



# मध्यप्रदेश पॉवर जनरेटिंग कम्पनी लिमिटेड

(मध्यप्रदेश शासन का उपकर्म)

कार्यालय-कार्यपालन अभियंता (सिविल)निर्माण संभाग-दो

अमरकंटक ताप विद्युत गृह चर्चाई, जिला-अनूपपुर (म0प्र0) 484220

(CIN-U40109MP2001SGC014882)

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क्रमांक 001-7300/कार्य/ 229

चर्चाई दिनांक 14/08/2023

प्रति,

प्रधान मुख्य वन संरक्षक(भू-प्रबंध)

मध्यप्रदेश भोपाल।

द्वारा:- वन मंडलाधिकारी, सामान्य वनमंडल, अनूपपुर मध्यप्रदेश।

विषय:- अनूपपुर जिले के अन्तर्गत वनमंडल अनूपपुर में अमरकंटक ताप विद्युत गृह चर्चाई में 1x660 MW सुपर क्रिटिकल इर्काई की स्थापना-इर्काई के उपसंगीय निर्माण कार्य हेतु 6.171 हेक्टेयर आरक्षित वन भूमि कार्यपालन अभियंता (सिविल) निर्माण संभाग - दो मध्य प्रदेश पॉवर जनरेटिंग कंपनी लिमिटेड को उपयोग पर देने बावत्।

संदर्भ:- 1.भारत सरकार पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय क्षेत्रीय कार्यालय, भेपाल का पत्र क्रमांक/6-एमपीआर 009/2022 - बीएचओ/दिनांक 18.07.2023.

2. आपका पत्र क्रमांक/एफ-4/41/2022/10-11/3348 भोपाल दिनांक 26/07/2023.

उपरोक्त विषयान्तर्गत संदर्भित पत्र के द्वारा अनूपपुर जिले के अन्तर्गत वनमंडल अनूपपुर में अमरकंटक ताप विद्युत गृह चर्चाई में 1x660 MW सुपर क्रिटिकल इर्काई की स्थापना-इर्काई के उपसंगीय निर्माण कार्य हेतु 6.171 हेक्टेयर आरक्षित वन भूमि कार्यपालन अभियंता (सिविल) निर्माण संभाग - दो मध्य प्रदेश पॉवर जनरेटिंग कंपनी लिमिटेड को उपयोग पर देने बावत् भारत सरकार द्वारा 07 बिन्दुओं की अतिरिक्त चाही गई जानकारी आवश्यक कार्यवाही हेतु प्रेषित है।

क्र	वांछित जानकारी/स्पष्टीकरण	उत्तर
1.	The concerned DFO shall re-visit the area and submit she inspection report along with status of violation(if any) of the proposed diversion area.	Inspection report has to be submit by DFO Anuppur.
2.	Compliance report of previous approval letter dtd 08/06/2006 under F(C) A.	The Compliance report of previous approval letter dtd 08/06/2006 under F(C) A Has been attached with this letter.
3.	The state Forest Department/user agency shall submit a copy of environmental clearance and their compliance report.	The copy of environmental clearance for 1x660MW exte nsion unit issued by MOEF & dtd. 08/05/2023. The standard EC conditions mentioned in above environmental clearance shall be

		complied by M.P. power generating Co. Limited Chachai during time of establishment of project & subsequently in its operation as deem fit in due course of time.
4.	The user agency/ State Forest Department shall submit/upload entire KML file of forest area and non-forest area of the project (In different colors) which obtained by user agency from Govt. of MP/Govt. of India.	KML file of compartment No -82 Khutwa block showing forest area and non-forest area has been Marked in different color's. Submitted for further need full please.
5.	The Regional office, Bhopal shall monitor the project and submit status report on the conditions imposed in Environmental Clearance.	The status report on the condition imposed in Environmental clearance to be submitted by the regional office Bhopal.
6.	Component wise breakup of proposed diversion area shall be submitted.	The details of diversion area is enclosed here with.
7.	Muck calculation details shall be submitted.	Muck calculation details has been submitted as per attached sheet.

प्रतिलिपि:-

1. मुख्य अभियंता (उत्पादन) अ.ता.वि.गृह चचाई।
2. मुख्य अभियंता (सिविल अभि.) म.प्र.पा.ज.कं. लि. जबलपुर।
3. अधीक्षण अभियंता (सिविल) म.प्र.पा.ज.कं. लि. चचाई।

कार्यपालन अभियंता (सिविल)  
निर्माण संभाग-दो  
अ.ता.वि.गृह,म०प्र०पा०ज०क०लि.चचाई

कार्यपालन अभियंता (सिविल)  
निर्माण संभाग-दो  
अ.ता.वि.गृह,म०प्र०पा०ज०क०लि.चचाई

ग/८

मध्य प्रदेश पावर जनरेटिंग कंपनी लिमिटेड चर्चाई

क्रमांक 001-73/मू-अर्जन/875

चर्चाई, दिनांक 21/7/06

प्रति,

वन मण्डल अधिकारी  
वन मण्डल, अनूपपुर.

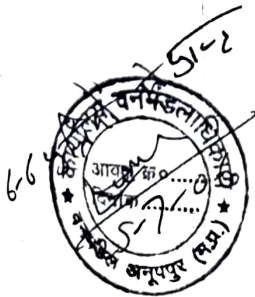
विषय:- अनूपपुर जिले के अन्तर्गत अमरकंटक ताप विद्युत गृह चर्चाई में 210 मे.वा. यूनिट क.5 के विस्तार इकाई के उपसंगीय निर्माण के लिए 3.668 हे. वन भूमि का प्रत्यावर्तन वावतु।

सन्दर्भ:- 01. आपका पत्र क्रमांक: मा.वि./2493 अनूपपुर, दिनांक 03-07-06.  
02. भारत सरकार पर्यावरण एवं वनमण्डल का ज्ञापन क.6 एम.पी.वी.085/2005/BHO/1057 दि.08-06-2006.

उपरोक्त संदर्भित पत्र क.2 में वर्णित प्रतिरोपित शर्त क.5 के अनुसार पर्यावरण प्रभाव अधिसूचना 1994 के अन्तर्गत पर्यावरण एवं वन मंत्रालय नई दिल्ली की स्वीकृति की छाया प्रति तथा अन्य शर्तों के पालन प्रतिवेदन एवं वचन पत्र प्रतिवेदन 6-6 प्रतियों में संलग्नकर अग्रिम कार्यवाही हेतु प्रस्तुत किया जा रहा है।

संलग्न:- 01. स्वीकृति प्रमाण पत्र - 6 प्रतियों में.  
02. शर्तों का पालन प्रतिवेदन - 6 प्रतियों में.  
03. वचन पत्र - 6 प्रतियों में.

अति.अधीक्षक अभियंता (सि.) निर्माण संभाग  
म.प्र.पावर जनरेटिंग कंपनी लिमिटेड  
चर्चाई, जिला-अनूपपुर (म.प्र.)





भारत सरकार पर्यावरण एवं वन मंत्रालय के पत्र क्र. 6/MPB 085/ BHO/1057 दिनांक 08-06-06 के परिपालन में 3.688 हे. वन भूमि के शर्तों का पालन प्रतिवेदन

क्र.	शर्तें	क्र.	पालन
01	वन भूमि का वैधानिक स्वस्व्य अपरिवर्तित रहेगा	01.	वन भूमि का स्वस्व्य परिवर्तित नहीं किया जावेगा।
02.(अ)	वन विभाग द्वारा उपयोग कर्ता के छर्च पर जिला-अनूपपुर, तहसील-अनूपपुर के ग्राम-चचाई आवाव के पटवारी हल्का केल्होरी नं.46 के खसरा क्र. 230, 231, 232, 247/1 एवं 2 248, 249 व 260 में 3.67 हे. गैर वन भूमि पर इस आवेश के जारी होने के दो वर्ष के अन्दर क्षतिपूरक वृक्षा रोपण किया जायेगा।	शर्त क्र.2/अ, 2/ब एवं 2/स का पालन वन विभाग द्वारा किया जावेगा।	
02.(ब)	इस गैर वन भूमि को आरक्षित वन के रूप में घोषित किया जावेगा		
02.(स)	इस गैर वन भूमि को भारतीय वन अधिनियम की धारा-4 के अन्तर्गत आरक्षित वन घोषित करने सम्बन्धी मूल अधिसूचना की प्रति उपयोग कर्ता अभिकरण को यह वन भूमि सौंपने के 6 माह के अन्दर नोटल अधिकारी द्वारा इस कार्यालय को प्रेषित की जायेगी।		
03.	शुद्ध वर्तमान मूल्य की दर का पुनरीक्षण (REVISION) सर्वोच्च न्यायालय द्वारा गठित विशेषज्ञ समिति के विचाराधीन है। उपयोग कर्ता अभिकरण से इस आशय का एक बचन पत्र (UNDER TAKING) लिया जाय कि शुद्ध वर्तमान मूल्य की दर से उर्ध्वगामी/ उर्ध्वमुखी (UPWARD) पुरीक्षण की स्थिति में उसे उपयोग कर्ता अभिकरण द्वारा पुनर्तापन किया जावेगा।	03.	बचन पत्र संलग्न है।

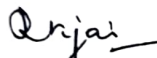



क.	शर्तें	क.	पालन
04.	परियोजना के अन्तर्गत उपयोग कर्ता अभिकरण से प्राप्त समस्त निधि कैम्पा (CAMPA) को त्स्तान्तरित की जायेगी जब तक इस संबंध में उपयुक्त लेखा शीर्ष को संसूचित किया जाये तब तक पर्यावरण एवं वन मंत्रालय द्वारा दि. 22-03-04 को जारी दिशा निर्देशों के अनुसार उक्त निधियां संबंधी संबंधित वन मण्डलाधिकारी या नोडल अधिकारी के नाम से किसी राष्ट्रीयकृत बैंक में नियत जमा के रूप में रखी जावेगी। NETPRESENT VALUE हेतु उपयोग कर्ता द्वारा जमा की गई धन राशि का उपयोग राज्य सरकार द्वारा नहीं किया जायेगा।	04.	म.प्र.रा.वि.मं. द्वारा नेट प्रजेन्ट वैल्यू रु. 21,27,440/- देक कर्माक 118240 दि. 31-12-05 से वन मण्डल अधिकारी अनूपपुर के पक्ष में जमा किया गया है।
05.	पर्यावरण प्रभाव अधिसूचना 1994 के अन्तर्गत पर्यावरण एवं वन मंत्रालय नई दिल्ली से आवश्यक स्वीकृति लेने के उपरान्त ही कार्य प्रारंभ किया जावेगा।	05.	भारत सरकार पर्यावरण एवं वन मंत्रालय नई दिल्ली द्वारा आवश्यक स्वीकृति प्राप्त है। पूर्व में भी इस कार्यालय के पत्र क्र. 220 दि. 01-07-06 के तहत पत्र की छाया प्रति भेजी जा चुकी है। पुनः पत्र की छाया प्रति संलग्न है।
06.	वन भूमि का उपयोग प्रस्तावित कार्य के अतिरिक्त अन्य किसी कार्य के लिये नहीं किया जायेगा।	06.	वन भूमि का उपयोग प्रस्तावित कार्य को छोड़ कर अन्य किसी कार्य के लिये नहीं किया जायेगा।

अति.अधीक्षक अभियंता (सि.) निर्माण संचालन  
म.प्र.पावर जनरेटिंग कम्पनी लिमिटेड  
चवाई, जिला-अनूपपुर (म.प्र.)

## वचन-पत्र

अनूपपुर जिले की वन खण्ड क. 82 की 3.688 हे. वन भूमि 210 मे.वा. इकाई के उपसंगीय निर्माण कार्य हेतु भारत सरकार पर्यावरण एवं वन मंत्रालय के पत्र क. 6-MPB 085/2005-BHO/1057 दि. 08-06-2006 के द्वारा स्वीकृति प्रदान की गई है। शुद्ध वर्तमान मूल्य की दर के. उर्वर्णामी/उर्वर्णमुखी पुनरीक्षण की स्थिति में जो भी मूल्य निर्धारण होगा उपयोग कर्ता उसे भुगतान करने के लिये वचन बद्ध है।

  
मुख्य अभियंता (उत्पा.)  
म.प्र. पावर जनरेटिंग कम्पनी लिमिटेड  
चच्चाई, जिला-अनूपपुर (म.प्र.)

  
अति.अधीक्षक अभियंता (सि.) निर्माण संभाग  
म.प्र. पावर जनरेटिंग कम्पनी लिमिटेड  
चच्चाई, जिला-अनूपपुर (म.प्र.)





भारत सरकार  
GOVERNMENT OF INDIA  
पर्यावरण एवं वन मंत्रालय  
MINISTRY OF ENVIRONMENT & FORESTS

क्षेत्रीय कार्यालय, पश्चिम क्षेत्र  
Regional Office, Western Region.

"Kendriya Paryavaran Bhavan"  
लिंक रोड नं 3/Link Road No. 3  
E-5, तिरुशंकर नगर/Ravi Shankar Nagar,  
भोपाल (462016) (M.P.)  
फोन- 2465054, 2463102, 2465496, 2466525  
Rkkj/Telegram: CENTFOREST  
गुपतांक/E-mail: rccfbhopal@gmail.com

कमांक: 6-MPB085/2005-BHO/1057

दि. 08-06-2006

प्रधान सचिव,

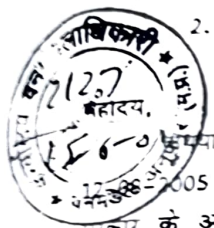
मध्य प्रदेश शासन,

वन विभाग,

केन्द्रीय भवन, भोपाल ।

अनूपपुर जिले के अन्तर्गत अमरकंटक ताप विद्युत गृह चर्चाई में 210 मेगावाट यूनिट कमांक-5 के विस्तार ईकाई के उपसंगीय कार्य निर्माण के लिए 3.668 हे० वनभूमि का प्रत्यावर्तन बाबत ।

- संदर्भ: 1. इस कार्यालय का पत्रांक 6-MPB085/2005-BHO/1923 दिनांक 22-9-2005  
2. मु०व०स०(भू-प्रबंध), मध्य प्रदेश का पत्रांक एफ-4/14/2005/10-11/विद्युत/1067 दिनांक 26/05/06



मध्य प्रदेश शासन के उक्त विषयक पत्रांक एफ-4-14/21/2005/10-11/विद्युत/2015 दिनांक 22-9-2005 का संदर्भ ग्रहण करें जिसके द्वारा वन (संरक्षण) अधिनियम, 1980 की धारा-2 के अन्तर्गत केन्द्र सरकार के अनुमोदन का अनुरोध किया गया था ।

उक्त वनभूमि के उल्लिखित उद्देश्य हेतु प्रत्यावर्तन के लिए, इस कार्यालय के उपरोक्त संदर्भित पत्र

(1) द्वारा उसमें लगायी गयी शर्तों के अधीन, सिद्धान्ततः सहमति दी गयी थी ।  
उपरोक्त संदर्भित पत्र (2) द्वारा नोडल अधिकारी, छत्तीसगढ़ शासन ने उक्त शर्तों की पूर्ति का अनुपालन प्रतिवेदन प्रस्तुत किया है । अतः अधोहस्ताक्षरी द्वारा केन्द्र सरकार की ओर से अनूपपुर जिले के अन्तर्गत अमरकंटक ताप विद्युत गृह चर्चाई में 210 मेगावाट यूनिट कमांक-5 के विस्तार ईकाई के उपसंगीय कार्य निर्माण के लिए 3.668 हे० वनभूमि का वनेतर उपयोग के लिये वन (संरक्षण) अधिनियम, 1980 की धारा-2 के अन्तर्गत निम्नलिखित शर्तों पर औपचारिक अनुमोदन किया जाता है:-

- वनभूमि का वैधानिक स्वरूप अपरिवर्तित रहेगा ।
- अ) वन विभाग द्वारा उपयोगकर्ता के खर्च पर जिला-अनूपपुर, तहसील-अनूपपुर के ग्राम-चर्चाई आवाद के पटवारी हल्का केलहोरी नं० 16 के खसरा कमांक 230, 231, 232, 247, 182, 248, 249 व 260 में 3.670 हे० गैर वनभूमि पर इस आदेश के जारी होने के दो वर्ष के अन्दर क्षतिपूर्क वृक्षारोपण किया जायेगा ।

ब) इस गैरवनभूमि को आरक्षित वन के रूप में घोषित किया जायेगा ।

KARTIK APP ORDER OTHERS



(स) इस गैर वनभूमि का भारतीय वन अधिनियम की धारा-4 के अन्तर्गत आरक्षित वन घोषित करने सम्बन्धी मूल अधिसूचना की एक प्रति उपयोगकर्ता अधिकरण को यह वनभूमि सीपने के 6 माह के अन्दर नोडल अधिकारी द्वारा इस कार्यालय को प्रेषित की जाएगी।

3. शूट वर्तमान मूल्य का दर का पुनरीक्षण (Revision) सर्वोच्च न्यायालय द्वारा गठित विशेषज्ञ समिति के विचारधीन है। उपयोगकर्ता अधिकरण से इस आशय का एक वचनपत्र (Undertaking) लिया जाए कि शूट वर्तमान मूल्य की दर के उर्ध्वगामी/उर्ध्वमुखी (Upward) पुनरीक्षण की स्थिति में, उसे उपयोगकर्ता अधिकरण द्वारा भुगतान किया जायेगा।
4. पर्यावरण के अन्तर्गत उपयोगकर्ता अधिकरण से प्राप्त समस्त निधि कैम्पा (CAMP) को इस्तेमाल की जायेगी। जब तक इस सम्बन्ध में उपयुक्त लेखाशीर्ष को संसूचित (Communicate) किया जाये, तब तक पर्यावरण एवं वन मंत्रालय द्वारा दिनांक 22/03/2004 को जारी दिशा निर्देशों के अनुसार उक्त निधियाँ संबंधित वनमण्डलाधिकारी या नोडल अधिकारी के नाम से किसी राष्ट्रीय कृत बैंक नियत जमा (Fixed Deposit) के रूप में रखी जायेगी। Net Present Value हेतु उपयोगकर्ता द्वारा जमा की गई धनराशि का उपयोग राज्य सरकार द्वारा नहीं किया जायेगा।
5. पर्यावरण प्रभाव आगसूचना, 1994 के अन्तर्गत पर्यावरण एवं वन मंत्रालय, नई दिल्ली से आवश्यक स्वीकृति लेने के उपरान्त ही कार्य प्रारम्भ किया जायेगा।
6. वनभूमि का उपयोग प्रस्तावित कार्य के अतिरिक्त अन्य किसी कार्य के लिए नहीं किया जायेगा।

भवदीय,

(सुंजाय बैनजी)

उप वन संरक्षक (केंद्रीय)

प्रतिलिपि:

1. निदेशक(एफ0सी0) पर्यावरण एवं वन मंत्रालय, पर्यावरण भवन, सी0जी0ओ0 काम्पलेक्स, लोदी रोड, ई दिल्ली।
2. मुख्य वन संरक्षक(भू-प्रबंध) एवं नोडल अधिकारी, मध्यप्रदेश, वन विभाग, सतपुड़ा भवन, भोपाल।
3. वनमण्डलाधिकारी, सामान्य वनमण्डल अनुपपुर, जिला-अनुपपुर, मध्यप्रदेश।
4. अतिरिक्त अधीक्षण अभियन्ता(सिविल), निर्माण संभाग, मध्यप्रदेश राज्य विद्युत मण्डल चर्चा जिला-अनुपपुर, मध्यप्रदेश।
5. आदेश पत्रावली।

(सुंजाय बैनजी)

उप वन संरक्षक (केंद्रीय)

KARTIKAPTORORDEROTHERS



Government of India  
Ministry of Environment, Forest and Climate Change  
(Impact Assessment Division)

To,

The Executive Director (PRG)  
MP POWER GENERATING COMPANY LTD JABALPUR  
MPPGCL, Shed No 1, 2 Vidyut Nagar, Rampur, Jabalpur  
(MP), Jabalpur, Madhya Pradesh-482008

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity  
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)  
in respect of project submitted to the Ministry vide proposal number  
IA/MP/THE/10749/2003 dated 16 Mar 2022. The particulars of the environmental  
clearance granted to the project are as below.

1. EC Identification No. **EC23A004MP192622**
2. File No. **J-13012/07/2019-IA.I(T)**
3. Project Type **Expansion**
4. Category **A**
5. Project/Activity including Schedule No. **1(d) Thermal Power Plants**
6. Name of Project **1x210 MW Amarkantak Thermal Power Station**
7. Name of Company/Organization **MP POWER GENERATING COMPANY LTD JABALPUR**  
**Madhya Pradesh**  
**N/A**
8. Location of Project
9. TOR Date

The project details along with terms and conditions are appended herewith from page  
no 2 onwards.

(e-signed)  
Yogendra Pal Singh  
Scientist E

IA - (Thermal Projects sector)

Date: 08/05/2023

*Note: A valid environmental clearance shall be one that has EC identification  
number & E-Sign generated from PARIVESH. Please quote identification  
number in all future correspondence.*

*This is a computer generated cover page.*

**F. No. J-13012/07/2019-IA.I (T)**  
**Government of India**  
**Ministry of Environment, Forest & Climate Change**  
**(Impact Assessment Division)**

Indira Paryavaran Bhawan  
2nd Floor, Vayu Wing  
Jor Bagh Road  
New Delhi - 110 003

**Dated: 01<sup>st</sup> May, 2023**

To,

**M/s MP Power Generating Company Ltd.**  
MPPGCL, Shed No 1, 2 Vidyut Nagar,  
Rampur, Jabalpur (MP), Jabalpur,  
Madhya Pradesh - 482 008

**Sub: 1x660MW Amarkantak Supercritical Thermal Power Project (Expansion) in place of existing Amarkantak Thermal Power Station (Phase - I & II: 290 MW) in area of 90.24ha, Chachai Village, District Anuppur, Madhya Pradesh by M/s M. P. Power Generating Company Ltd. - Environmental Clearance (EC) - reg.**

Sir,  
This has reference to your online Proposal No. IA/MP/THE/10749/2003 and dated 16<sup>th</sup> March, 2022 submitted to the Ministry for grant of Environmental Clearance to the project cited in the subject.

2. The Ministry of Environment, Forest and Climate Change has considered the application. It is noted that the proposal is for grant of EC to the project for 1x660MW Amarkantak Supercritical Thermal Power Project (Expansion) in place of existing Amarkantak Thermal Power Station (Phase - I & II: 290 MW) in area of 90.24ha. Chachai Village, District Anuppur, Madhya Pradesh by M/s M. P. Power Generating Company Ltd.

3. Total land requirement for proposed plant is 223 acres. Land for main plant & equipment will be available after dismantling of PH-I & PH-II units within the ATPS site boundary. For proposed plant, land requirement is about 0.34 acres / MW against 0.35 acres / MW as per Central Electrical Authority (CEA) guidelines September, 2010. Forest area of 6.171 Ha (15.249 Ac) exists within proposed plant area. ATPS has submitted online application for diversion of forest area under Forest (conservation) Act, 1980, in line with the ministry's Office Memorandum dated, 31/03/2011. There is no additional land acquisition and no R&R involved in the project.

4. Total estimate cost of the project is Rs. 4665.87 Crores and EMP cost (Capital Cost): Rs. 768.75 Crores.

5. The ToR for the project was granted on 10.10.2019. Public Hearing for the proposed project has been conducted by the State Pollution Control Board on 17.12.2020.

6. Earlier the environmental clearance was granted by the Ministry vide letter No J- 13011/ 20/2002-IA.II (T) dated 29<sup>th</sup> April 2004 for 1X210 MW Amarkantak Thermal Power Plant.



7. Project is based on 100% domestic coal supplied by Sangma & Korba side of South Eastern Coalfields Limited (SECL) with a coal linkage/ LOA of Representative grade G11; Indicative grade G9-G14; Annual coal consumption @85% PLF 4279 TPA/ MW; Normative requirement of 2.542 MTPA @90% as per CEA norms. Coal is transported to project site by Indian Railways & own rail system of MPPGCL. Support fuel LDO of about 2730 KL per year @0.5 ml/KWh is required for boiler start-up/support and for subsequent low load operations. Support fuel will be transported to plant handling area by road tankers or by railway wagons.

Consumptive water requirement of proposed plant is drawn by dedicated intake from Suthna reservoir (Chachai Lake)/Sone River water to Suthna reservoir. Proposed plant has a water allocation of 5.15 Million Cubic Meters per year (MCM) by Water Resource Department (WRD), Bhopal. Water requirement of 1x210 MW plant is drawn from Suthna reservoir by dedicated intake. Average fresh water requirement of plant is about 726 m<sup>3</sup>/h that is 3.46 m<sup>3</sup>/MWh (about 3.5 m<sup>3</sup>/MWh).

8. The Thermal Power projects are listed at S.N 1(d) of the Schedule to the Environment Impact Assessment (EIA) Notification under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

The salient features of the project are as under: -

Project Details	
Name of the Proposal	1x660MW Amarkantak Supercritical Thermal Power Project (Expansion) in place of existing Amarkantak Thermal Power Station (Phase - I & II: 290 MW) in area of 90.24ha, Chachai Village, District Anuppur, Madhya Pradesh by M/s M. P. Power Generating Company Ltd.
Proposal No.	IA/MP/THE/10749/2003
Location	Chachai Village, District Anuppur, Madhya Pradesh
Company's Name	Madhya Pradesh Power Generating Co. Limited (MPPGCL)
Accredited Consultant and certificate no.	Re Sustainability Solutions Private Limited (formerly Ramky Enviro Services Pvt Ltd) NABET/EIA/1922/RA0140 valid upto March 11, 2023
Inter- state issue involved	No
Seismic zone	Zone - III: Moderate Damage Risk Zone (MSK VII)
Category Details	
Category of the project	Category A
Capacity	Existing 1 x 210 MW Proposed (Expansion) 1 X 660 MW Supercritical TPP
Attracts the General Conditions (Yes/No)	No
4. Project Details	

*Handwritten signature*

If expansion, the details of ECs (including amendments and extension of validity) of existing Units etc.	EC details: No. J- 13011/ 20/2002.IA II(T) dated 29 <sup>th</sup> April 2004
Amendments granted, if Yes details	NA
Expansion / Green Field (new): (IPP / Merchant / Captive):	Expansion (Merchant)
If expansion, the date of latest monitoring done by the Regional Office (R.O) of MoEF&CC for compliance of the conditions stipulated in the environmental and CRZ clearances of the previous phases. A certified copy of the latest R.O. monitoring report shall also be submitted.	Site Visit by done by the Regional Office (R.O) of MoEF&CC on 12/13. 12.2019
Specific webpage address where all EC related documents (including monitoring and compliance related reports/documents) of the specific project under consideration are/will be available. Also contact details of PP's officer responsible for updating this webpage/information.	Not available
Average height of: (a) TPP site, (b) ash pond site etc. above MSL	TPP - 477 to 498 m above msl Ash pond - 477 to 484 m above msl
Whether the project is in the Critically Polluted Area (CPA) or within 10 km of CPA. If so, the details thereof:	No
CRZ Clearance	NA
Cost of the Project (As per EC and revised): Cost of the proposed activity in the amendment:	Rs 4665.87 (Crores)
Employment Potential for entire project/plant and employment potential for the proposed amendment (specify number of persons and quantitative information)	Construction Phase: 3100 people (Permanent 100; Temporary 3000) Operation phase: 400 people (Permanent 200; Temporary 200)
Benefits of the project (specify quantitative information)	Employment opportunities, increase in power generation to meet the power requirement of the state, economic development of the state
<b>Electricity Generation Capacity:</b> Capacity & Unit Configurations:	Existing plant 1x210 MW Proposed plant 1 x 660 MW Total Capacity after expansion = 870 MW

Generation of Electricity Annually	(210 x 24 x 365 x 0.85) / 1000 = 1563 MU (660 x 24 x 365 x 0.85) / 1000 = 4914 MU
<b>Details of Fuel &amp; Ash Disposal</b>	
Fuel to be used	Primary Fuel: Domestic coal Support Fuel: Light diesel oil (LDO)
Quantity of Fuel required per Annum:	Proposed TPP has a coal consumption of 4,279 Tonne per MW per Annum @ 85% PLF. Normative requirement of 2.542 MTPA (@ 90% as per CEA norms dated 23.3.2019) Support fuel Light Diesel Oil (LDO) of 2730 KL per year @ 0.5 ml/kwh for Boiler start-up / support and for subsequent low load operations
Coal Linkage / Coal Block: (If Block allotted, status of EC & FC of the Block)	Coal linkage/ LOA of Representative grade G11; Indicative grade G9-G14; with M/s South Eastern Coal fields Ltd (SECL) (mines allocation is not finalized). LOA for grant of coal linkage with SECL (minutes of 34th CLOA meeting dated 20th Dec 2019). Coal likely to be sourced from Sangma & Korba side of SECL
Details of mode of transportation of coal from coal source to the plant premises along with distances	Coal will be transported to project site by Indian railways & own rail system of MPPGCL (Tentative distance about 50 Km)
Fly Ash Disposal System Proposed	High / Medium / Lean concentration slurry.: Slurry
Ash Pond/ Dyke (Area, Location & Co-ordinates) Average height of area above MSL (m)	(If expansion project state additional area required for ash pond): As directed by EAC existing ash pond of 1x210 unit will be utilized. The available ash pond area (1x210 TTP) is 67.7 Ac (27.4 Ha). Proposed project, as per notification no. S.O.54819E 31st Dec, 2021 is eligible for an emergency or temporary ash pond with an area of 163.1Ac (66 Ha) @ 0.1 Ha per MW. Even if the directives of EAC to utilize ash pond of 210 MW is considered, the project is eligible for a differential ash pond area of 95.4 Ac (38.6 Ha [(163.1 Ac - 67.7 Ac) or (66 Ha - 27.4 Ha)] which including the 33% greenbelt area 31.6 Ac (12.8 Ha) along the ash dyke, the requirement will be to the tune of 127 Ac (51.4 Ha) say 52 Ha. Hence, we request the honourable EAC to allow to utilize 128 Ac (52 Ha) of land for new ash pond. On approval from EAC / MOEF&CC, we will utilize 128 Ac (52 Ha) for ash pond, within which 33% of area will be developed as Green Belt. Ash Pond Location: 23°10'40.26"N 81°36'59.52"E. Elevation: 477 to 484 m above msl
Quantity of a. Fly Ash to be generated b. Bottom Ash to be generated:	Fly Ash Worst coal: 1.12 MTPA



	Linked coal: 0.79 MTPA Bottom Ash Worst coal: 0.48 MTPA Linkage coal: 0.34 MTPA
Fly Ash utilization (details)	(MoU with Cement/Brick Manufactures/ Others): Utilization will be as per the applicable MoEF&CC guideless from time to time (MOEF&CC, New Delhi notification S.O. 54819E dated 31 <sup>st</sup> December 2021)
Stack Height (m) & Type of Flue	100 (m) (new for 1x660 MW unit) Single/Bi/Tri Flue: Single
<b>Water Requirement</b>	
Source of Water:	Suthna Reservoir/ Sone River
Quantity of water requirement:	5.15 MCM allotted with Water Resources Department, MP Government
Distance of source of water from Plant:	Distance of sone river is 1.8 km from plant & Suthna reservoir is adjacent to plant
Whether barrage/ weir/ intake well/ jack well/ others proposed:	No
Mode of conveyance of water:	Pipeline
Status of water linkage:	(Date of allocation obtained): 07/03/2020
(If source is Sea water) Desalination Plant Capacity	Not applicable
Mode/ Management of Brine:	Not applicable
Cooling system	Induced/ Natural draft: Induced draft (Air cooled condenser)
<b>Land Area Break-up</b>	
TPP Site	TPP Site: Proposed 223 Ac (90.2 Ha), existing 145 Ac (58.7 Ha), Total after expansion 368 Ac (148.92 Ha). Ash Pond: Existing ash pond of 1x210 MW unit [67.70 Ac (27.4 Ha) outside plant boundary] Proposed Greenbelt 76.4 Ac (30.9 Ha), Existing 56.1 Ac (22.7 Ha) [35.1 Ac (14.2 Ha) inside the plant and 21 Ac (8.5 Ha) outside the plant boundary along the road]
Ash Pond	
Township	
Railway Siding & Others	
Raw Water Reservoir	
Green Belt	
Others	
Total (if expansion state additional land requirement)	
Status of land acquisition	Land for proposed unit is in possession of MPPGCL. However, acquisition of 14.249 Ac (6.171 Ha) forest land located within Power House premises is under process
Status of the project:	Not started waiting for EC
If under construction phase: please specify the reasons for delay, works completed till date and balance works along with expected date of completion	NA
If under operation phase, date of commissioning (COD) of each unit. Whether the plant was under shutdown since commissioning, details and reasons.	NA
<b>Presence of Environmentally Sensitive areas in the study area</b>	

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate /letter / Remarks	
Reserve Forest/Protected Forest Land	Yes	-	
National Park	No	-	
Wildlife Sanctuary	No	-	
Archaeological sites monuments/ historical temples etc.	No	-	
Names & distance of National parks, Wildlife sanctuaries, Biosphere reserves, Heritage sites Rivers, Tanks, and Reserve Forests etc. located within 10 km from the plant boundary:	<b>Name</b>	<b>Distance (km)</b>	<b>Direction</b>
	<b>Forests</b>		
	Burhar RF	Adjacent to site	N
Additional information (if any)	No		
<b>Court Case Details</b>			
Ar. litigation/ Court Case pertaining to the project	No		
Is the proposal under any investigation? If so, details thereof.	No		
Any violation case pertaining to the project:	No		
Additional information (if any)	Court case No.35/2022(CZ); with respect to Ash dyke breach, against existing unit 1X210 MW at ATPS is pending before NGT, Central Zone, Bhopal.		

10. The proposal for grant of EC was considered by the EAC (Thermal) in its 23<sup>rd</sup>, 31<sup>st</sup> and 36<sup>th</sup> meeting held on 7<sup>th</sup> April, 2022, 11<sup>th</sup> October, 2022 and 25<sup>th</sup> January, 2023 respectively. The EAC observed that EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. Issues raised during the public hearing have been duly addressed by the project proponent. The EAC after detailed deliberations on the information submitted and as presented during the meeting recommended for grant of Environmental Clearance to the project for 1x660MW Amarkantak Supercritical Thermal Power Project (Expansion) in place of existing Amarkantak Thermal Power Station (Phase - I & II: 290 MW) in area of 90.24ha, Chachai Village, District Anuppur, Madhya Pradesh submitted by M/s M. P. Power Generating Company Ltd, subject to compliance of applicable certain Standard EC conditions.

11. The recommendation of the Expert Appraisal Committee has been examined in the Ministry. The EC granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006, as amended. It does not tantamount/ construe to approvals/ consent/ permissions etc. required to be obtained or standards/ conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project.

12. Based on the proposal submitted by the project proponent and recommendations of the EAC (Thermal Power Sector), Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the project for 1x660MW Amarkantak Supercritical Thermal Power Project (Expansion) in place of existing Amarkantak Thermal Power Station (Phase - I & II: 290 MW) in area of 90.24ha,



Chachai Village, District Anuppur, Madhya Pradesh by M/s M. P. Power Generating Company Ltd, and the amendments therein, subject to compliance of applicable Standard EC conditions with the following specific conditions:-

## A. Specific Conditions

### I. Environmental Management

- (i) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.
- (ii) Peripheral Green belt (Three row plantation) with Miyawaki plantation technique of 15 m thickness along the plant boundary shall be developed with more than 90% survival rate of the plant species. It would be ensured that total 33% area of total project cover area is under green cover focusing on Ash Dyke area.
- (iii) Sal Plantation shall be done in 30.2 ha land available within project cover area at southern-east side of the plant as committed by the Project Proponent. Dedicated Nursery for Sal plantation shall be developed within two years. PP shall submit progress on Sal plantation & Nursery in Six monthly compliance report to IRO, MoEF&CC.
- (iv) Extensive green cover within 2 km range of the plant boundary shall be developed. An action plan in this regard to be prepared in consultation with CPCB/expert institution and submitted before Regional Office of the Ministry within 3 months.
- (v) 24X7 online monitoring system for ambient air quality shall be established with its connectivity with SPCB and CPCB server. Stack monitoring shall be done through 24X7 online monitoring system. The emission Standards for Municipal Solid Waste based Thermal Power Plants as per Municipal Solid Waste Rules, 2016 dated 8.4.2016 (S.O. 1357 (E)) shall be complied (Refer Part C of Schedule II of Municipal Solid Waste Rules, 2016 dated 8.4.2016 (S.O. 1357 (E))).
- (vi) Adequate dust extraction system such as cyclones/bag filters and water spray system in dusty areas such as waste delivery points, transfer areas and other vulnerable dusty areas shall be provided along with an environment friendly sludge disposal system. Water Sprinkling on roads shall be done in every 6 hours in winter season and 3 hours in summer season of roads within 1 km range approaching the plant. A logbook shall be maintained for the activity and be in six-monthly compliance report.
- (vii) LED display of air quality (Continuous Online monitoring) shall be installed on the roadside (within 1 km range) and nearby hotspots viz. residential colony, Schools Hospitals; maintenance of devices shall be done on regular basis.
- (viii) Everyday cleaning of road/Paved roads within 1 km range of plant site shall be ensured throughout the year through vacuum based vehicle.
- (ix) Environment Audit of plant shall be done annually and report shall be submitted to Regional office of the Ministry.
- (x) Project proponent shall explore the use of treated sewage water from the Sewage Treatment Plant of Municipality / local bodies/ similar organization located within 50km radius of the proposed power project to minimize the water drawl



from surface water bodies.

A detailed action plan regarding leachate handling shall be prepared and implemented in consultation with SPCB and the same shall be submitted to the Regional Office of the Ministry. Zero liquid discharge shall be adopted. Leachate shall be treated and reused. No treated leachate shall be discharged in any circumstances. Characteristics of Leachate and the treated leachate shall be monitored once in quarter and records shall be maintained.

- (ii) Oil and grease recovered from the treatment plant should be disposed only through authorized recyclers.
- xiii) Harnessing solar power within the premises of the plant particularly at available roof tops shall be carried out and status of implementation including actual generation of solar power shall be submitted along with half yearly monitoring report.
- (xiv) Fly ash handling shall be done strictly as per extent rules/regulations of the Ministry/CPCB issued from time to time.
- (xv) Monitoring of surface water quality and Ground Water quality shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall also be undertaken and results/findings submitted along with half yearly monitoring report.
- (xvi) A well designed rain-water harvesting system shall be put in place within six months, which shall comprise of rain water collection from the built up and open area in the plant premises and detailed record kept of the quantity of water harvested every year and its use.
- (xvii) No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up/ operation of the power plant. A list of all small and large water bodies shall be prepared after physical survey within 10 km radius of the project. A detailed conservation plan for all these water bodies shall be prepared and submitted before the Regional Office of the Ministry within 3 months. Implementation status of conservation plan be submitted in 6 monthly compliance report.
- (xviii) Watershed development plan shall be prepared focusing on micro watershed development within 10 km radius of the project.
- (xix) A detailed ecological monitoring and survey covering forestry, fisheries, wildlife and its habitat shall be done once in two years to assess the impacts of project on the local environment and ecology. Monitoring report shall be uploaded on the Parivesh Portal and a copy of the same be submitted to the regional office of MoEF&CC.
- (xx) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.

*[Signature]*

(xxi) An Environmental Cell headed by the Environment Manger with postgraduate qualification in environmental science/environmental engineering, shall be created. It shall be ensured that the Head of the Cell shall directly report to the Head of the Plant who would be accountable for implementation of environmental regulations and social impact improvement/mitigation measures.

(xxii) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.

(xxiii) The energy sources for lighting purposes shall preferably be LED based.

## II. Socio-economic

(xxiv) Public grievance redressal system shall be established under supervision of project head. The functioning of the system shall be reviewed every month.

(xxv) A vision document comprising prospective plan for implementation of various CER activities, plantation programme outside the project cover area, rejuvenation and conservation of water bodies within 5km radius of the project cover area, creation of sacred groves etc. shall be prepared and submitted to the Regional Office of the Ministry within 6 months. Implementation status of the same shall be reported to the Regional office in 6 monthly compliance report.

(xxvi) Epidemiological Study among population within 5 km radius of project cover area shall be carried out on regular interval (Once in two year) through independent agency. Necessary measures shall be taken as per findings of study in consultation with district administration. Action taken report shall be submitted to the Regional Office of the Ministry.

(xxvii) The Project Proponent shall submit the time- bound action plan to the concerned regional office of the Ministry within 6 months from the date of issuance of Environmental Clearance for undertaking the CER activities, committed during public consultation by the project proponent and as discussed by the EAC, in terms of the provisions of the MoEF&CC Office Memorandum No.22-65/2017-IA.III dated 30 September, 2020. The action plan shall be implemented within three years of commencement of the project.

(xxviii) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

(xxix) A multi-specialty Hospital shall be established to cater the need of population living within 10 km.

(xxx) Existing environmental clearance shall be transferred in the name of M/s MP Power Generating Company Ltd from M/s Madhya Pradesh State Electricity Board (MPSEB).

## III. Miscellaneous

(xxxi) The project proponent shall comply the order dated 21.03.2023 passed by the Hon'ble NGT in Original Application No. 35/2022 (CZ) by Budhsen Rathore vs Union of India & Ors.



(ii) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.

(xiii) All necessary clearance from the concerned Authority, as may be applicable should be obtained prior to commencement of project or activity.

### Standard EC Conditions for Thermal Power Sector:

#### **Statutory compliance:**

- (i) Emission Standards for Thermal Power Plants as per Ministry's Notification S.O. 3305(E) dated 7.12.2015, G.S.R.593 (E) dated 28.6.2018 and as amended from time to time shall be complied.
- (ii) Part C of Schedule II of Municipal Solid Wastes Rules, 2016 dated 08.04.2016 as amended from time to time shall be complied for power plants based on Municipal Solid Waste.
- (iii) MoEF&CC Notification G.S.R 02(E) dated 2.1.2014 as amended time to time regarding use of raw or blended or beneficiated/washed coal with ash content not exceeding 34% shall be complied with, as applicable.
- (iv) MoEF&CC Notifications on Fly Ash Utilization S.O. 763(E) dated 14.09.1999, S.O. 979(E) dated 27.08.2003, S.O. 2804(E) dated 3.11.2009, S.O. 254(E) dated 25.01.2016 as amended from time to time shall be complied.
- (v) Thermal Power Plants other than the power plants located on coast and using sea water for cooling purposes, shall achieve specific water consumption of 2.5 m<sup>3</sup>/MWh and Zero effluent discharge.
- (vi) The recommendation from Standing Committee of NBWL under the Wildlife (Protection) Act, 1972 should be obtained, if applicable.
- (vii) No Objection Certificate from Ministry of Civil Aviation be obtained for installation of requisite chimney height and its siting criteria for height clearance.
- (viii) Groundwater shall not be drawn during construction of the project. In case groundwater is drawn during construction, necessary permission be obtained from CGWA.

#### **II. Ash content/ mode of transportation of coal:**

- (i) EC is given on the basis of assumption of % of ash content and km distance of transportation in rail/road/conveyor/any other mode. Any increase of %ash content by more than 1 percent, and/or any change in transportation mode or increase in the transport distance (except for rail) require application for modifications of EC conditions after conducting the 'incremental impact assessment' and proposal for mitigation measures.

#### **III. Air quality monitoring and Management:**

- (i) Flue Gas Desulphurisation System shall be installed based on Lime/Ammonia dosing to capture Sulphur in the flue gases to meet the SO<sub>2</sub> emissions standard of 100 mg/Nm<sup>3</sup>.
- (ii) Selective Catalytic Reduction (SCR) system or the Selective Non-Catalytic Reduction (SNCR) system or Low NOX Burners with Over Fire Air (OFA) system shall be installed to achieve NOX emission standard of 100 mg/Nm<sup>3</sup>.



- (iii) High efficiency Electrostatic Precipitators (ESPs) shall be installed in each unit to ensure that particulate matter (PM) emission to meet the stipulated standards of 30 mg/Nm<sup>3</sup>.
- (iv) Stacks of prescribed height\_m shall be provided with continuous online monitoring instruments for SOX, NOx and Particulate Matter as per extant rules.
- (v) Exit velocity of flue gases shall not be less than 20-25 m/s. Mercury emissions from stack shall also be monitored periodically.
- (vi) Continuous Ambient Air Quality monitoring system shall be set up to monitor common/criteria pollutants from the flue gases such as PM10, PM2.5, SO2, NOX within the plant area at least at one location. The monitoring of other locations (at least three locations outside the plant area covering upwind and downwind directions at an angle of 120° each) shall be carried out manually.
- (vii) Adequate dust extraction/suppression system shall be installed in coal handling, ash handling areas and material transfer points to control fugitive emissions.
- (viii) Appropriate Air Pollution Control measures (DEs/DSs) be provided at all the dust generating sources including sufficient water sprinkling arrangements at various locations viz., roads, excavation sites, crusher plants, transfer points, loading and unloading areas, etc.

#### IV. Noise pollution and its control measures:

- (i) The Ambient Noise levels shall meet the standards prescribed as per the Noise Pollution (Regulation and Control) Rules, 2000.
- (ii) Persons exposed to high noise generating equipment shall use Personal Protective Equipment (PPE) like earplugs/ear muffs, etc.
- (iii) Periodical medical examination on hearing loss shall be carried out for all the workers and maintain audiometric record and for treatment of any hearing loss including rotating to non- noisy/less noisy areas.

#### V. Human Health Environment:

- (i) Bi-annual Health check-up of all the workers is to be conducted. The study shall take into account of chronic exposure to noise which may lead to adverse effects like increase in heart rate and blood pressure, hypertension and peripheral vasoconstriction and thus increased peripheral vascular resistance. Similarly, the study shall also assess the health impacts due to air polluting agents.
- (ii) Baseline health status within study area shall be assessed and report be prepared. Mitigation measures should be taken to address the endemic diseases.
- (iii) Impact of operation of power plant on agricultural crops, large water bodies (as applicable) once in two years by engaging an institute of repute. The study shall also include impact due to heavy metals associated with emission from power plant.
- (iv) Sewage Treatment Plant shall be provided for domestic wastewater.

#### VI. Water quality monitoring and Management:

- (i) Induced/Natural draft closed cycle wet cooling system including cooling towers shall be set up with minimum Cycles of Concentration (COC) of 5.0 or above for power plants using fresh water to achieve specific water consumption of 2.5 m<sup>3</sup>/MW hr. (Or) Induced/Natural draft open cycle cooling system shall be set up with minimum Cycles of Concentration (COC) of 1.5 or above for power plants using sea water.

In case of the water withdrawal from river, a minimum flow 15% of the average flow of 120 consecutive leanest days should be maintained for environmental flow whichever is higher, to be released during the lean season after water withdrawal for proposed power plant.

- i) Records pertaining to measurements of daily water withdrawal and river flows (obtained from Irrigation Department/Water Resources Department) immediately upstream and downstream of withdrawal site shall be maintained.
- v) Rainwater harvesting in and around the plant area be taken up to reduce drawl of fresh water. If possible, recharge of groundwater to be undertaken to improve the ground water table in the area.
- v) Regular (at least once in six months) monitoring of groundwater quality in and around the ash pond area including presence of heavy metals (Hg, Cr, As, Pb, etc.) shall be carried out as per CPCB guidelines. Surface water quality monitoring shall be undertaken for major surface water bodies as per the EMP. The data so obtained should be compared with the baseline data so as to ensure that the groundwater and surface water quality is not adversely impacted due to the project & its activities.
- (vi) The treated effluents emanating from the different processes such as DM plant, boiler blow down, ash pond/dyke, sewage, etc. conforming to the prescribed standards shall be re-circulated and reused. Sludge/ rejects will be disposed in accordance with the Hazardous Waste Management Rules.
- (vii) Hot water dispensed from the condenser should be adequately cooled to ensure the temperature of the released surface water is not more than 5 degrees Celsius above the temperature of the intake water.
- (viii) Based on the commitment made by the Project Proponent, Sewage Treatment Plants within the radius of 50 km from proposed project, the treated sewage of .....KLD from STP ..... (name) shall be used as an alternative to the fresh water source to minimize the fresh water drawl from surface water bodies.
- (ix) Wastewater generation of ..... KLD from various sources (viz. cooling tower blowdown, boiler blow down, wastewater from ash handling, etc) shall be treated to meet the standards of pH: 6.5-8.5; Total Suspended Solids: 100 mg/l; Oil & Grease: 20 mg/l; Copper: 1 mg/l; Iron: 1 mg/l; Free Chlorine: 0.5; Zinc: 1.0 mg/l; Total Chromium: 0.2 mg/l; Phosphate: 5.0 mg/l;
- (x) Sewage generation of .....KLD will be treated by setting up Sewage Treatment plant to maintain the treated sewage characteristics of pH: 6.5-9.0; Bio-Chemical Oxygen Demand (BOD): 30 mg/l; Total Suspended Solids: 100 mg/l; Fecal Coliforms (Most Probable Number): <1000 per 100 ml.

## VII. Risk Mitigation and Disaster Management:

- (i) Adequate safety measures and environmental safeguards shall be provided in the plant area to control spontaneous fires in coal yard, especially during dry and humid season.
- (ii) Storage facilities for auxiliary liquid fuel such as LDO and HFO/LSHS shall be made as per the extant rules in the plant area in accordance with the directives of Petroleum & Explosives Safety Organisation (PESO). Sulphur Content in the liquid fuel should not exceed 0.5%.
- (iii) Ergonomic working conditions with First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
- (iv) Safety management plan based on Risk Assessment shall be prepared to limit the risk exposure to the workers within the plant boundary.
- (v) Regular mock drills for on-site emergency management plan and Integrated Emergency Response System shall be developed for all kind of possible disaster situations.



### VIII. Green belt and Biodiversity conservation:

- (i) Green belt shall be developed in an area of 33% of the total project with indigenous native tree species in accordance with CPCB guidelines. The green belt shall inter-alia cover an entire periphery of the plant.
- (ii) *In-situ/ex-situ* Conservation Plan for the conservation of flora and fauna should be prepared and implemented.
- (iii) Suitable screens shall be placed across the intake channel to prevent entrainment of life forms including eggs, larvae, juvenile fish, etc., during extraction of seawater.

### IX. Waste management:

- (i) Solid waste management should be planned in accordance with extant Solid Waste Management Rules, 2016.
- (ii) Toxicity Characteristic Leachate Procedure (TCLP) test shall be conducted for any substance, potential of leaching heavy metals into the surrounding areas as well as into the groundwater.
- (iii) Ash pond shall be lined with impervious liner as per the soil conditions. Adequate dam/dyke safety measures shall also be implemented to protect the ash dyke from getting breached.
- (iv) Fly ash shall be collected in dry form and ash generated shall be used in phased manner as per provisions of the Notification on Fly Ash Utilization issued by the Ministry and amendment thereto. By the end of 4<sup>th</sup> year, 100% fly ash utilization should be ensured. Unutilized ash shall be disposed off in the ash pond in the form of High Concentration Slurry. Mercury and other heavy metals (As, Hg, Cr, Pb, etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. Flyash utilization details shall be submitted to concerned Regional Office along with the six-monthly compliance reports and utilization data shall be published on company's website.
- (v) Unutilized ash shall be disposed off in the ash pond in the form of High Concentration Slurry/Medium Concentration Slurry/Lean Concentration Slurry method. Ash water recycling system shall be set up to recover supernatant water.
- (vi) In case of waste-to-energy plant, major problems related with environment are fire smog in MSW dump site, foul smell and impacts to the surrounding populations. Therefore, the following measures are required to be taken up:
  - a. Water hydrant at all the dumpsites of MSW area to be provided so that the fire and smog could be controlled.
  - b. Sprayer like microbial consortia may be provided for arresting the foul smell emanating from MSW area.

### X. Monitoring of compliance:

- (i) Environmental Audit of the project be taken up by the third party for preparation of Environmental Statement as per Form-V & Conditions stipulated in the EC and report be submitted to the Ministry.
- (ii) Resettlement & Rehabilitation Plan as per the extant rules of Govt. of India and respective State Govt. shall be followed, if applicable.
- (iii) Energy Conservation Plan to be implemented as envisaged in the EIA / EMP report. Renewable Energy Purchase Obligation as set by MoP/State Government



- shall be met either by establishing renewable energy power plant (such as solar, wind, etc.) or by purchasing Renewable Energy Certificates.
- Monitoring of Carbon Emissions from the existing power plant as well as for the proposed power project shall be carried out annually from a reputed institute and report be submitted to the Ministry's Regional Office.
- Energy and Water Audit shall be conducted at least once in two years and recommendations arising out of the Report should be followed. A report in this regard shall be submitted to Ministry's Regional Office.
- (vi) Environment Cell (EC) shall be constituted by taking members from different divisions, headed by a qualified person on the subject, who shall be reporting directly to the Head of the Project.
- (vii) The project proponent shall (Post-EC Monitoring):

- a. send a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government;
- b. upload the clearance letter on the web site of the company as a part of information to the general public.
- c. inform the public through advertisement 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 that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forest and Climate Change (MoEF&CC) at <http://parviesh.nic.in>.
- d. upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically;
- e. monitor the criteria pollutants level namely; PM (PM10 & PM2.5 in case of ambient AAQ), SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company;
- f. 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&CC, the respective Zonal Office of CPCB and the SPCB;
- g. submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company;
- h. inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project and the date of commencement of the land development work.

#### **XI. Corporate Environmental Responsibility (CER) activities:**

- (i) CER activities will be carried out as per OM No. 22-65/2017-IA.III dated 30.09.2020 or as proposed by the PP in reference to Public Hearing or as earmarked in the EIA/EMP report along with the detailed schedule of implementation.

*T. J. Jha*



**C. General Condition:**

- (i) The EC granted to the project is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/ construe to approvals/ consent/ permissions, etc. required to be obtained under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project.
- (ii) The project proponent shall prepare a site specific conservation plan and wildlife management plan in case of the presence of Schedule-1 species in the study area, as applicable to the project, and submit to Chief Wildlife Warden for approval. The recommendations shall be implemented in consultation with the State Forest/Wildlife Department in a time bound manner.
- (iii) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. 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.
- (iv) The energy source for lighting purpose shall be preferably LED based, or advance having preference in energy conservation and environment betterment.
- (v) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- (vi) 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 Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (vii) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and to utilize the same for process requirements.
- (viii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- (ix) The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (x) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented.
- (xi) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (xii) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (xiii) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of



Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.

- (v) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (xv) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- (xvi) The environmental statement for each financial year ending 31<sup>st</sup> March in Form-1 as is mandated shall be submitted 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 along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
- (xvii) 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 SPCB/Committee and may also be seen at Website of the Ministry and at <https://parivesh.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 concerned Regional Office of the Ministry.
- (xviii) 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 start of the project.
- (xix) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
- (xx) As per the records the earlier environmental clearance was granted by the Ministry vide letter No. J- 13011/ 20/2002.IA-II(T) dated 29th April 2004 for 1X210 MW Amarkantak Thermal Power Plant in the name of M/s Madhya Pradesh State Electricity Board (MPSEB), however, the present expansion proposal has been submitted in the name of M/s MP Power Generating Company Ltd. Accordingly, the existing environmental clearances shall be transferred in the name of M/s MP Power Generating Company Ltd.

13. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

14. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this






clearance and attract action under the provisions of Environment (Protection) Act, 1986.

15. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

16. The above conditions will 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, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

17. This issues with the approval of the competent authority.

  
1.5.2023  
(Yogendra Pal Singh)  
Scientist 'E'

Tele: 011-20819364

Email: [yogendra78@unnic.in](mailto:yogendra78@unnic.in)

**Copy to:**

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi -110 001.
2. The Principal Secretary, Department of Housing and Environment, Government of Madhya Pradesh, Paryavaran Parisar, E- 5, Arera Colony, Bhopal- 462016 (Madhya Pradesh).
3. The Deputy Director General of Forests (DDGF), Ministry of Environment, Forest and Climate Change, Integrated Regional Office, E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal - 462 016.
4. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32.
5. The Member Secretary, Madhya Pradesh Pollution Control Board, E-5, Arera Colony Paryavaran Parisar, Bhopal - 462 016 (MP).
6. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 3
7. The District Magistrate, District Anuppur (Madhya Pradesh)
8. Guard File/Record File/Monitoring File/Website of MoEF&CC

  
1.5.2023  
(Yogendra Pal Singh)  
Scientist 'E'

**न्यायालय कलेक्टर, जिला- अनूपपुर (म0प्र0)**

**प्रकरण क्रमांक-59/अ-19(3)/2020-21**

**कार्यपालन अभियंता (सिविल) निर्माण संभाग-2 म0प्र0पा0ज0कंपनी लिमिटेड चचाई  
जिला अनूपपुर (म0प्र0)**

..... आवेदक

**विरुद्ध**

..... अनावेदक

**मध्यप्रदेश शासन**

**-: संशोधित आदेश :-**

**( पारित एवं घोषित दिनांक 6 / 12 / 2021 )**

आवेदक कार्यपालन अभियंता (सिविल) निर्माण संभाग-2 म0प्र0पा0ज0कंपनी लिमिटेड चचाई जिला अनूपपुर (म0प्र0) द्वारा ग्राम चचाई आबाद तहसील अनूपपुर की 06 किता रकवा 6.171 हे. भूमि वन विभाग को हस्तान्तरित किये जाने का आवेदन पत्र प्रस्तुत किया गया । आवेदक के साथ वनमण्डलाधिकारी, वनमण्डल अनूपपुर का पत्र क्र. 4149 दिनांक 14.10.2019 की प्रति संलग्न किया गया था । प्रश्नाधीन भूमियों के हस्तान्तरण के सम्बन्ध में तहसीलदार अनूपपुर से जांच प्रतिवेदन प्राप्त है । तहसीलदार अनूपपुर का प्रतिवेदन क्रमांक-405/प्रवा.तह./2020 दिनांक 22.01.2021 प्रेषित कर प्रतिवेदित किया गया है कि ग्राम चचाई आबाद तहसील अनूपपुर की निम्नानुसार 05 किता रकवा 6.171 हे. भूमि वन विभाग के नाम हस्तान्तरण किया जाना प्रतिवेदित किया गया है । प्रकरण में पारित आदेश दिनांक 26.02.2021 में लिपिकीय त्रुटिवश भूमियों का कुल किता 05 के स्थान 06 किता तथा कुल रकवा 10429 के स्थान पर 10.884 हे. अंकित हो गया है ।

3/ अतः म0प्र0भू0राजस्व संहिता 1959 की धारा-32 एवं धारा-113 के प्रावधान अनुसार उक्त कुल किता एवं कुल रकवा में निम्नानुसार संशोधन किया जाता है :-

ग्राम का नाम	तहसील	ख0नं0	कुल रकवा (हे.में)	हस्तान्तरित रकवा (हे.में)
चचाई आबाद	अनूपपुर	83	2.948	0.833
		84	0.419	0.419
		85	1.697	0.361
		86	0.684	0.050
		275	4.681	4.508
योग-		05 किता	10.429	6.171

तहसीलदार अनूपपुर उपरोक्तानुसार राजस्व अभिलेख दुरुस्त कर पालन प्रतिवेदन उपलब्ध कराये । आदेश की प्रति सम्बन्धितों को सूचनार्थ एवं पालनार्थ प्रेषित किया जाय । प्रकरण नस्तीबद्ध किया जाता है, संचित अभिलेखागार किया जाय ।

आज दिनांक 6/12/2021 को मेरे हस्ताक्षर एवं न्यायालय की पदमुद्रा से आदेश पारित एवं घोषित किया गया ।

कलेक्टर

जिला-~~अनूपपुर~~ (म0प्र0)

जिला-अनूपपुर (म.प्र.)


बनारस २१ मई

माता शान्त नन पुत्री एवं माता शान्त क. लि. - माता 2, 12, 23  
 3 अंग - 23, 12, 23

के लिये नतीजा - निम्न - ३२.५४८ (प्रश्न)

वन भूमि जो आ. उ. पा. म. का नि. भू. अधिन. अधीन है वन विभाग के दक्ष में किया जाना है।	आ. उ. पा. म. का नि. भू. अधिन. अधीन है वन विभाग के दक्ष में किया जाना है।
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ग्राम की नाम	उप नं०	उप नं०	ग्राम की नाम	उप नं०	उप नं०
देवरी	417/1	6171	चन्द्राप्रसाद	83	2.948
				84	0.419
				85	1.697
				86	0.684
				87	0.405
				275	4.681
देवरी	417/1	6171	चन्द्राप्रसाद	6 किला	10.834
					मे. ले
					6.171 हे

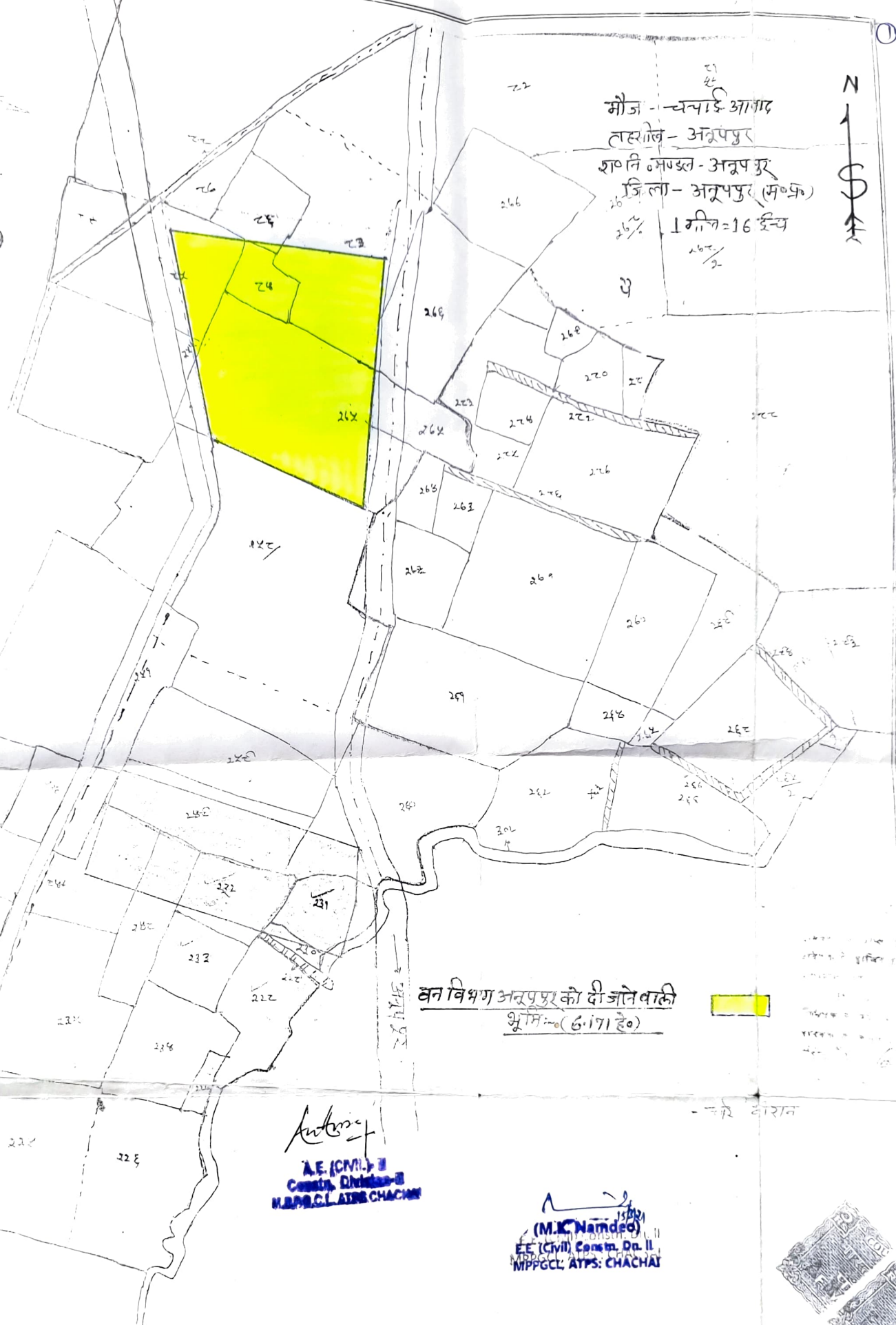
  
समस्त निरीक्षक  
अण्डाल-अनूपपुर  
वर्तमान अणुपूर (प्र.प्र.)





मौज - चचाई आगाद  
ताहसील - अनूपपुर  
शानि मण्डल - अनूपपुर  
जिला - अनूपपुर (म.प्र.)  
26% 1 गन्ना = 16 ईन्च  
26% 2

(जलाशय)



वन विभाग अनूपपुर को दी जाने वाली  
भूमि :- (6.171 हे०)



*Signature*  
A.E. (Civil) II  
Constn. Division-II  
M.P.P.G.C.L. ATPS CHACHAI

*Signature*  
(M.K. Nanded)  
EE (Civil) Constn. Div. II  
MPPGCL ATPS: CHACHAI



Detailed muck calculation and muck disposal scheme as approved by concerned DFO shall be submitted

**Detailed muck calculation and muck disposal scheme for diversion of 6.17 ha Reserved Forest Land for installation of 1x660 MW Super Critical Unit by MPPGCL at ATPS, Chachai**


On the proposed land no permanent structure is proposed to be erected as per lay out plan of the scheme. The-proposed land shall be used for coal stacking and temporary storage of construction equipment, movement of construction machinery etc. for which only stripping of land to a depth of about 10 cm top soil would be required. The excavated top soil shall be kept preserved for its utilization during green belt and other plantation. The estimated quantity of top soil would be as under –

Area 6.171 Hect. i.e., 61,710 Sq M.

Depth of Excavation = 0.10 M.

Volume of soil to be excavated and utilized for plantation =  $61,710 \times 0.10 = 6170 \text{ Cu M.}$

Thus from the above it is evident that no muck disposal is required from the proposed Forest Land to be diverted in favors of MPPGCL.

  
(M.K. Namdeo)  
E.E (Civil) Constn. Dn. II  
MPPGCL, ATPS: CHACHAI