sup>2</sup>. No rehabilitation and resettlement is involved. Ministry has accorded environmental clearance vide letter no. J-11011/264/2007-IA II (I) dated 28<sup>th</sup> June, 2007 for exploration & production of coal bed methane (CBM) in Raniganj Coal Field. Total project cost for expansion is Rs. 1500.00 Crores. No forest land is involved in the project. No ecological sensitive areas, wild life sanctuaries reserve forest exists within the block. Protected forest namely Biharinath is located within block and protected forest namely Gourangipahar is bisected by boundary of block. River Damodar and Ramchandrapur Reservoir are located within the block. Coordinates of the Raniganj (South) CBM Block boundary are as given below:

Points	Latitude			Longitude		
	Degree	Minute	Second	Degree	Minute	Second
A	23°	36'	00"	86°	48'	15"
B	23°	36'	40"	86°	48'	10"
C	23°	38'	40"	86°	47'	00"
D	23°	39'	00"	86°	47'	45"



E	23°	38'	30"	86°	48'	00"
F	23°	38'	40"	86°	49'	00"
G	23°	39'	05"	86°	49'	40"
H	23°	38'	45"	86°	50'	45"
I	23°	38'	30"	86°	51'	05"
J	23°	39'	00"	86°	51'	15"
K	23°	39'	00"	86°	52'	15"
L	23°	38'	15"	86°	52'	05"
M	23°	37'	30"	86°	52'	50"
N	23°	37'	35"	86°	53'	20"
O	23°	38'	00"	86°	53'	05"
P	23°	39'	30"	86°	53'	15"
Q	23°	39'	15"	86°	54'	00"
R	23°	39'	40"	86°	53'	55"
S	23°	40'	00"	86°	53'	45"
T	23°	40'	15"	86°	54'	20"
U	23°	41'	15"	86°	54'	15"
V	23°	41'	35"	86°	55'	35"
W	23°	40'	30"	86°	55'	20"
X	23°	40'	00"	86°	56'	10"
Y	23°	40'	00"	86°	59'	50"
Z	23°	39'	05"	86°	59'	30"
a	23°	38'	15"	87°	00'	00"
b	23°	38'	45"	87°	00'	20"
c	23°	38'	30"	87°	01'	15"
d	23°	37'	40"	87°	01'	00"
e	23°	36'	30"	87°	01'	45"
f	23°	35'	30"	87°	04'	50"
g	23°	34'	00"	87°	03'	45"
h	23°	33'	20"	87°	03'	20"
i	23°	33'	30"	87°	00'	15"
j	23°	33'	45"	87°	00'	00"
k	23°	33'	50"	87°	56'	05"
l	23°	34'	30"	86°	55'	55"
m	23°	35'	00"	86°	51'	10"
n	23°	35	15"	86°	50'	00"

Development of proposed additional wells will be as per following schedule:

Year	Number of Well to be drilled/year
2011-12	20
2012-13	30
2013-14	30
2014-15	30
2015-16	30
2016-17	30
2017-18	30



The following additional facilities will be installed:

- i. 5 Gas Gathering Stations (GGSs).
- ii. 5 Central Gas Stations (CGSs).
- iii. MDPE pipelines for connecting wells to GGS.
- iv. Steel pipelines from GGS to CGS.
- v. Steel pipelines from CGS to various gas consumer.

3.0 Adequate stack height will be provided to Diesel/Gas generator. The scanner will be provided at well site to detect release of CBM gas once the production starts. Detectors will be provided for leak detection of methane. Water based mud will be used. Total water requirement will be 75 m<sup>3</sup>/day for each well during drilling. During operation phase, water requirement will be @ 2 m<sup>3</sup>/day at each GGS and @ 1 m<sup>3</sup>/day at each CGS. CBM produced water will be reused for fire fighting. During drilling and development of wells, wastewater will be generated @ 64 m<sup>3</sup> per well. Waste drilling fluid and separated drill cuttings will be stored onsite impervious HDPE lined pit for solar evaporation and drying. During production phase, produced water @ 25 m<sup>3</sup>/day/well will be generated and stored onsite lined pit for solar evaporation, reuse in drilling of new wells and fire hydrant system. No effluent will be discharged outside the premises and 'Zero' discharge will be adopted. Waste / used / spent oil and used batteries will be sold to authorized recyclers/re-processors.

4.0 The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 15<sup>th</sup>, 23<sup>rd</sup> and 25<sup>th</sup> Meeting held during 22<sup>nd</sup>-23<sup>rd</sup> October, 2010, 30<sup>th</sup>- 31<sup>st</sup> May, 2011 and 28<sup>th</sup>-30<sup>th</sup> July, 2011 respectively.

5.0 Public hearing/public consultation meeting was exempted as per section 7 (ii) of EIA Notification, 2006.

6.0 The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14<sup>th</sup> September, 2006 subject to strict compliance of the following specific and general conditions:

**A. SPECIFIC CONDITIONS :**

- i. All the specific conditions and general conditions specified in the earlier environmental clearance letters accorded vide Ministry's letter no. J-11011/264/2007-IA II (I) dated 28<sup>th</sup> June, 2007, shall be implemented.
- ii. As proposed, Only 200 pilot-cum-production wells shall be drilled upto a depth of 1100 m. No additional wells shall be drilled without prior permission from this Ministry.
- iii. As proposed, no forest land shall be used for the proposed facilities. No forest land shall be used for installation of Group Gathering Stations (GGSs) and pipeline laying in the proposed location.
- iv. Permission and recommendations of the State Forest Department shall be obtained regarding impact of the proposed exploratory and production wells on the Biharinath PF & Gourangipahar PF and all the recommendations shall be implemented in a time bound manner.
- v. Compensation for the land acquisition to the land oustees, if any, and also for standing crop shall be paid as per the National Resettlement and Rehabilitation Policy (NRRP) 2007 or



State Government norms. It may be ensured that compensation provided shall not be less than the norms of the NRRP, 2007.

- vi. All the surface facilities including GGS, CGS and surge vessel (SV) station shall be as per applicable codes and standards, international practices and applicable local regulations.
- vii. Ambient air quality shall be monitored near the closest human settlements as per the National Ambient Air Quality Emission Standards (NAAQES) issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 for PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, CH<sub>4</sub>, VOCs, HC, Non-methane HC etc. Efforts shall be made to improve the ambient air quality of the area.
- viii. The company shall monitor data on methane and non-methane hydrocarbon at the drilling site, GGS, CGS and at the SV station from where the gas is supplied to the customers.
- ix. Mercury shall also be analyzed in air, water and drill cuttings twice during drilling period.
- x. The flare system shall be designed as per good oil field practices and Oil Industry Safety Directorate (OISD) guidelines. The company shall take necessary measures to prevent fire hazards and soil remediation as needed. At the place of ground flaring, the flare pit shall be lined with refractory bricks and efficient burning system. In case of overhead flare stacks, the stack height shall be provided as per the regulatory requirements and emissions from stacks shall meet the MOEF/CPCB guidelines.
- xi. The company shall make the arrangement for control of noise from the drilling activity, compressor station and DG sets by providing necessary mitigation measures such as proper acoustic enclosures to DG sets and meet the norms notified by the MoEF. Height of all the stacks/vents shall be as per the CPCB guidelines.
- xii. The company shall comply with the guidelines for disposal of solid waste, drill cutting and drilling fluids for onshore drilling operation notified vide GSR. 546(E) dated 30<sup>th</sup> August, 2005.
- xiii. Total fresh water requirement from local approved water suppliers shall not exceed 75 m<sup>3</sup>/day for each well during drilling phase and 2 m<sup>3</sup>/day for each GGS & 1 m<sup>3</sup>/day at each CGS during operation phase and prior permission shall be obtained from the concerned Authority and a copy submitted to the Ministry's Regional Office at Bhubaneswar. No ground water shall be used without permission of CGWA/SGWA.
- xiv. During drilling and development of wells, wastewater (@ 64 m<sup>3</sup> per well) will be segregated into waste drilling fluid and drill cuttings. Drill cutting shall be stored onsite impervious HDPE lined pit for solar evaporation and drying. Effluent shall be properly treated and treated effluent shall conform to CPCB standards. The produced water @ 25 m<sup>3</sup>/day/well shall be stored onsite HDPE lined pit for solar evaporation and reuse in drilling of new wells and fire hydrant system. No effluent shall be discharged outside the premises and 'Zero' discharge concept shall be adopted. Domestic effluent shall be disposed off through septic tank followed by soak pit.
- xv. Ground water quality monitoring shall be done to assess if produced water storage or disposal has any effect.



- xvi. Drilling wastewater including drill cuttings, wash water shall be collected in disposal pit lined with HDPE lining, evaporated or treated and shall comply with the notified standards for on-shore disposal on land. Proper toxicological analysis shall be done to ensure there is no hazardous material. The treated wastewater shall be reused in other wells during drilling operations. Copy of toxicological analysis shall be submitted to Ministry's Regional Office at Bhubaneswer.
- xvii. Only water based drilling mud shall be used. The drilling mud shall be recycled. Hazardous waste shall be disposed of as per Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers/re-processors.
- xviii. The Company shall carry out long term subsidence study by collecting base line data before initiating drilling operation till the project lasts. The data so collected shall be submitted six monthly to the Ministry and its Regional Office at Bhubaneswer.
- xix. The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation.
- xx. The project authorities shall install SCADA system with dedicated optical fiber based telecommunication link for safe operation of pipeline and Leak Detection System. Additional sectionalizing valves in the residential area and sensitive installations shall be provided to prevent the amount of gas going to the atmosphere in the event of pipeline failure. Intelligent pigging facility shall be provided for the entire pipeline system for internal corrosion monitoring. Coating and impressed current cathodic protection system shall be provided to prevent external corrosion.
- xxi. The company shall take necessary measures to prevent fire hazards and soil remediation as needed. The stacks of adequate height shall be provided to flare the gas, if required, to minimize gaseous emissions and heat load during flaring.
- xxii. To prevent underground coal fire, preventive measures shall be taken for ingress of ambient air during withdrawal inside the coal seams by adopting technologies including vacuum suction. Gas detectors for the detection of CH<sub>4</sub> and H<sub>2</sub>S shall be provided.
- xxiii. The design, material of construction, assembly, inspection, testing and safety aspects of operation and maintenance of pipeline and transporting the natural gas/oil shall be governed by ASME/ANSI B 31.8/B31.4 and OISD standard 141. Pipeline wall thickness and minimum depth of burial at river crossing and casings at rails, major road crossings should be in conformity with ANSI/ASME requirements.
- xxiv. Annual safety audit shall be carried out for the initial three years by an independent agency and report submitted to this Ministry for ensuring the strict compliance of safety regulations on operations and maintenance.
- xxv. The project authorities shall patrol and inspect the pipeline regularly for detection of faults as per OISD guidelines and continuous monitoring of pipeline operation by adopting non-destructive method (s) of testing as envisaged in the EMP. Pearson survey and continuous potential survey should be carried out at regular intervals to ensure the adequacy of cathodic protection system.



- xxvi. The company shall develop a contingency plan for H<sub>2</sub>S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H<sub>2</sub>S detectors in locations of high risk of exposure along with self containing breathing apparatus.
- xxvii. Adequate well protection system shall be provided like Blow Out Preventor (BOP) or diverter systems as required based on the geological formation of the blocks.
- xxviii. The top soil removed shall be stacked separately for reuse during restoration process.
- xxix. Emergency Response Plan shall be based on the guidelines prepared by OISD, DGMS and Govt. of India. Recommendations mentioned in the Risk Assessment & Consequence Analysis and Disaster Management Plan shall be strictly followed.
- xxx. Project proponent shall comply with the environment protection measures and safeguards recommended in the EIA/EMP/risk analysis report/disaster management plan.
- xxxi. The company shall take measures after completion of drilling process by well plugging and secured enclosures, decommissioning of rig upon abandonment of the well and drilling site shall be restored in original condition. In the event that no economic quantity of hydrocarbon is found a full abandonment plan shall be implemented for the drilling site in accordance with the applicable Indian Petroleum Regulations.
- xxxii. Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.
- xxxiii. Company shall adopt Corporate Environment Policy as per the Ministry's O.M. No. J-11013/41/2006-IA.II(I) dated 26<sup>th</sup> April, 2011 and implemented.
- xxxiv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

**B. GENERAL CONDITIONS:**

- i. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and any other statutory authority.
- ii. No further expansion or modification in the project shall be carried out without prior approval of the Ministry of Environment & Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- iii. The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable. ✓



- iv. The project authorities must strictly comply with the rules and regulation with regarding to handling and disposal of Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 wherever applicable. Authorization from the State Pollution Control Board must be obtained for collections/ treatment/ storage/disposal of hazardous wastes.
- v. The overall noise levels in and around the plant area shall be kept well within the standards 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 EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
- vi. A separate Environmental Management Cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.
- vii. Sufficient funds shall be earmarked for environment protection and pollution control measures shall be used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government alongwith the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.
- viii. The Regional Office of this Ministry/Central Pollution Control Board/State Pollution Control Board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.
- ix. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.
- x. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the WBPCB. The criteria pollutant levels namely; SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub>, HC (Methane & Non-methane), VOCs (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- xi. 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 Regional Office of MOEF, the respective Zonal Office of CPCB and the WBPCB. The Regional Office of this Ministry / CPCB / WBPCB shall monitor the stipulated conditions.
- xii. The environmental statement for each financial year ending 31<sup>st</sup> 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. ✓



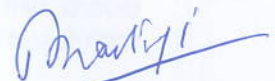
xiii. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the WBPCB and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This shall 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.

xiv. 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.

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

8.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

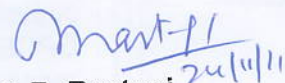
9.0 The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules



(Dr. P. B. Rastogi)  
Director

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, Chandrashekharpur, Bhubaneswar - 751 023, Orissa.
5. Adviser (IA-II), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Guard File / Monitoring File / Record File.



(Dr. P. B. Rastogi)  
Director



# THE TELEGRAPH CALCUTTA TUESDAY 6 DECEMBER 2011

## notice

**Public Notice**

Notice is hereby given that the following sub-broker/s is/are no longer affiliated as sub-broker of I/s Religare Securities Limited (formerly known as Fortis Securities Limited) trading member of SE with SEBI Registration Number NB230653732 and trading member of BSE with SEBI Reg. No. NB010653732 having the registered office at D3, 3B, District Centre, Market New Delhi-110017. Any person henceforth dealing with below mentioned sub-broker should do so at their own risk, M/s Religare Securities Limited (formerly known as Fortis Securities Limited) shall not be liable for any dealings with them.

**Sub-Broker Name:** Swarup Mukherjee,  
**Trade Name of Subbroker:** Swarup Mukherjee, SEBI Reg No. SE: INS238848910/

## notice

### PUBLIC NOTICE

We inform all concerned that the Ministry of Environment & Forests, Government of India has accorded Environmental Clearance to the following project vide letter no. J-11011/352/2010-IAII(I),  
Date : 24th November 2011.

**EXPANSION OF EXPLORATION & PRODUCTION OF COAL BED METHANE GAS IN RANIGANJ (SOUTH), CBM BLOCK WEST BENGAL BY M/S GREAT EASTERN ENERGY CORPORATION LTD.**

Copy of Environmental Clearance letter is available with West Bengal Pollution Control Board and at the Website of the Ministry of Environment & Forest at <http://www.envfor.nic.in> for viewing of the public.

## tender

KOLKATA

## tender

(M) respectively. Details

## TOD

### DELHI



**MAX 29°C —**  
Hazy environs likely morning. A few clouds.  
Max. relative humidity

### CALCUTTA



**MAX 31°C —**  
Haze in general and during the morning.  
Max. relative humidity

### MUMBAI



**MAX 33°C —**  
Haze/smoke-haze in warm and mainly sunny.  
Max. relative humidity

### CHENNAI



**MAX 31°C —**  
A pleasant morning day will be warm and sunny.  
Max. relative humidity



তিন DABE

আনন্দবাজার পত্রিকা কলকাতা  
৬ ডিসেম্বর ২০১১

নোটিশ

### বিশেষ বিজ্ঞপ্তি

এতদ্বারা সকলকে জানানো  
যাইতেছে যে ভারত সরকারের  
বন এবং পরিবেশ দপ্তর নিম্নলিখিত  
প্রোজেক্টের জন্য পরিবেশ সংক্রান্ত  
ছাড়পত্র দিয়েছেন লেটার নং  
J-11011/352/2010-IAH(I),  
তারিখঃ ২৪ শে নভেম্বর ২০১১  
মেসার্স স্টেট ইস্টার্ন এনার্জি  
কর্পোরেশন লিমিটেড দ্বারা  
রানিগঞ্জ (দক্ষিণ) সি.বি.এম  
ব্লক, পশ্চিমবঙ্গ স্ট্রীট কয়লায়  
নিহিত মিথেন গ্যাসের  
উৎসনন ও উৎপাদনের বিস্তার  
পরিবেশ সংক্রান্ত ছাড়পত্র মূলক চিঠি  
উপলব্ধ হবে পশ্চিমবঙ্গ দূষণ নিয়ন্ত্রণ  
পর্ষদ এবং বন ও পরিবেশ দপ্তরের  
ওয়েবসাইট <http://www.envfor.nic.in>  
জনসাধারণের অবহিত হওয়ার জন্য।

বিজ্ঞাপনের জন্য  
যোগাযোগ:  
২২৬০ ০৫২২,  
২২৬০ ০৫৬৮

টেন্ডার

### TENDER NOTICE

N.I.T. NO:SEPCO/  
Contract-20/2011-12  
/213 dt. 28.11.11  
Estimated  
amount  
Rs.15,18,000.00

S ealed tender is  
invited on behalf  
of SEPCO from  
experienced,  
bonafied &  
resourceful  
Contractor for maint  
of B.T.Road by  
repairing Pot holes  
& Premixed  
Carpeting of several  
streets at SEPCO  
in Phase-II.  
Sale of Tender Paper:  
07.12.11 to 14.12.11  
on working days from  
10.30 a.m. to 1 p.m.  
For details contact:  
Secretary,SEPCO  
Mob:9002989229

আপনি কি আনন্দবাজার পত্রিকায়  
বিজ্ঞাপন দিতে চান?

বিস্তারিত জানতে ফোন করুন:  
অভিজিৎ-98315 81002, অনিন্দ্য-94331 85185  
অনিবার্ণ-98301 20396

\* \* \* \* \*

ANANDABAZAR PATRIKA

06/12/2012