

दिबांग बहु-उद्देशीय परियोजना (2880 मेगावाट), अरुणाचल प्रदेश
पर्यावरण संबंधी पहलुओं के संबंध में छमाही प्रगति रिपोर्ट

मार्च, 2024 को समाप्त अवधि के लिए प्रगति रिपोर्ट

1	परियोजना का नाम	दिबांग बहुउद्देशीय परियोजना (2880 मेगावाट)
2	परियोजना की किस्म	जलविद्युत् परियोजना
3	स्वीकृति पत्र - कार्यालय ज्ञापन संख्या और तारीख क) पर्यावरण संबंधी स्वीकृति ख) वन संबंधी स्वीकृति	क) पत्र सं. जे-12011/25/2009-आईए-1, दिनांक 19.05.2015 ख) पत्र सं. 8-85/2011-एफसी, दिनांक 15.04.2015 (एफसी स्टेज-I) पत्र सं. 8-85/2011-एफसी, दिनांक 12.03.2020 (एफसी स्टेज-II)
4	स्थान क) जिला (जिले) ख) राज्य ग) अक्षांश घ) देशांतर	क) लोअर दिबांग वैली तथा दिबांग वैली ख) अरुणाचल प्रदेश ग) 28° 11' 50" उ° to 29° 25' 59" उ° घ) 95° 14' 47" पू° to 95° 36' 49" पू°
5	पत्र-व्यवहार का पता क) संबंधित परियोजना प्रमुख का पता (पिन कोड और टेलीफोन/ फैक्स नम्बर सहित) ख) निगम मुख्यालय में संबंधित विभागाध्यक्ष का पता (पिन कोड और टेलीफोन/फैक्स नम्बर सहित)	कार्यपालक निदेशक, दिबांग बहु-उद्देशीय परियोजना, एनएचपीसी लिमिटेड, मायू सेक्टर, पोस्ट – रोइंग जिला – लोअर दिबांग वैली अरुणाचल प्रदेश - 792 110 फोन: 03803-222002 कार्यपालक निदेशक पर्यावरण एवं विविधता प्रबंधन विभाग, निगम मुख्यालय, एनएचपीसी. कार्यालय परिसर, सेक्टर 33, फरीदाबाद (हरियाणा) - 121 003 फोन: 0129-2254674
6	पर्यावरण प्रबंधन योजनाओं का विवरण	अनुलग्नक-1 के रूप में संलग्न ।
7	परियोजना क्षेत्र का विवरण (भूमि का	कुल भूमि : 5606.70 हैक्टेयर

	<p>विवरण)</p> <p>क) जलमग्न क्षेत्र: (वन क्षेत्र और गैर-वन क्षेत्र)</p> <p>ख) अन्य</p>	<p>क) वन भूमि (यूएसएफ़/कम्यूनिटी भूमि) : 3494 हैक्टेयर गैर-वन भूमि (सरकारी/निजी/डबल्यूआरसी) : शून्य</p> <p>ख) वन भूमि : 1083.84 हैक्टेयर गैर-वन भूमि (सरकारी/निजी) : 1028.86 हैक्टेयर</p>
8	<p>जिन लोगों ने केवल घर/निवास खोए हैं, केवल कृषि भूमि खोई है, निवास और कृषि भूमि, दोनों खोए हैं तथा भूमिहीन मजदूरों/दस्तकारों की गणना सहित परियोजना से प्रभावित आबादी का विवरण</p> <p>क) अनु.जा./अनु.ज.ज./आदिवासी</p> <p>ख) अन्य</p>	<p>पूर्ण प्रभावित परिवारों की कुल संख्या : 115* पूर्ण प्रभावित आबादी की कुल संख्या : 328* आंशिक प्रभावित परिवारों की कुल संख्या : 744* आंशिक प्रभावित आबादी की कुल संख्या : 1549*</p> <p>अनु.जा./अनु.ज.ज.: 744 (परियोजना से प्रभावित सभी परिवार अनुसूचित जनजाति से संबंधित हैं।)</p> <p>अन्य : शून्य</p> <p>*ईआईए एवं ईएमपी अध्ययन और पर्यावरण मंजूरी के दौरान किए गए सामाजिक-आर्थिक सर्वेक्षण के अनुसार।</p>
9	<p>वित्तीय ब्यौरा</p> <p>क) परियोजना की लागत, जैसा कि आरम्भ में आयोजना की गई थी, और बाद के संशोधित अनुमान तथा मूल्य संदर्भ का वर्ष</p> <p>ख) परियोजना पर अब तक हुआ वास्तविक खर्च</p> <p>ग) पर्यावरण प्रबंधन योजनाओं के लिए किए गए आवंटन</p> <p>घ) पर्यावरण प्रबंधन योजनाओं पर अब तक हुआ वास्तविक खर्च</p>	<p>क) सीसीईए स्वीकृत लागत: 31,876.39 करोड़ रुपये (जुलाई, 2016 मूल्य स्तर पर)</p> <p>ख) 2306.08 करोड़ रुपये (दिनांक 31.03.2024 तक)</p> <p>ग) 506.16 करोड़ रुपये (सीसीईए दिनांक 27.02.2023 के अनुसार)</p> <p>घ) 251.10 करोड़ रुपये (दिनांक 31.03.2024 तक)</p> <p>(कुल आवंटन, पर्यावरण प्रबंधन योजना तथा अन्य योजनाओं के अंतर्गत किए गए खर्च का ब्यौरा अनुलग्नक-I के रूप में संलग्न है।)</p>

10	<p>वन भूमि की आवश्यकताएं</p> <p>क) वन भूमि को गैर-वन भूमि के रूप में उपयोग के लिए अपवर्तन के अनुमोदन की स्थिति</p> <p>ख) वन भूमि में पेड़ों की कटाई के संबंध में स्थिति</p>	<table><tr><th colspan="3">गैर-वन उपयोग के लिए वन भूमि के व्यपवर्तन हेतु अनुमोदन की स्थिति</th></tr><tr><th>वन भूमि का व्यपवर्तन (है.)</th><th>गैर-वन्य उपयोग</th><th>पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय द्वारा निम्नानुसार स्वीकृति दी गई। (पत्र संख्या एवं दिनांक)</th></tr><tr><td colspan="3">दिबांग वैली जिला, अरुणाचल प्रदेश</td></tr><tr><td>2454.86</td><td>जलमग्न क्षेत्र</td><td rowspan="2">पत्र सं. 8-85/2011-एफसी, दिनांक 12.03.2020</td></tr><tr><td>53.00</td><td>सड़क</td></tr><tr><td colspan="3">लोअर दिबांग वैली जिला, अरुणाचल प्रदेश</td></tr><tr><td>1039.14</td><td>जलमग्न क्षेत्र</td><td rowspan="2">पत्र सं. 8-85/2011-एफसी, दिनांक 12.03.2020</td></tr><tr><td>1030.84</td><td>परियोजना घटकों के लिए</td></tr><tr><td>4577.84</td><td colspan="2">← कुल भूमि</td></tr></table> <p>ख) वन भूमि के सीमांकन और पेड़ों की गणना की प्रक्रिया जारी है। हालांकि, राज्य वन विभाग द्वारा वर्ष 2015 में की गई गणना के अनुसार, काटे जाने वाले पेड़ों की कुल संख्या 60,189 है।</p>	गैर-वन उपयोग के लिए वन भूमि के व्यपवर्तन हेतु अनुमोदन की स्थिति			वन भूमि का व्यपवर्तन (है.)	गैर-वन्य उपयोग	पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय द्वारा निम्नानुसार स्वीकृति दी गई। (पत्र संख्या एवं दिनांक)	दिबांग वैली जिला, अरुणाचल प्रदेश			2454.86	जलमग्न क्षेत्र	पत्र सं. 8-85/2011-एफसी, दिनांक 12.03.2020	53.00	सड़क	लोअर दिबांग वैली जिला, अरुणाचल प्रदेश			1039.14	जलमग्न क्षेत्र	पत्र सं. 8-85/2011-एफसी, दिनांक 12.03.2020	1030.84	परियोजना घटकों के लिए	4577.84	← कुल भूमि	
गैर-वन उपयोग के लिए वन भूमि के व्यपवर्तन हेतु अनुमोदन की स्थिति																											
वन भूमि का व्यपवर्तन (है.)	गैर-वन्य उपयोग	पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय द्वारा निम्नानुसार स्वीकृति दी गई। (पत्र संख्या एवं दिनांक)																									
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4577.84	← कुल भूमि																										
11	<p>निर्माण की स्थिति</p> <p>क) आरम्भ करने की तारीख (वास्तविक और/अथवा आयोजना की गई)</p> <p>ख) पूरा होने की तारीख (वास्तविक और/अथवा आयोजना की गई)</p>	<p>क) वास्तविक: 27.02.2023 (भारत सरकार द्वारा अनुमोदित सीसीईए – निवेश)</p> <p>ख) 26.02.2032</p>																									
12	विलम्ब के कारण (यदि परियोजना अभी आरम्भ की जानी है)	लागू नहीं।																									
13	<p>स्थल के दौरों का ब्यौरा</p> <p>क) मानीटरिंग समिति द्वारा</p> <p>ख) क्षेत्रीय कार्यालय द्वारा</p>	<p>क) अरुणाचल प्रदेश सरकार द्वारा पत्र संख्या FOR. (Env)-172/2024/1503-07 दिनांक 16.05.2024 (अनुलग्नक-II) के तहत निगरानी समिति का गठन किया गया है।</p>																									

		ख) पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय के एकीकृत क्षेत्रीय कार्यालय, गुवाहाटी से संयुक्त निदेशक द्वारा दिनांक 09.02.2022 से 10.02.2022 तक परियोजना स्थल का दौरा किया गया।
14	पर्यावरण और वन मंत्रालय द्वारा निर्धारित शर्तों के अनुपालन की स्थिति के संबंध में संक्षिप्त नोट	पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय द्वारा परियोजना को प्रदान किए गए पर्यावरण मंजूरी पत्र में निर्धारित शर्तों के अनुपालन की स्थिति अनुलग्नक-III के रूप में संलग्न है।

दिबांग बहुउद्देशीय परियोजना (2880 मेगावाट)

मार्च 2024 तक पर्यावरण प्रबंधन योजनाओं और अन्य अतिरिक्त योजनाओं के संबंध में किए गए आवंटन और व्यय का विवरण

क्रम संख्या	पर्यावरण प्रबंधन योजना का नाम	आवंटित राशि (₹ लाख में)	किया गया कुल व्यय (₹ लाख में)
1	जैव विविधता संरक्षण और प्रबंधन योजना	1,785.10	1,359.80
2	जलग्रहण क्षेत्र उपचार	2,395.71	2,395.71
3	मत्स्य प्रबंधन योजना	648.24	-
4	हरितपट्टी विकास योजना	200.00	-
5	भू-पर्यावरण प्रबंधन योजना (भूस्खलन नियंत्रण योजना)	2,312.63	-
6	मलबा निपटान योजना	648.40	-
7	खदान क्षेत्रों के लिए पुनरुद्धार योजना	189.62	-
8	निर्माण क्षेत्रों का भूनिर्माण और पुनरुद्धार तथा सड़क निर्माण में पर्यावरण प्रबंधन	877.76	-
9	सार्वजनिक स्वास्थ्य वितरण प्रणाली	1021.34	-
10	श्रमिक शिविरों में ठोस अपशिष्ट प्रबंधन योजना एवं स्वच्छता सुविधाओं की योजना	554.78	-
11	ऊर्जा संरक्षण उपाय	170.00	-
12	जन सुनवाई के दौरान उठाई गई मुद्दे	17,100.00	
13	सांस्कृतिक पहचान के संरक्षण की योजना	327.03	
14	जल, वायु और ध्वनि की गुणवत्ता का रखरखाव	35.00	
15	आपदा प्रबंधन योजना	590.00	
16	पर्यावरण निगरानी कार्यक्रम (निर्माण चरण के दौरान)	406.37	
उप-योग (अ)		29,261.98	3,755.51
17	प्रतिपूरक वनीकरण	21,343.65	21,343.65
उप-योग (ब)		21,343.65	21,343.65
18	जून 2016 तक किया गया व्यय	10.84	10.84
उप-योग (स)		10.84	10.84
कुल (अ+ब+स)		50,616.47	25,110.00

**GOVERNMENT OF ARUNACHAL PRADESH
DEPARTMENT OF ENVIRONMENT, FORESTS & CLIMATE CHANGE
ITANAGAR**

No. FOR. (Env)-172/2024/1503-07

Dated.16th May, 2024

To

Shri.Munna kumar Shah, Scientist-E
Ministry of Environment,Forests & Climate Change
Govt.of India,(IA-I Division)
Indira Paryavaran bhawan, 3rd Floor,Vayu Wing
Jor Bagh Road,New Delhi-3

Sub: - Constitution of Multi-disiplinary Committee to oversee effective implementation of environment safeguards during construction of Dibang Multipurpose Project(2880 MW)Arunachal Pradesh-reg.

Ref:- J-12011/25/2009-IA.I

Sir,

This has reference to constitution of as above cited committee as per NHPC letter No.NH/DMP/HoP/52, Dated.15.04.2024 in compliance with clause 18 of the MoEF & CC letter No.**J-12011/25/2009-IA.I** ,Dtd.16th May,2016 for implementation of environment safeguards during construction period of Dibang Multipurpose (2880 MW) HEP.

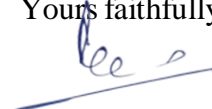
The state Govt.has approved for constitution of following members as under:

SL No	Panel of Committee Members	Nomination
1.	Executive Director of 2880 MW Dibang Multipurpose Hydro Project.	Chairperson
2.	Member Secretary, State Pollution Board	Member
3.	Conservator of Forests(CF) Wildlife	Member
4.	Deputy Commissioner, Lower Dibang Valley District,Roing.	Member
5.	Deputy Commissioner, Dibang Valley District,Anini.	Member
6.	Superintendent of Police,Lower Dibang Valley District,Roing.	Member
7.	Director(Environment)	Member
8.	Addl. Director/Scientist-E, R.O, MoEF & CC Guwahati	Member (MoEFCC Representative)
9.	Divisional Forest Officer,Dibang Forest Division,Roing.	Member
10.	Divisional Forest Officer,Anini Forest Division	Member
11.	Divisional Forest Officer,Mehao Wildlife Sanctuary,Roing.	Member
12.	District Medical Officer,Lower Dibang Valley,Roing & Anini.	Member
13.	Executive Engineer, PHED, Roing & Anini.	Member

14.	District Fisheries Officers, Roing & Anini.	Member
15.	Zila Parisha Chairperson (ZPC),Roing & Anini.	Member
16.	Representative of Local NGO	Member
17.	G.M (Environment), Dibang Multipurpose Project,Roing.	Member Secretary

This is for your kind information & necessary action please.

Yours faithfully,



(D. Dohu Robin)

Director (Environment)
PCCF office Complex, Itanagar.

Copy to:-

1. The Under Secretary to Chief Secretary, Govt. of Arunachal Pradesh.
2. The PS to PCCF(EF & CC) ,Govt. of Arunachal Pradesh
3. Shri Gaurav Kumar, General Manager, Dibang Multipurpose Project, Mayu Sector, PO Roing, District Lower Dibang Valley, Arunachal Pradesh.
4. Guard file.

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय , भारत सरकार द्वारा निर्धारित शर्तों के अनुपालन की स्थिति

शर्त सं.	शर्तें	अनुपालन की स्थिति																																																															
भाग-(अ): विशिष्ट शर्तें																																																																	
i	<p>ईआईए/ईएमपी रिपोर्ट में प्रस्तावित जलग्रहण क्षेत्र उपचार (कैट) योजना राज्य वन विभाग के परामर्श से शुरू की जाएगी और जलाशय को भरने से पहले प्रमुख कार्य पूरे किए जाएंगे। सीएटी योजना का वर्षवार विवरण इस प्रकार है:</p> <table><tr><th>उपचार के उपाय</th><th>1 वर्ष</th><th>2 साल</th><th>3 साल</th><th>4 वर्ष</th><th>5 वर्ष</th><th>कुल</th></tr><tr><td colspan="7">जैविक उपाय</td></tr><tr><td>वृक्षारोपण (हेक्टेयर)</td><td>121</td><td>151</td><td>236</td><td>168</td><td>94</td><td>770</td></tr><tr><td colspan="7">इंजीनियरिंग उपाय</td></tr><tr><td>ब्रशवुड चेक डैम (संख्या)</td><td>250</td><td>350</td><td>380</td><td>200</td><td>96</td><td>1276</td></tr><tr><td>कंटूर बंडिंग (सं.)</td><td>8</td><td>20</td><td>30</td><td>14</td><td>10</td><td>82</td></tr><tr><td>गैबियन संरचनाएं (संख्या)</td><td>40</td><td>67</td><td>62</td><td>50</td><td>40</td><td>259</td></tr><tr><td>लूज बोल्टर चेक डैम (संख्या)</td><td>126</td><td>174</td><td>190</td><td>166</td><td>112</td><td>768</td></tr><tr><td>गाद धारण बांध (संख्या)</td><td>16</td><td>46</td><td>34</td><td>20</td><td>8</td><td>124</td></tr></table>	उपचार के उपाय	1 वर्ष	2 साल	3 साल	4 वर्ष	5 वर्ष	कुल	जैविक उपाय							वृक्षारोपण (हेक्टेयर)	121	151	236	168	94	770	इंजीनियरिंग उपाय							ब्रशवुड चेक डैम (संख्या)	250	350	380	200	96	1276	कंटूर बंडिंग (सं.)	8	20	30	14	10	82	गैबियन संरचनाएं (संख्या)	40	67	62	50	40	259	लूज बोल्टर चेक डैम (संख्या)	126	174	190	166	112	768	गाद धारण बांध (संख्या)	16	46	34	20	8	124	<p>परियोजना के जलग्रहण क्षेत्र उपचार (कैट) योजना के कार्यान्वयन के लिए राज्य कैम्पा के पास कुल आवंटित राशि ₹ 2395.71 लाख जमा कर दी गई है।</p> <p>परियोजना के पत्र संख्या एनएच/डीएमपी/एचओपी/2024/1006 दिनांक 05.02.2024 (अनुलग्नक-III (ए)) द्वारा पीसीसीएफ और प्रमुख सचिव (ईएंडएफ) से अनुरोध किया गया है कि वे दिवांग और अनिनि वन विभागों के संबंधित डीएफओ को अनुमोदित सीएटी योजना के कार्यान्वयन की पहल करने का निर्देश दें।</p>
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ii	<p>परियोजना प्रभावित व्यक्तियों की भूमि जोत का विवरण, जिनकी भूमि अधिग्रहित की जा रही है, क्षेत्रीय कार्यालय सहित इस मंत्रालय को प्रस्तुत किया जाएगा। भूमि खोने</p>	<p>परियोजना प्रभावित परिवारों के लिए पुनर्वास एवं पुनर्स्थापना योजना आरएफसीटीएलएआर&आर अधिनियम 2013 के प्रावधानों के आधार पर तैयार की</p>																																																															

	वाले परिवारों के लिए आरएंडआर लाभ आरएफसीटीएलएआर&आर अधिनियम, 2013 के अनुसार होगा। राज्य पुनर्वास और पुनर्स्थापन नीति, 2008 के अनुसार अतिरिक्त प्रावधान दिए जाएंगे।	गई है और इसे राज्य सरकार द्वारा 04.12.2019 को अनुमोदित किया गया है (अनुलग्नक-III) (बी)) । दिबांग घाटी और दिबांग घाटी जिलों के दोनों उपायुक्तों ने आवश्यक सरकारी निर्देशों के लिए क्रमशः दिनांक 18.09.2023 और 05.12.2023 को अरुणाचल प्रदेश सरकार को आर एंड आर पात्रता मैट्रिक्स का मसौदा प्रस्तुत किया है (अनुलग्नक- III) (सी) एवं अनुलग्नक-III (डी) ।
iii.	पुनर्वास एवं पुनर्स्थापना के लिए एक निगरानी समिति गठित की जाएगी जिसमें अनुसूचित जाति/अनुसूचित जनजाति वर्ग सहित परियोजना प्रभावित व्यक्तियों के प्रतिनिधि और एक महिला लाभार्थी शामिल होंगे।	राज्य सरकार के परामर्श से पुनर्वास एवं पुनर्स्थापना के लिए एक निगरानी समिति गठित की जाएगी, जो पुनर्वास एवं पुनर्स्थापना के प्रशासक होने के नाते संबंधित उपायुक्तों द्वारा पुनर्वास एवं पुनर्स्थापना योजना के कार्यान्वयन के साथ-साथ कार्य करेगी ।
iv	सार्वजनिक जनसुनवाई के दौरान की गई सभी प्रतिबद्धताओं को डेवलपर द्वारा पूर्णतः पूरा किया जाएगा।	अनुपालन किया जाएगा।
v	मलबे की डंपिंग तथा समेकन/संकलन केवल निर्दिष्ट मलबे डंपिंग स्थलों पर ही किया जाएगा, जैसा कि ईआईए/ईएमपी रिपोर्ट में प्रस्तुत किया गया है। ईआईए/ईएमपी में प्रस्तावित मलबे निपटान योजना के अनुसार उत्पन्न होने वाले 233 लाख क्यूबिक मीटर मलबे में से (25-60% सूजन कारक के साथ) 35 लाख क्यूबिक मीटर का उपयोग निर्माण उद्देश्य के लिए किया जाएगा और शेष 198 लाख क्यूबिक मीटर को 112.62 हेक्टेयर के आवंटित क्षेत्र में 3 निर्दिष्ट निपटान स्थलों पर डंप किया जाएगा। डंपिंग स्थल नदी के एचएफएल से 30 मीटर से अधिक दूर होंगे और मलबे के निपटान स्थलों के लिए टो बॉल का निर्माण नदी के एचएफएल से कम से कम 30 मीटर दूर किया जाएगा ।	अनुपालन किया जाएगा।
vi	20 क्यूमेक्स का न्यूनतम पर्यावरणीय प्रवाह बनाए रखा जाएगा। इसके अलावा, 12 टर्बाइनों में से कम से कम एक टर्बाइन को पूरे वर्ष में 24 घंटे पूर्ण/आंशिक लोड पर संचालित किया जाएगा, जो टीआरटी आउटलेट के	अनुपालन किया जाएगा।

	डाउनस्ट्रीम में पर्याप्त डिस्चार्ज प्रदान करेगा, जिसमें डाउनस्ट्रीम में जलीय जीवन के पोषण के लिए पानी की पर्याप्त गहराई और वेग होगा। प्रवाह माप के लिए निरंतर निगरानी प्रणाली स्थापित की जाएगी और नागरिक समाज और शेयर धारकों के लिए उचित स्थान पर डेटा प्रदर्शित किया जाएगा। मंत्रालय और एसपीसीबी के क्षेत्रीय कार्यालय को छमाही परिणाम प्रस्तुत किए जाएंगे।																																		
vii	लोअर दिबांग घाटी जिले के दिबांग वन विभाग, दिबांग घाटी जिले के अनिनी वन विभाग और लोहित जिले के नामसाई वन विभाग में 9155.68 हेक्टेयर भूमि पर प्रतिपूरक वनीकरण कार्यक्रम प्रस्तावित है। इस उद्देश्य के लिए ₹ 15585.21 का बजट आवंटित किया गया है जिसका पूर्ण उपयोग किया जाएगा और इसे किसी अन्य उद्देश्य के लिए डायवर्ट नहीं किया जाएगा।	<p>परियोजना के प्रतिपूरक वनीकरण कार्यक्रम के लिए राज्य कैम्पा में ₹ 21,343.65 लाख जमा करा दिए गए हैं।</p> <p>4577.84 हेक्टेयर वन भूमि के डायवर्ट के उद्देश्य से 9157.49 हेक्टेयर प्रतिपूरक वनीकरण क्षेत्रों की पहचान की गई है, जो इसप्रकार है:</p> <table border="1"> <thead> <tr> <th>क्र. सं.</th><th>जगह</th><th>क्षेत्र (हेक्टेयर)</th></tr> </thead> <tbody> <tr> <td>1.</td><td>दीपा आरएफ</td><td>1192.3269</td></tr> <tr> <td>2.</td><td>लिकावाली आरएफ</td><td>466.767</td></tr> <tr> <td>3.</td><td>जयधोल पीआरएफ</td><td>2500.767</td></tr> <tr> <td>4.</td><td>दिबांग आरएफ</td><td>868.862</td></tr> <tr> <td>5.</td><td>देवपानी आरएफ</td><td>555.949</td></tr> <tr> <td>6.</td><td>भीष्मकनगर वीआरएफ</td><td>173.12</td></tr> <tr> <td>7.</td><td>केरीम आरएफ</td><td>113.699</td></tr> <tr> <td>8.</td><td>तेंगापानी आरएफ</td><td>1000.00</td></tr> <tr> <td>9.</td><td>अमरतला आरएफ</td><td>2286.00</td></tr> <tr> <td colspan="2">कुल</td><td>9157.49</td></tr> </tbody> </table> <p>इस संबंध में संबंधित वन विभागों अर्थात् दिबांग, नामसाई, लिकावाली और खेलोंग/ भालुकपोंग के डीएफओ ने सूचित किया है कि प्रतिपूरक वनीकरण के लिए निर्दिष्ट स्थलों पर प्रतिपूरक वनीकरण कार्य पूरा कर लिया गया है (प्रतियां अनुलग्नक-III (E) के रूप में संलग्न हैं)।</p> <p>परियोजना द्वारा पत्र संख्या एनएच/डीएमपी/एचओपी/2024/1006, दिनांक</p>	क्र. सं.	जगह	क्षेत्र (हेक्टेयर)	1.	दीपा आरएफ	1192.3269	2.	लिकावाली आरएफ	466.767	3.	जयधोल पीआरएफ	2500.767	4.	दिबांग आरएफ	868.862	5.	देवपानी आरएफ	555.949	6.	भीष्मकनगर वीआरएफ	173.12	7.	केरीम आरएफ	113.699	8.	तेंगापानी आरएफ	1000.00	9.	अमरतला आरएफ	2286.00	कुल		9157.49
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		05.02.2024 (अनुबंध- III (ए)) के माध्यम से पीसीसीएफ और मुख्य सचिव (ईएंडएफ) से अनुरोध किया गया है कि दिवांग बहुउद्देशीय परियोजना के तहत किए गए प्रतिपूरक वनीकरण कार्यों के व्यय उपयोग की स्थिति परियोजना को प्रस्तुत की जाए।
viii	परियोजना स्थल के पर्यावरण को बेहतर बनाने के लिए, ईआईए/ईएमपी रिपोर्ट में प्रस्तावित ग्रीनबेल्ट विकसित किया जाएगा। जलाशय और परियोजना के आस-पास प्रस्तावित ग्रीनबेल्ट का निर्माण लगभग 200 हेक्टेयर क्षेत्र में 1600 पौधों प्रति हेक्टेयर की दर से किया जाएगा, जिसमें 27 विभिन्न पौधों की प्रजातियों का उपयोग किया जाएगा। इसे राज्य वन विभाग के परामर्श से किया जाना चाहिए। ₹ 200 लाख के आवंटित बजट का उपयोग इस उद्देश्य के लिए पूरी तरह से किया जाएगा और इसे किसी अन्य उद्देश्य के लिए नहीं बदला जाएगा।	अनुपालन किया जाएगा।
ix.	दिनांक 06.03.2014 के पत्र संख्या एनएच/पीडी/ एनवी .115/521 के अनुसार तथा ईएमपी में उल्लिखित रूपरेखा के अनुसार जैव विविधता संरक्षण और वन्यजीव प्रबंधन योजना को लागू किया जाएगा। राज्य वन विभाग के परामर्श से बिना किसी फंड के डायवर्जन के इन योजनाओं को लागू किया जाएगा। इस उद्देश्य के लिए आवंटित ₹ 1785.10 लाख का बजट पूरी तरह से इन योजनाओं के लिए उपयोग किया जाएगा और इसे किसी अन्य उद्देश्य के लिए डायवर्ट नहीं किया जाएगा। कार्यान्वयन की रिपोर्ट को मंत्रालय को उसके क्षेत्रीय कार्यालय सहित प्रस्तुत की जाने वाली छमाही प्रगति और अनुपालन रिपोर्ट में शामिल किया जाएगा।	<p>अनुमोदित ईएमपी के अनुसार, जैव विविधता संरक्षण और प्रबंधन योजना के लिए निर्धारित कुल लागत ₹ 17.85 करोड़ है, जिसमें से राज्य वन विभाग ने वन्यजीव प्रबंधन योजना (जैव विविधता संरक्षण और प्रबंधन योजना का हिस्सा) के लिए ₹ 11.21 करोड़, मेहाओ वन्यजीव अभयारण्य में और इसके आसपास क्षेत्रीय वन्यजीव संरक्षण योजना के लिए ₹ 1.52 करोड़ और पक्षी-पक्षियों के लिए वैकल्पिक आवास / घर के लिए ₹ 0.59 करोड़ आवंटित किए गए हैं।</p> <p>एनएचपीसी द्वारा उपर्युक्त धनराशि पहले ही राज्य कैम्पा में जमा कर दी गई है। परियोजना द्वारा पत्र संख्या एनएच/डीएमपी/एचओपी/2024/1006, दिनांक 05.02.2024 (अनुलग्नक-III (ए)) के माध्यम से पीसीसीएफ और मुख्य सचिव (ईएंडएफ) से अनुरोध किया गया है कि वे संबंधित डीएफओ यानी डीएफओ मेहाओ डब्ल्यूएलएस, डीएफओ, दिवांग वन विभाग और डीएफओ, अनिनी वन विभाग को तदनुसार आवश्यक योजनाओं के कार्यान्वयन को आरंभ करने का निर्देश दें।</p>

		इसके अलावा यह अनुरोध किया गया है कि अनुमोदित जैव विविधता संरक्षण एवं प्रबंधन योजना (उपर्युक्त तीन घटकों को छोड़कर) के अनुसार शेष कार्य, जिसकी राशि 4.53 करोड़ रुपये है, को भी संबंधित डीएफओ के माध्यम से शुरू कराया जाए।
x	उच्च ध्वनि स्तर उत्पन्न करने वाले उपकरणों को पर्यावरण संरक्षण अधिनियम (ईपीए) 1986 के अंतर्गत 2010 में संशोधित ध्वनि प्रदूषण (विनियमन और नियंत्रण) नियम, 2000 के अंतर्गत अधिसूचित परिवेशी ध्वनि मानकों को पूरा करना होगा, इसके लिए आवश्यक इन्सुलेशन व्यवस्था आदि सुनिश्चित की जानी चाहिए।	निर्माण स्थलों पर ठेकेदारों के माध्यम से इसका अनुपालन किया जा रहा है। विस्तृत रिपोर्ट अनुलग्नक-III(I) के रूप में संलग्न है।
xi	ईएमपी में प्रस्तावित मत्स्य संरक्षण और प्रबंधन योजना को मत्स्य विभाग, अरुणाचल प्रदेश सरकार के साथ मिलकर पूरी तरह से लागू किया जाएगा। आशुपानी में गर्म पानी की मछलियों और इटालिन में ठंडे पानी की मछलियों के लिए मछली पालन केंद्र का विकास राज्य मत्स्य विभाग की मदद से किया जाएगा। मत्स्य संरक्षण और प्रबंधन योजना के लिए प्रदान किए गए ₹ 648.24 लाख के बजट का पूरी तरह से इस उद्देश्य के लिए उपयोग किया जाना चाहिए और इसे किसी अन्य उद्देश्य के लिए डायवर्ट नहीं किया जाना चाहिए।	अनुपालन किया जाएगा।
xii	पर्यावरणीय मंजूरी के लिए वन एवं वन्य जीव दृष्टिकोण से पूर्व मंजूरी प्राप्त करना आवश्यक है, जिसमें यदि आवश्यक हो तो एनबीडब्ल्यूएल की स्थायी समिति से मंजूरी भी शामिल है।	आवश्यक वन मंजूरी (चरण- I और चरण- II) पहले ही क्रमशः दिनांक 15.04.2015 और 12.03.2020 के पत्रों के माध्यम से पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय द्वारा प्रदान की जा चुकी है। परियोजना किसी संरक्षित क्षेत्र के अंतर्गत नहीं आती है, इसलिए एनबीडब्ल्यूएल की स्थायी समिति से मंजूरी लेने की आवश्यकता नहीं है।
xiii	पर्यावरणीय मंजूरी दिए जाने का यह अर्थ नहीं है कि परियोजना को वन मंजूरी स्वतः ही प्रदान कर दी जाएगी, क्योंकि वन मंजूरी पर संबंधित प्राधिकारियों द्वारा उसके	आवश्यक वन मंजूरी (चरण-I और चरण-II) पहले ही पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय द्वारा अलग-अलग प्रदान कर दी गई है।

	गुण-दोष के आधार पर विचार किया जाएगा तथा तदनुसार निर्णय लिया जाएगा।	
xiv	यदि परियोजना में कोई निवेश किया जाता है, तो वन और वन्यजीव कोण से मंजूरी की प्रत्याशा में, इस प्रकार दी गई पर्यावरणीय मंजूरी के आधार पर, पूरी तरह से परियोजना प्रस्तावक की लागत और जोखिम पर होगा, जिसके लिए पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय किसी भी मामले में जिम्मेदार नहीं होगा।	आवश्यक वन मंजूरी (चरण-I और चरण-II) पहले ही पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय द्वारा अलग-अलग प्रदान कर दी गई है। परियोजना किसी संरक्षित क्षेत्र के अंतर्गत नहीं आती है, इसलिए एनबीडब्ल्यूएल की स्थायी समिति से मंजूरी लेने की आवश्यकता नहीं है।
xv	किसी भी अन्य संगठन/विभाग से अपेक्षित कोई भी अन्य मंजूरी, कार्य शुरू करने तथा परियोजना चालू करने से पहले, प्राप्त की जानी चाहिए।	स्थापना हेतु सहमति अरुणाचल प्रदेश राज्य प्रदूषण नियंत्रण बोर्ड के पत्र संख्या एपीएसपीसीबी-90/2023/डीएमपी/1891-95 दिनांक 14.09.2023 (अनुलग्नक-III (एफ)) के माध्यम से प्राप्त कर ली गई है।

भाग-(ब): सामान्य शर्तें

i

निर्माण कार्य में लगे मजदूरों के उपभोग के लिए परियोजना लागत पर केरोसिन/लकड़ी/एलपीजी जैसे निःशुल्क ईंधन उपलब्ध कराने की पर्याप्त व्यवस्था की जाएगी, ताकि वृक्षों की अंधाधुंध कटाई को रोका जा सके।

परियोजना के विभिन्न निर्माण कार्यों/गतिविधियों में लगे मजदूरों/कर्मचारियों को ठेकेदारों द्वारा पर्याप्त संख्या में एलपीजी गैस सिलेंडर उपलब्ध कराए गए हैं, जिनका सारांश निम्नानुसार है:

क्रम सं	महीने	एलपीजी सिलेंडरों की संख्या	दर (₹ में)	कुल राशि (₹ में)
1	अक्टूबर 2023	26	1890.5	49,163
2	नवंबर 2023	34	1993	67,762
3	दिसंबर 2023	26	1936	50,336
4	जनवरी 2024	33	1936	63,888
5	फ़रवरी 2024	27	1993	53,811
6	मार्च 2024	33	1962	64,746

		कुल	179		3,49,696/-																																
		मेसर्स एलएंडटी लिमिटेड और मेसर्स दिबांग पावर (लॉट 4) कंसोर्टियम की विस्तृत रिपोर्ट अनुबंध-III (जी) और अनुबंध-III (एच) के रूप में संलग्न है।																																			
ii	श्रमिकों को चिकित्सा सुविधाओं के साथ-साथ मनोरंजन सुविधाएं भी उपलब्ध कराई जाएंगी।	<p>ठेकेदारों ने मजदूरों / कर्मचारियों को चिकित्सा सुविधाएं प्रदान करने के लिए सर्वोत्तम प्रथाओं को अपनाया है। मजदूरों / कर्मचारियों के प्रारंभिक उपचार के लिए निर्माण स्थल पर एम्बुलेंस सुविधाओं के साथ-साथ एक अच्छी तरह से सुसज्जित प्राथमिक चिकित्सा कक्ष प्रदान किया गया है। इसके अलावा, गंभीर चोट के लिए, ठेकेदार मजदूरों / कर्मचारियों को चिकित्सा सुविधाएं प्रदान करने वाली सभी सुविधाओं से सुसज्जित अस्पतालों के साथ गठजोड़ करते हैं।</p> <p>अक्टूबर 2023 से मार्च 2024 की अवधि के दौरान मेसर्स एलएंडटी लिमिटेड द्वारा जांचे गए मजदूरों / कर्मचारियों की संख्या निम्नानुसार है:</p> <table><tr><th>क्रम सं.</th><th>महीने</th><th>मजदूरों की संख्या जांच की</th><th>टिप्पणी</th></tr><tr><td>1</td><td>अक्टूबर 2023</td><td>57</td><td>शून्य</td></tr><tr><td>2</td><td>नवंबर 2023</td><td>68</td><td>शून्य</td></tr><tr><td>3</td><td>दिसंबर 2023</td><td>39</td><td>शून्य</td></tr><tr><td>4</td><td>जनवरी 2024</td><td>97</td><td>शून्य</td></tr><tr><td>5</td><td>फरवरी 2024</td><td>106</td><td>शून्य</td></tr><tr><td>6</td><td>मार्च 2024</td><td>102</td><td>शून्य</td></tr><tr><td colspan="2">कुल</td><td>469</td><td></td></tr></table> <p>मेसर्स एलएंडटी लिमिटेड और मेसर्स दिबांग पावर (लॉट 4) कंसोर्टियम की विस्तृत रिपोर्ट अनुबंध-III (जी) और अनुबंध-III (एच) के रूप में संलग्न है।</p>				क्रम सं.	महीने	मजदूरों की संख्या जांच की	टिप्पणी	1	अक्टूबर 2023	57	शून्य	2	नवंबर 2023	68	शून्य	3	दिसंबर 2023	39	शून्य	4	जनवरी 2024	97	शून्य	5	फरवरी 2024	106	शून्य	6	मार्च 2024	102	शून्य	कुल		469	
क्रम सं.	महीने	मजदूरों की संख्या जांच की	टिप्पणी																																		
1	अक्टूबर 2023	57	शून्य																																		
2	नवंबर 2023	68	शून्य																																		
3	दिसंबर 2023	39	शून्य																																		
4	जनवरी 2024	97	शून्य																																		
5	फरवरी 2024	106	शून्य																																		
6	मार्च 2024	102	शून्य																																		
कुल		469																																			

iii.	निर्माण कार्यों में लगाए जाने वाले श्रमिकों की स्वास्थ्य कर्मियों द्वारा पूरी तरह जांच की जाएगी तथा उन्हें वर्क परमिट जारी करने से पहले पर्याप्त उपचार दिया जाएगा। निर्माण अवधि के दौरान समय-समय पर स्वास्थ्य जांच भी की जा सकती है।	श्रमिकों/कर्मचारियों की स्वास्थ्य पेशेवरों द्वारा उचित जांच की जा रही है तथा उन्हें कार्य परमिट जारी करने से पहले पर्याप्त उपचार दिया जा रहा है। समय-समय पर स्वास्थ्य जांच भी की जा रही है। मेसर्स एलएंडटी लिमिटेड तथा मेसर्स दिबांग पावर (लॉट 4) कंसोर्टियम की विस्तृत रिपोर्ट अनुबंध-III (जी) और अनुबंध-III (एच) के रूप में संलग्न है।
iv	उड़ते हुए उत्सर्जन / धूल को दबाने के लिए जल छिड़काव की व्यवस्था की जाएगी।	निर्माण गतिविधियों के अनिवार्य भाग के रूप में धूल / उत्सर्जन को रोकने के लिए जल छिड़काव किया जाता है। परियोजना के निर्माण स्थलों पर नियमित आधार पर जल छिड़काव किया जा रहा है। मेसर्स एलएंडटी लिमिटेड और मेसर्स दिबांग पावर (लॉट 4) कंसोर्टियम की विस्तृत रिपोर्ट अनुबंध-III (जी) और अनुबंध-III (एच) के रूप में संलग्न है।
v	श्रमिकों के लिए पीने योग्य पानी और उचित स्वच्छता सुविधाएं उपलब्ध कराई जाएंगी। साथ ही ठोस कचरे के निपटान की उचित सुविधाएं भी सुनिश्चित की जाएंगी।	विभिन्न निर्माण गतिविधियों में लगे मजदूरों / कर्मचारियों को पेयजल सुविधा उपलब्ध कराने के लिए ठेकेदारों द्वारा उचित व्यवस्था की गई है। श्रमिकों को सुरक्षित पेयजल उपलब्ध कराने के लिए आरओ सिस्टम भी लगाया गया है। श्रमिकों / कर्मचारियों को उचित स्वच्छता सुविधाएं प्रदान करने के लिए पर्याप्त संख्या में अस्थायी शौचालयों का निर्माण किया गया है तथा ठेकेदारों द्वारा कचरे का उचित निपटान सुनिश्चित किया जा रहा है। मेसर्स एलएंडटी लिमिटेड तथा मेसर्स दिबांग पावर (लॉट 4) कंसोर्टियम की विस्तृत रिपोर्ट अनुबंध-III (जी) और अनुबंध-III (एच) के रूप में संलग्न है।
vi	उत्खनित सामग्रियों के डंपिंग स्थलों सहित निर्माण क्षेत्र का जीर्णोद्धार, गड्ढों को समतल करके, भू-दृश्यांकन आदि करके सुनिश्चित किया जाएगा। क्षेत्र में उचित वृक्षारोपण करके उचित उपचार किया जाना चाहिए।	उचित स्तर पर इसका अनुपालन किया जाएगा।
vii	पर्यावरणीय मापदंडों की निगरानी की जाएगी और छमाही निगरानी रिपोर्ट पर्यावरण, वन एवं जलवायु परिवर्तन	मेसर्स एलएंडटी ने विभिन्न निर्माण स्थलों और स्थानों पर जल और वायु गुणवत्ता निगरानी के लिए एनएबीएल

	मंत्रालय, नई दिल्ली को, इसके क्षेत्रीय कार्यालय सहित, समीक्षा के लिए प्रस्तुत की जाएगी।	प्रमाणित प्रयोगशाला, मेसर्स एनवायरोकोन, तिनसुकिया, असम की सेवाएं ली हैं। परीक्षण के परिणाम अनुलग्नक-III (I) के रूप में संलग्न हैं।
viii	श्रमिकों के लिए ठोस अपशिष्ट प्रबंधन एवं स्वच्छता सुविधा उपलब्ध करानी होगी।	ठेकेदार द्वारा ठोस अपशिष्ट का संग्रह और पृथक्करण अलग-अलग रंग-कोडित कूड़ेदानों में किया जा रहा है और निपटान ठोस अपशिष्ट प्रबंधन नियम, 2016 के मानदंडों के अनुसार किया गया है। साइट और श्रमिक शिविरों में मजदूरों / कर्मचारियों के लिए पर्याप्त संख्या में अस्थायी शौचालयों का निर्माण किया गया है।
ix	जिला प्राधिकारियों के परामर्श से आपदा प्रबंधन योजना तैयार की जाएगी तथा पूर्व चेतावनी टेलीमेट्रिक प्रणाली स्थापित की जाएगी।	संबंधित जिला प्राधिकारियों के परामर्श से विस्तृत आपदा प्रबंधन योजना तैयार की जाएगी। प्रारंभिक चेतावनी (टेलीमेट्रिक) प्रणाली की स्थापना का कार्य प्रगति पर है।
x	जैसा कि ईएमपी में प्रस्तावित है, पर्याप्त मेन पावर के साथ परियोजना स्तर पर एक पर्यावरण प्रबंधन प्रकोष्ठ (ईएमसी) स्थापित किया जाएगा। ईएमसी का प्रमुख, ईएमपी और संबंधित मुद्दों के त्वरित कार्यान्वयन के लिए सीधे परियोजना प्रमुख को रिपोर्ट करेगा।	परियोजना में एक अलग पर्यावरण विभाग है जिसके अधिकारी विशेष रूप से पर्यावरण संबंधी मामलों के लिए काम करते हैं। पर्यावरण विभाग का प्रमुख, पर्यावरण संबंधी मामलों और उनके अनुपालन के संबंध में सीधे परियोजना प्रमुख को रिपोर्ट करते हैं।

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NH/DMP/HOP/2024/1006

Date: 05/02/2024

To,

**The Principal Chief Conservator of Forests
& Principle Secretary (E&F),
Department of Environment and Forests,
Government of Arunachal Pradesh,
Itanagar.**

**Subject: - Compliance of the conditions stipulated in Forest Clearance Stage-II (Final)
from the Ministry of Environment, Forests & Climate Change, Govt. of India
in respect of Dibang Multipurpose Project (2880 MW).**

Sir,

Ministry of Environment, Forests & Climate Change (MOEF&CC), GoI has granted 'in-principle' approval (FC-I) for the diversion of 4577.84 ha forest land in favour of NHPC Ltd. for construction of Dibang Multipurpose Project on 15.03.2015 (**Annex-A**). Subsequently, all the conditions stipulated in FC-I were complied with by the State Govt./NHPC. In this regard a copy of compliance letter of PCCF & Nodal Officer (FCA) sent to MOEF&CC, New Delhi dated 20.09.2019 is enclosed (**Annex-B**).

After the compliance of all stipulated conditions of FC-I, Stage-II/Final approval was accorded by MOEF&CC in favour of NHPC Ltd. on 12.03.2020 (**Annex-C**). Further, while communicating the final approval for the diversion of forest land, State Government vide letter dated 19.05.2020 (**Annex-D**) allowed NHPC to use the diverted forest land strictly for the construction of Dibang Project as proposed and approved by MOEF&CC, ensuring the fulfillment of conditions mentioned therein.

In this regard it is submitted that in compliance to FC-I, NHPC had deposited an amount of Rs. 630 crores in State CAMPA on 09.09.2019 and 30.12.2019. A copy PCCF & Nodal Officer (FCA), GoAP's letter dated 06.01.2020, which includes proforma for verification of deposit of fund in CAMPA, is enclosed as **Annex-E**.

In view of above following is submitted for consideration:

S.No.	Head	Amount Deposited in CAMPA (Rs. in cr.)	Remarks
1.	Compensatory Afforestation	213.44	Following CA areas were identified against the diversion of 4577.84 hs forest land: 1. Dipa RF: 1192.3269 ha

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			<p>2. Likabali RF: 466.767 ha 3. Jaidhol PRF: 2500.767 ha 4. Dibang RF: 868.862 ha 5. Deopani RF: 555.949 ha 6. Bhismanagar VRF: 173.12 ha 7. Kerim RF: 113.699 ha 8. Tengapani RF: 1000.00 ha 9. Amartala RF: 2286.00 ha Total: 9156.00 ha</p> <p>In this regard, DFOs of the concerned Forest Divisions i.e Dibang, Namsai, Likabali and Khellong / Bhalukpong have informed that the CA works have been completed at the designated sites of CA (copies enclosed as Annex- F).</p> <p>As such, it is requested that the status of fund utilization of CA works carried out under Dibang Multipurpose Project be got submitted.</p>
2.	Catchment Area Treatment	23.96	Concerned DFOs of Dibang Forest Division and Anini Forest Division may be directed to initiate the implementation of approved CAT plan accordingly.
3.	Wildlife Management Plan	11.21	As per the approved EMP, total cost earmarked for Biodiversity Conservation and Management Plan is Rs. 17.85 cr., out of which State Forest Deptt. has allocated Rs. 11.21 cr for Wildlife Management Plan (part of Biodiversity Conservation & Management Plan), Rs. 1.52 cr. for Zonal Wildlife Conservation Plan in and around Mehao Wildlife Sanctuary (Annex-G) and Rs. 0.59 cr for Alternate Habitat/Home for Avifauna (Annex-H).
4.	Zonal Wildlife Conservation Plan	1.52	
5.	Alternate Habitat/Home for Avifauna	0.59	
			The above stated funds have already been deposited by NHPC in State CAMPA. As such,

			<p>concerned DFOs i.e DFO Mehao WLS, DFO Dibang Forest Division and DFO Anini Forest Division may be directed to initiate the implementation of the requisite plans accordingly.</p> <p>Further, balance works as per the approved Biodiversity Conservation and Management Plan (excluding the above three components), amounting Rs. 4.53 cr may also be got initiated through the concerned DFOs. A copy of approved Biodiversity Conservation and Management Plan is enclosed as Annex-I.</p>
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Thanking you,

Yours faithfully,



(L.K. Tripathi)

Executive Director & HOP

Copy for information and necessary action to: -

- PCCF (WL)/ Chief Wildlife Warden, GoAP, Itanagar.
- Addl PCCF & Nodal Officer (FC), GoAP, Itanagar.
- Chief Conservator of Forests, GOAP, Eastern Arunachal Circle, Tezu
- Divisional Forest Officer, Dibang Forest Division, Roing, Lower Dibang Valley Distt.
- Divisional Forest Officer, Anini Forest Division, Anini, Dibang Valley Distt.
- Divisional Forest Officer, Mehao Wildlife Sanctuary, Roing, Lower Dibang Valley Distt.

**APPROVED
RESETTLEMENT AND
REHABILITATION PLAN
OF
DIBANG MULTIPURPOSE
PROJECT (2880MW)**

C.T.C.

12/12/2019

Dy. Director (L.M)
Govt. of Arunachal Pradesh
Itanagar

ANNEXURE-I

RESETTLEMENT AND REHABILITATION PLAN

1. GUIDELINES FOR RESETTLEMENT PROGRAMME IN ARUNACHAL PRADESH

As per the Memorandum of Agreement between NHPC and Govt. of Arunachal Pradesh, Resettlement and Rehabilitation (R & R) of project affected families is to be implemented on the basis of **National Policy on Resettlement and Rehabilitation(NPRR) 2003**. Government of India has subsequently revised this policy on 31st October 2007 and came up with National Rehabilitation and Resettlement Policy (NRRP) 2007. This policy does not cover some of the provisions which are prevailing in Arunachal Pradesh viz., Rights and Privileges for community land / Unclassed State Forest. Arunachal Pradesh being a mountainous State, heavily forested and drained by numerous rivers and streams, availability of cultivable land is less. So, suitable agricultural land is a scarce resource. This coupled with the fact that the economy of the State is largely dependent on agriculture and forests; diversion of any piece of cultivable land for a project is bound to have more adverse effect upon tribal community of Arunachal Pradesh than that envisaged earlier in NRRP-2007. Keeping this in view, Government of Arunachal Pradesh came with its own Policy i.e. **State Rehabilitation and Resettlement Policy 2008**, which caters to loss of rights over Unclassed State Forests and other privileges of the tribal community along with other provisions more or less similar to NRRP, 2007.

Recently, Ministry of Rural Development (MoRD) came up with "The Right to Fair Compensation, Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013" (RTFCT in LARR Act, 2013) which has become effective from January 1, 2014. The Act has provisions to provide fair compensation and resettlement and rehabilitation benefits to those whose land is acquired for construction of projects. Although this Act is comprehensive, covering various aspects of land acquisition, compensation and resettlement benefits, it has not addressed the acquisition issues of community land and its impact on tribal or other dependent communities. This new Act has replaced over a century old legislation i.e. Land (Acquisition) Act, 1894, and

a unified Policy has been proposed for land acquisition and adequate Rehabilitation mechanism for the affected persons.

Initially the R & R Plan for Dibang Multipurpose Project was prepared in line with the State Rehabilitation and Resettlement Policy 2008 of Arunachal Pradesh. Now it has been revised in line with RTFCT in LARR Act, 2013 with increase in transportation grant, cattle-shed, compensation for land, etc. Special thrust has been given for imparting training for self-sustenance. However, the provisions of previous R&R plan, which was presented during public hearings / public consultation, have been kept intact. Moreover, as far as community land and loss of rights over Unclassed State Forest is concerned, the provisions of State R&R Policy 2008 of Arunachal Pradesh have been adopted.

The entire responsibility for implementation, as per the Act, has been given to the concerned State Administration. MoRD has published the Draft Rules of this Act, which is yet to be notified. Based on these Rules, each State has to prepare its own Guidelines for implementation of this Act. The Act includes appointment of an Administrator(R&R), not below the rank of Joint Collector or Additional Collector or Deputy Collector or equivalent official of Revenue Department for determining compensation and & R Package, and all other works related to Resettlement and Rehabilitation of the project affected families. The formulation, execution and monitoring of the R&R scheme shall lie with the Administrator (R&R). The monitoring committee shall also be constituted. The cost of R&R Plan and compensation shall be borne by the project proponent.

2. OBJECTIVES OF R & R PLAN

The Rehabilitation component primarily means to assist the affected population so that every individual could regain or improve lifestyle and socio-economic condition. This is done primarily by imparting skills and/or vocational training to the PAPs. Resettlement on the other hand, primarily involves the physical relocation of the affected population to new residential sites. The Rehabilitation package is conceptualized around a development strategy to bring about a positive socio-economic transformation of the PAFs, so as to improve the quality of their life and

also to facilitate harmonious relationship between the project proponent and project affected people.

The successful implementation and running of a mega project would depend on addressing the grievances of the local people which might emerge out of the setting up of the project and involving the local people into the project in different capacities in the spirit of participatory development. All affected landowners will be entitled to a combination of compensation packages and resettlement assistance, depending upon the nature of ownership of their land and the scope of impacts, including socio-economic vulnerability of the affected persons and measures to support livelihood restoration if livelihood impacts are envisaged.

The objectives of the Resettlement and Rehabilitation Plan envisaged for Dibang Multipurpose Project are to:

- provide assistance and other support to the PAFs so that they regain their previous standard of living; even improve if possible, within a reasonable transition period.
- pay compensation for the loss of land, houses and all other immovable properties to the PAFs as per the RTFCT in LARR Act, 2013 and State Rehabilitation and Resettlement Policy, 2008 of Arunachal Pradesh.
- improve the overall quality of life of affected population through better infrastructure medical and educational facilities, etc.
- provide adequate compensation to the project affected tribal community for extension of tradition right and privilege of USF land use and collection of forest produce.

3. RESETTLEMENT AND REHABILITATION BENEFITS

3.1 Compensation for land along with rights and privileges: The process of land acquisition will be dealt by NHPC along with PAFs and Government of Arunachal Pradesh. Land for various components involves Unclassed State Forest (USF), community land without forest cover and land under wet rice cultivation (WRC). PAFs shall be compensated as per the norms of State Government for the community land. The community shall be compensated @ ₹ 1.56 lakhs/ ha for loss

of customary rights and privileges of tribal people to collect and use forest produce (traditional land use) from USF. In addition to this, the community will be paid a sum equivalent to 25 % of Net Present Value (i.e. 25% of ₹ 39581.21 lakh) of the USF. Compensation for crops will be paid @ ₹ 1.25 lakhs/ha for land under jhum cultivation and ₹ 1.5 lakhs/ha for land under WRC. Detailed financial outlay is provided in **Table 1**.

Table 1: Detailed financial outlay for land compensation along with rights & privileges

Land	Quantity of land (in ha)	Rate per ha (₹ in lakh)	Amount (₹ in lakhs)	Factor of multiplication	Total Amount	25% of NPV	Cost of crops	Solatium @100% of (land value + cost of crops)	Total (₹ in lakhs)
USF	4577.84	1.56	7141.43	--	7141.43	9895.30		--	17036.73
Community land without forest cover	Undeveloped cultivable slope land not approachable by motorable road						693.21 (@ ₹ 1.25 lakhs/ha)		
	Uncultivable land	4.00	2218.28	2	4436.56	--		5129.77	10259.54
	Total	2.50	366.83	2	733.65	--	--	733.65	1467.30
Land under WRC			2585.11		5170.21	--	693.21	5863.42	11726.84
		4.00	280.00	2	560.00	--	105 (@ ₹ 1.50 lakhs/ha)	665.00	1330.00
	Total	--	10006.54		12871.64	9895.30	798.21	6528.42	30093.57

Note:

1. The property value above is calculated based on land compensation only as per *The Right to Fair Compensation, Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013*.
2. Compensation for land, properties, trees/crops standing on the acquired agricultural land would be payable to the entitled land owner families as per the valuation by the State Government / DC / Administrator (R&R).

E.T.C.

56/12/19
Director (L&R)
Bhadrachalam District

3.2 Housing benefit and compensation

Each family who is fully affected and losing house shall be allotted free of cost house and a plot for the house site to the extent of actual loss of area of the acquired house but not more than 250 sq m (0.025 ha) of land. The size and design of house will be decided by the State Authority in consultation with the project affected community and project authority. 115 families, getting affected in 5 fully affected villages, are eligible for this benefit.

Provided that any such affected family which opts not to take the house offered at the resettlement site, shall get one-time financial assistance for house construction and the amount shall be ₹ 2 lakh and his claim for free of cost plot at the resettlement site shall stand forfeited.

3.3 Land allotment and compensation

Each affected family owning agriculture land in the affected area and whose entire land has been acquired or lost shall be allotted agricultural land or cultivable waste land to the extent of actual land lost in the name of the adult member of the subject to a maximum of 1 ha of irrigated land or 2 ha of cultivable un-irrigated land subject to the availability of government land in or near the resettlement area. The affected family will be compensated for the remaining cultivable land monetarily @ ₹ 4 lakhs/ha 115 families are eligible for this benefit.

3.4 Ex Gratia for the landless

Each affected family who is rendered landless shall be provided an ex gratia grant of ₹ 50,000. This benefit shall be extended to 115 fully affected families.

3.5 Ex gratia for those affected families who are left with less than 1 ha of land

Each of the affected families who are left with less than 1 ha of land after acquisition shall be provided an ex gratia grant ₹ 40,000.

3.6 Land Development Assistance

In case of allotment of wasteland or degraded land in lieu of acquired land, the senior most adult member in the affected household shall get one time financial assistance ₹ 25000/ha for land development. This benefit shall be extended to 115 fully affected families.

3.7 Livelihood grant for landless

An amount equivalent to 1000 days Minimum Agricultural Wages (MAW) @ ₹ 100/day or the prevailing agricultural labour wage whichever is higher shall be paid to each of the affected families who have been rendered landless after land acquisition. This benefit shall be extended to 115 fully affected families.

Each PAF would be given the option for taking up to 20% of his livelihood grant amount in the form of shares and debentures.

3.8 Livelihood grant for those who have been left with less than 1 ha of land

An amount equivalent to 750 days Minimum Agricultural Wages (MAW) @ ₹ 100/day or the prevailing agricultural labour wage whichever is higher shall be paid to each of the affected families who are left with less than 1 ha land after land acquisition.

Each PAF would be given the option for taking up to 20% of his livelihood grant amount in the form of shares & debentures.

3.9 Financial Assistance for self-employed

Each affected person who is a rural artisan, a small trader or self-employed person and who has been displaced shall get a one-time financial assistance of such amount as the State Authority may decide but not less than ₹25000 for construction of working shed or shop.

3.10 Transportation grant

Each affected family that is displaced shall get financial assistance of such amount as the State Authority may decide but not less than ₹ 20,000 for transportation of their

household goods, cattle, etc. to the resettlement site. This benefit shall be extended to 115 fully affected families.

3.11 Assistance for construction of cattle shed

Each affected family that is displaced and has cattle shall get financial assistance of such amount as the State Authority may decide but not less than ₹ 15000 for construction of cattle shed. This benefit shall be extended to 115 fully affected families.

3.12 Subsistence allowance

Each affected family that is displaced will be given monthly allowance equivalent to 25 days MAW for a period of 1 year from the date of displacement. This benefit shall be extended to 115 fully affected families.

3.13 Pension for life for vulnerable affected persons

The project authorities shall, at their cost, arrange for annuity policies that will pay a pension of ₹ 500/- per month for life to the vulnerable affected persons as indicated at paragraph 7.1.6 (iv) of State R&R Policy 2008 of Arunachal Pradesh. This provision will be applicable for those who will be identified by the District Administration during final survey.

3.14 Scheduled tribe family grant

Each Scheduled Tribe affected family shall get an additional one-time financial assistance equivalent to 500 days MAW for loss of customary rights or usages of forest produce or ₹ 50,000/- whichever is higher. This will be applicable for 859 affected families.

3.15 Training for Livelihood

Suitable training would be provided for skill development so as to make provisions for employment at a rate not lower than the minimum wages, to at least one member from the project affected family.

3.16 Free electricity

The project developers will provide to each of the project affected family the benefit of 100 units of electricity per month free of charge for a period of 10 years from the date of commissioning of the project. In case the affected family does not consume 100 units of electricity in a month, the cost of balance unused units shall be made available to the family in cash.

3.17 Special provisions

- There shall be an option of acquiring entire agriculture land, if 75% of land holdings are required for acquisition.
- The land or house allotted to the affected families shall be free from all encumbrances.
- The tribal families residing in the project areas having fishing rights in the river shall be given fishing rights in the reservoir area.
- The PAFs resettled out of the district / Arunachal Pradesh will get 25% higher R&R benefits in monetary terms.

4. Financial Outlay for R & R Benefits

The budgetary provision of R & R benefits is presented in **Table 2**.

Table 2: R & R Benefits with budget

S No.	Benefits	Criteria	Amount (₹ in lakhs)
1.	Homestead land	Max. 0.025 ha @ ₹ 4 lakh/ha for 115 PAFs	11.50
2.	House construction grant	₹ 2 lakh/PAF for 115 PAFs	230.00
3.	Stamp duty and registration for homestead land and house	@ 8%	19.32
4.	Compensation for land	₹ 4 lakh/ha for 2 ha for 115 PAFs	920.00
5.	Ex-gratia payment for landless	₹ 50,000/PAF for 115PAFs	57.50

S No.	Benefits	Criteria	Amount (₹ in lakhs)
6.	Ex gratia payment for those who are left with less than 1 ha of land	₹ 40000/PAF for 744 PAFs*	297.60
7.	Land development assistance	₹ 25,000/PAF for 115 PAFs	28.75
8.	Livelihood grant for landless	1000 days MAW @ ₹ 200/day for 115 PAFs	230.00
9.	Livelihood grant for those who are left with less than 1 ha of land	750 days MAW @ ₹ 200/day for 744 PAFs*	1116.00
10.	Financial assistance for self-employed persons	Lumpsum	20.00
11.	Transportation grant	₹ 50000/PAF for 115 PAFs	57.50
12.	Assistance for construction of cattleshed	₹ 25000/PAF for 115 PAFs	28.75
13.	Subsistence allowance	₹ 3000/month 12 months for 115 PAFs	41.40
14.	Scheduled Tribe Family Grant	₹ 50,000/PAF for 859 PAFs	429.50
15.	Provision of annuity policies for pension for life to vulnerable affected persons @ ₹ 500/ month	Lumpsum	30.00
16.	Training for livelihood	@ ₹ 5 lakh/PAF for 115 PAFs	575.00
17.	Free electricity @ 100 units per PAF per month	Lumpsum	50.00
	Total		4142.82

*Exact number of PAFs left with less than 1 ha of land would be identified by District Administration.

5. INFRASTRUCTURE FACILITY AT RESETTLEMENT SITE / COLONY

Project Affected Families will be resettled to a new location. New Resettlement sites shall be finalized by the Administrator (R&R) in consultation with PAFs and it will be developed with all the basic infrastructural facilities well before the filling of reservoir.

Fully affected families shall be resettled in a group to maintain their socio-cultural compatibility. The basic amenities to be provided in the resettlement colonies are given as below:

- Access roads, passages and easement rights, proper drainage and sanitation facilities;
- Assured water supply capable of yielding enough water to meet the demand of at least sixty litre per capita per day (lpcd);
- Building for Panchayat Ghar and Community Hall;
- Building for a Village level Post Office;
- Building for setting up an appropriate seed-cum-fertilizer store as per requirement;
- Primary health facilities;
- Primary education facilities;
- Promotion of institutional arrangements for availing of financial assistance under the Central/State Government's schemes/Bank schemes;
- Electricity connections, if possible. The payment to the concerned electricity supply agency in respect of electricity to be consumed shall be the responsibility of the PAFs;
- Place of worship;
- Public cremation ground/burial ground;
- Separate land earmarked for traditional tribal institutions;
- Suitable public transport facility
- Anganwadi with child and mother supplemental nutritional services.
- Any other additional facility extended by NHPC as and when considered necessary;
- Produces and common property resources, if available in the vicinity of the new place of settlement.
- Veterinary service centre.

5.1 Financial Outlay for Infrastructural Facilities

The budgetary provision earmarked for providing various infrastructural facilities are presented in the Table 3.

Table 3: Financial Outlay for providing infrastructural facilities

S. No.	Parameter	Criteria	Total Cost (₹ in lakh)
1.	Water supply	Lumpsum	60.00
2.	Community toilets	Lumpsum	30.00
3.	Development of sewage treatment system including drainage system	Lumpsum	60.00
4.	Electrification and Street lights	Lumpsum	100.00
6.	Construction of shopping complex	Lumpsum	30.00
7.	Construction of community centre	Lumpsum	100.00
8.	Construction of vocational activity centre	Lumpsum	60.00
9.	Children's park	Lumpsum	40.00
10.	Avenue plantation & block plantation	Lumpsum	20.00
11.	Internal roads in the resettlement colony	Lumpsum	250.00
12.	Link roads to the resettlement colony	Lumpsum	4000.00
13.	Irrigation facilities to PAFs	Lumpsum	175.00
14.	Construction of Hospital Building	Lumpsum	150.00
15.	School Complex including play ground	Lumpsum	150.00
16.	Place of worship	Lumpsum	20.00
17.	Anganwadi	Lumpsum	30.00
18.	Public Transportation facility	Lumpsum	30.00
19.	Separate land for traditional tribal institution	Lumpsum	5.00
20.	Veterinary service centre	Lumpsum	50.00
22.	Miscellaneous	Lumpsum	100.00
Total			5460.00

Note: Initially the facilities proposed to be provided in Resettlement Colony were prepared in line with the State Rehabilitation and Resettlement Policy 2008 of Arunachal Pradesh. However, it has now been revised on the basis of RTFCT in LARR Act, 2013. Further, the provision of land for Resettlement Colony has been kept under B-Land in DPR.

The above-mentioned facilities will also be available to the host population and the neighbouring community in the Resettlement colonies/sites. The responsibility of project authority shall be limited to incurring one-time capital cost for creation of these facilities. Efforts will be made to involve PAPs in creation of these infrastructure facilities by giving contracts to their co-operative societies or otherwise for construction works to the extent possible. This will also help in developing a sense of ownership among the PAPs regarding these facilities.

6. LUMP SUM CASH ASSISTANCE

All the affected families shall be given an option to take a lump sum cash amount in lieu of one or more the benefits specified in the R&R package, depending upon their entitlement.

7. MONITORING AND EVALUATION

In compliance to the condition, stipulated in the Environmental Clearance letter, six monthly progress report of implementation of various EMPs including R & R plan will be sent to MoEF through Corporate R & R Cell / Environment Group of NHPC Ltd.

The State Government shall constitute a Committee under the Chairmanship of the Deputy Commissioner to be called the Rehabilitation and Resettlement Committee, to monitor and review the progress of implementation of the Rehabilitation and Resettlement scheme and to carry out post-implementation social audits in consultation with the Gram Sabha. The Rehabilitation and Resettlement Committee shall also include the following members:

- (a) a representative of women residing in the affected area;
- (b) a representative of the Scheduled Tribes residing in the affected area;
- (c) a representative of a voluntary organisation working in the area;
- (d) a representative of a Nationalized Bank;
- (e) the Land Acquisition Officer of the project;
- (f) the Chairpersons of the panchayats i.e. GaonBurhas located in the affected area or their nominees;

- g) the Chairperson of the District Planning Committee or his nominee,
- (h) the Member of Parliament and Member of the Legislative Assembly of the concerned area or their nominees;
- (i) a representative of NHPC; and
- (j) Administrator for Rehabilitation and Resettlement as the Member-Convener.

The financial budget for the day to day expenditure of the committee would be ₹ 50.00 lakhs only.

8. COST ESTIMATE FOR R&R PLAN

Total financial package for R & R Plan would be ₹ 9652.82 lakh. It includes R & R benefits amounting to ₹ 4142.82 lakh, ₹ 5460.00 lakh for providing infrastructural facilities in the resettlement colony and ₹ 50 lakhs for monitoring and evaluation. In addition, ₹ 30093.57 lakh will be paid towards the compensation of land, and rights and privileges against loss of unclassified forests and community land. The total cost earmarked for implementation of R&R Plan shall be ₹ 39746.39 lakh. The details are given in Table 4.

Table 4: Summary of Budget for Resettlement & Rehabilitation Plan

S. No.	Parameters	Total Cost (₹ in lakh)
I.	R & R Plan	
	(i) R&R Benefits	4142.82
	(ii) Infrastructural facilities in the resettlement colony	5460.00
	(iii) Monitoring & Evaluation	50.00
	Total	9652.82
II.	Compensation of land and rights and privileges (including 25% of NPV)	30093.57
	Total	39746.39 Say ₹ 397.5 crore

G.T.C.
8/12/29.
Dy. Director (I.M)
Govt. of Arunachal Pradesh
Itanagar

2/2023-LM BR- ROING-O/O DEPUTY COMMISSIONER, LOWER DIBANG VALLEY

10380-384

**GOVERNMENT OF ARUNACHAL PRADESH
OFFICE OF THE DEPUTY COMMISSIONER
LOWER DIBANG VALLEY DISTRICT::ROING**

Dated Roing, the 18th Sept'2023**ID NOTE****Sub:- Reg- Furnishing of details of R&R package under DMP.**

In response to your letter No.LMD-13011(13)/9/2021 dated 06/12/2022 regarding furnishing of details of the approved R&R package prepared in respect of the individual beneficiaries/PAFs assessed as displaced under Dibang Multipurpose Project, I am directed to forward the following for your information please.

1. Approved R&R Plan.
2. R&R entitlement matrix.

Necessary govt. direction may be conveyed in this regard.

Enclosed:- As stated above.

Signed by

Nikita Panggam

Date: 18-09-2023 12:43:29

(Dr. Nikita Panggam) EAC(LM)

For Deputy Commissioner,
Lower Dibang Valley District, Roing

To,

The Director,
Dept. of Land Management,
GoAP, Itanagar.

Dated Roing, the 18th Sept'2023

Copy for information to: -

1. The Commissioner(LM), GoAP, Itanagar.
2. The Secretary (LM), GoAP, Itanagar.
3. The Executive Director, NHPC Ltd., Roing.
4. The SPA to DC, Roing.
5. Office copy.

GOVERNMENT OF ARUNACHAL PRADESH
OFFICE OF THE DEPUTY COMMISSIONER
DIBANG VALLEY DISTRICT::ANINI

NO.DV/LM/173/R&R/2023/ 369-71

Dtd. Anini, the 05th Dec' 2023

To,

The Secretary,
Land Management,
Govt. of Arunachal Pradesh,
Itanagar.

Sub:- Forwarding of R&R Entitlements for the PAFs of Dibang Valley District under DMP (2880 MW), NHPC.

Sir,

While referring to subject cited above, I am submitting herewith the R&R Entitlement proposed for the Project Affected Families of Dibang Valley District which will be effected by the Dibang Multipurpose Dam Project (2880 MW).

This is for your perusal and further necessary approval please.

Enclosure:-

1. R&R Entitlement Draft.

Yours faithfully



(Pagli Sora) APCS
Deputy Commissioner
Dibang Valley District
Anini

NO.DV/LM/173/R&R/2023/ 369-71

Dtd. Anini, the 05th Dec' 2023

Copy to:-

1. The Director, Land Management, Govt. of Arunachal Pradesh, Itanagar, for kind information please.
2. ED, NHPC, Camp Mayu Sector, Roing, Lower Dibang Valley District, for kind information.
3. Office Copy.


(Pagli Sora) APCS
Deputy Commissioner
Dibang Valley District
Anini
Deputy Commissioner
Dibang Valley District
Anini

R&R Entitlement Matrix for PAF of Dibang Valley District, under DMP92880 MW), NHPC

Sl.No	Particulars for Benefits	Creteria (LARR Act 2013/ APRR 2008 Policy)	Fully Affected		Remarks
			Entitlement to Resettlement Beneficiary (in Rs.)	Option for Monetary Beneficiary (in Rs.)	
1. Individual displaced/likely to be displace PAFs					
1	Homestead Land	Max. 0.025 Ha/PAF	1535 sqm residential plots, including pignsly,kitchen garden, chicken coop & cattleshed.	₹ 3,37,700.00	Rates as per manual for LA, AP Sep'2022.
2	Housing Benefit/Construction Grant.	Provision for House (Size & Design to decided) plinth area of 250 Smt/Rs 2 Lak/PAF	Provision for House (Size & Design to decided) plinth area Of 250 Smt	₹ 4,00,000.00	due to its remoteness construction cost is considerably higher in Dibang Valley
3	Land allotment	2 ha	2 ha	₹ 25,00,000.00	As per LA manual Sep'2022 of AP.
4	Ex-gratia Payment	Rs. 50000/PAF	₹ 50,000.00	₹ 50,000.00	Provision as per approved R&R plan. To be identified/decided by Administrator, R&R.
5	Land Development Assistance.	Rs 25000/PAFs.	₹ 25,000.00	₹ 25,000.00	As per approved R&R plan.
6	Livelihood grant. (i) Fully Affected= 1000 days of MAW. (ii) Partially Affected= 750 days of MAW	1000 Days MAW @ Rs 200/Day.	₹ 2,00,000.00	₹ 2,00,000.00	Provision as per ApprovedR&R Plan.
7	Financial assistance for Self-Employee person.	25000/PAF	₹ 25,000.00	₹ 25,000.00	To be identified by Administrator R&R
8	Transportation grant.	Rs 50000/PAF.	₹ 50,000.00	₹ 50,000.00	To be provided to Fully affected families.
9	Assistance for Construction of Cattle shed.	Rs 2500/PAF.	₹ 25,000.00	₹ 25,000.00	As per approved R&R plan.
10	Subsistence allowance.	Rs 3000 per Month for 12 Months.	₹ 36,000.00	₹ 36,000.00	As per approved R&R plan.
11	Schedule Tribe Family Grant.	Rs 50000/PAF	₹ 50,000.00	₹ 50,000.00	AS per Approved R&R Plan.
12	Provision for pension for life to vulnerable affected persons @ 500/Month	500/month	500/month	500/month	Vulnerable affected persons need to be identified by the Administrator, R&R.
13	Training for Livelihood/Annuity Policies.	Rs 5 Lakh/PAF	₹ 5,00,000.00	₹ 5,00,000.00	As per approved R&R plan.
14	Free electricity @ 100 Units per PAF per Month for 10 years.	Lumpsum	lumpsum	lumpsum	Considering Rs 4.54/unit in Rural Areas. For Fully affected only.
15	One Time Resettlement to Fully affected PAF	Rs 50,000/-	₹ 50,000.00	₹ 50,000.00	As per approved R&R plan.
16	Stamp Duty and Registration for Homestead lan and House	fee payable shall be borne by requiring body	fee payable shall be borne by requiring body	fee payable shall be borne by requiring body	As per approved R&R plan.
17	Fishing Rights	allowed at reservoir as prescribed by appropriate Govt.	allowed at reservoir as prescribed by appropriate Govt.	allowed at reservoir as prescribed by appropriate Govt.	As per approved R&R plan.


 (Pagli Sora) APCS
 Deputy Commissioner
 Dibang Valley District
 Anini

GOVERNMENT OF ARUNACHAL PRADESH
OFFICE OF THE DIVISIONAL FOREST OFFICER
DIBANG FOREST DIVISION::ROING

Memo No. DF/CAMPA-52/2017/ 8187

Dtd. Roing the 20th December/2022

To,

✓ The Dy. General Manager (Env.)
Dibang Multipurpose Project
Mayu Sector, P.O. – Roing
Lower Dibang Valley
Arunachal Pradesh.

Sub:- Submission of details of Compensatory Afforestation under Dibang Multipurpose Project (2880-MW).

Ref:- Your letter No. NH/DMP/Env/2022/51 Dtd. 28/11/2022

D/Sir,

With reference to your letter No. quoted above, this is to furnish herewith the details of plantation under Compensatory Afforestation created during 2021-22 in prescribed format under this Division, Roing as shown below. In this regard, it is also worth to mention here that the Central and Circle Level Monitoring Team are inspecting the Compensatory Afforestation Plantation from time to time.

Further the same report have been already conveyed to NGT through PCCF vide this office No. DF/CAMPA-52/2017/6304-06 Dtd. 13/09/2022 a copy enclosed for ready reference.

Annex – I

Name of Division	Name of BF/PF/VPF	Area (ha)	No. of sapling planted	Species planted	Survival Rate (%)
Dibang Forest Division, Roing	Deopani RF	555.70 ha	611270 Nos.	Ajar, Simul, Gamari, Khokon, Koroi & Khair	92-95 %
	BishmaknagarVRF	173.0 ha	190300 Nos.	Sisso, Koroi, Khair, Gamari & Udal.	92-94%
	Khercin VRF	113.60 ha	124960 Nos.	Khair, Koroi & Bogipoma	94-95%
	Dibang RF	868.70 ha	955570 Nos.	Simul, Gamari, Koroi & Khair	91-93%

This is for favour of your kind information please.

Yours faithfully



(KENJUM RINA) DCF
DIVISIONAL FOREST OFFICER
DIBANG FOREST DIVISION::ROING

24/12/22
Dy. (R.R. & A)

GOVERNMENT OF ARUNACHAL PRADESH
OFFICE OF THE DIVISIONAL FOREST OFFICER
DIBANG FOREST DIVISION, ROING

Memo No. DF/CAMPA-52/2017/6304-06

Dtd. Roing the 13th Sept/2022

To,

The Principal Chief Conservator of Forests,
Environment, Forests and Climate Change
Govt. of Arunachal Pradesh,
Itanagar

Sub:- Submission of Additional reply in O.A No.17 of 2022 pertaining to Dibang Multi purpose Project (2880-MW)-Reg.

Ref:- Your No.FOR10-44/CONS/2003/Vol-VI/3551-57 dtd.13.9.2022

Sir,

In response to your letter No. quoted above, this is to submit herewith the following survival percentage of Compensatory Afforestation plantation- 1711.0 ha has taken up against diversion of Forest land for Dibang Multipurpose project (2880-MW) during the year 2021-22 in respective Reserved Forest/Village Reserved Forests pertaining to Dibang Forest Division, Roing.

Particulars	HA	Year of creation	Location	Survival % of plantation	Remarks
Creation of Compensatory Afforestation- 1711.0 ha (DMP- 2880 MW))	555.70 ha	2021-22	Deopani RF.	92-95%	
	868.70 ha	2021-22	Dibang R.F	91-93%	
	113.60 ha	2021-22	Kherem R.F	94-95%	
	173.0 ha	2021-22	Bhismaknagar VRF	92-94%	
Total	1711.0 ha				

This is for favour of your kind information please.

Your faithfully

(KENJUM RINA) DCF
DIVISIONAL FOREST OFFICER
DIBANG FOREST DIVISION, ROING

Copy to:-

1. The Chief Conservator of Forests, Eastern Arunachal Circle, Tezu for favour of his kind information please.
2. The Conservation file No.DF/Cons-28/2015 for ready reference.

O/c

(KENJUM RINA) DCF
DIVISIONAL FOREST OFFICER
DIBANG FOREST DIVISION, ROING

GOVT. OF ARUNACHAL PRADESH
OFFICE OF THE DIVISIONAL FOREST OFFICER
NAMSAI FOREST DIVISION:: NAMSAI

No. AND/ 69/2021/ CAMPA/ 14/93

Dated Namsai the 09th Dec, 2022

To,

The Deputy General Manager (Env.)
NHPC Limited
Mayu Sector, Roing
Lower Dibang Valley District

Sub:- Submission of details of Compensatory Afforestation under Dibang Multipurpose Project (2800 MW)

Ref:- No.DMP/Env./

Dtd. 28/11/2022

Sir,

In response to your letter under reference, enclosed please find herewith the details of Compensatory Afforestation carried out in Namsai Forest Division, Namsai under Dibang Multipurpose Project (2800 MW).

This is for favour of your kind information & necessary action please.

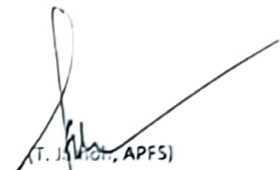
Enclo:- as stated above.

Yours faithfully,

(T. Jantson, APFS)
Divisional Forest Officer
Namsai Forest Division
Namsai

Namsai Forest Division, Namsai

Name of Division	Name of RF/PF/VPF	Area (ha)	No. of sapling planted	Species planted	Survival Rate (%)
Namsai Forest Division	Tengapani Reserve Forest	1000.00 Ha	11,11,000 Nos.	Khair, Gamari, Teak and Simul	85%


(T. J. J. J., APFS)
Divisional Forest Officer
Namsai Forest Division
Namsai

GOVT. OF ARUNACHAL PRADESH
OFFICE OF THE DIVISIONAL FOREST OFFICER
LIKABALI FOREST DIVISION

MEMO NO. 210/LKFD/FC/ITC/1-1

Dated Likabali the 16.1.2022.

To,

The Dy General Manager (Env) NHPC,
Dibang Multipurpose Project,
Mayu Sector, PO Roing
Distt Lower Dibang Valley
Arunachal Pradesh.

Sub: Furnishing of Detail Compensatory Afforestation under Dibang Multipurpose Project (2880 MW)

Ref: No. NH/DMP/Env/2022/51 dtd 28-11-2022

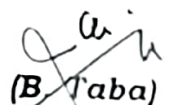
Sir,

With reference to the letter No. cited above on the subject, I am furnishing herewith the detail of Compensatory Afforestation plantation created in 3 (three) different locations in RF & PRF of Likabali Forest Division along with the survival percentage against the Project in prescribed format annexed in **Annexure-I**

This is for your information please.

Encls:-**Annexure-I**

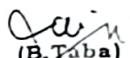
Yours faithfully


(B. Taba)

Divisional Forest Officer,
Likabali Forest Division.

ANNEXURE-I

Name of the Division	Name of RF/PRF/VPF	Area (In Hect)	Nos. of Sapling Planted	Species Planted	Survival Percentage (%)
1	2	3	4	5	6
Likabali Forest Division	Dipa RF	1192.3 Hect	1324645 nos.	Teak, Bohera, Hillika, BogiPoma, Azhar	80%
	Likabali RF	466.7 Hect	518504 nos.	Teak, Bohera, Bogi Poma, Gamari, Sopa, Azhar	80%
	Jiadhal PRF	2500 Hect	2777500 nos.	Teak, Bohera, BogiPoma, Azhar	75%


(B. Taba)
Divisional Forest Officer,
Likabali Forest Division



GOVERNMENT OF ARUNACHAL PRADESH
OFFICE OF THE DIVISIONAL FOREST OFFICER
KHELLONG FOREST DIVISION :: BHALUKPONG

Email: dfobhalukpong@gmail.com

290

No.KD/31/13/D/9858-57

Dated Bhalukpong, the 16th September' 2022.

To

The Additional Principal Chief Conservator of Forest (Const)
Govt. of Arunachal Pradesh
Itanagar

Sub: - Submission of additional reply in O.A No. 17 of 2022 pertaining to Dibang
Multi Purpose Project (2880 MW) – Reg.

Ref: - FOR.10-44/CONS/2003/Vol-VI/3551-57 Dated 13.09.2022

Sir,

With reference to your good office letter cited above, this is to inform you that the CA Plantation taken up against Dibang Multi Purpose Project in respect of Khellong Forest Division, Bhalukpong is 2286 Ha. The survival percentage of the CA Plantation is above 90% till date.

This is for kind information and necessary action please.

Yours faithfully

(V.K. Jawal)IFS
Divisional Forest Officer
Khellong Forest Division
Bhalukpong

Copy to:

The Chief Conservator of Forest, Western Arunachal Circle, Banderdewa for information and necessary action please.

(V.K. Jawal)IFS
Divisional Forest Officer
Khellong Forest Division
Bhalukpong



Details of Compensatory Afforestation works (9156 ha) of Dibang MPP

S.No	Name of Division	Name of RF/PF/VRF	Area (ha)	No of Saplings planted	Survival Rate %
1.	Dibang Forest Division	Deopani RF	555.7	611270	92-95
		Bhishmaknagar VRF	173	190300	92-94
		Kherem VRF	113.6	124960	94-95
		Dibang RF	868.7	955570	91-93
2.	Namsai Forest Division	Tengapani PRF	1000	1111000	85
3.	Likabali Forest Division	Dipa RF	1192.3	1324645	80
		Likabali RF	466.7	518504	80
		Jiadhal RF	2500	2777500	75
4.	Khellong Forest Division	Amortola PRF	2286	--	90



Form- V
[See rule 7 (1)]



Format for common consent order/authorization
ARUNACHAL PRADESH STATE POLLUTION CONTROL BOARD
Paryavaran Bhawan, Yupia Road, Papu Hill, Naharlagun

No. APSPCB-90/2023/DMP/1891-95

Date: 14/09/2023

CONSENT

Consent to establish/operate under Section 25 / 26 of the Water (Prevention & Control of Pollution) Act, 1974, as amended from time to time and under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended and Authorization under Rule 5 of Hazardous Wastes (Management & Handling) Rules, 1989, as amended from time to time (to be referred as Water Act and Air Act Respectively).

Consent is hereby granted to **Dibang Multipurpose Project (2880 MW)** for construction of Hydroelectric Project (2880 MW) at Munli village, Roing Circle, Lower Dibang Valley district, Arunachal Pradesh in the area declared under the provisions of the Water Act/Air Act subject to the provisions of the Act and Rules and the orders that may be made further and subject to the following terms and conditions.

1. The consent to establish is granted for a period of 2 (two) years w.e.f **26.06.2023 to 25.06.2025**, after which the applicant shall submit a fresh application for renewal of consent order before 3 months of the expiry of the validity.
2. The Consent is valid for operation of Hydro Electric Project.

Sl No	Name of the Project	Installed Capacity (MW)	Address	Executed by
01	Dibang Multipurpose Project	2880 MW	Munli Village, Roing Circle, District Lower Dibang Valley, A.P.	NHPC Limited

3. Conditions under Water Act:

The project proponent shall not change any natural physic-chemical parameters of the river:

Sl. No	Substance or Characteristics	Requirement Desirable Limit	Permissible Limit (in absence of alternate source)
1	2	3	4
(1)	Colour (Hazen Unit) max	5	25
(2)	Odour	Unobjectionable	--

(3)	Taste	Agreeable	--
(4)	Turbidity	5	10
(5)	pH value	6.5 – 8.5	No relaxation
(6)	TDS mg/l	200	2000
(7)	Alkalinity (as CaCO ₃) mg/l	200	600
(8)	Total hardness (as CaCO ₃) mg/l, max	300	600
(9)	Chlorides (as Cl), mg/l, max	250	1000
(10)	Calcium (as Ca), mg/l, max	75	200
(11)	Magnesium (as Mg), mg/l, max	30	100
(12)	Sulphate (as SO ₄), mg/l, max	200	400
(13)	Dissolved Solids, mg/l, max	500	2000
(14)	Residual Chlorine (as Cl ₂), mg/l, max	0.2	1.0
(15)	Iron (as Fe), mg/l, max	0.3	1.0
(16)	Nitrate, mg /l	45	100
(17)	Fluoride, mg/l	---	1.5
(18)	Boron, mg/l	1.0	5.0
(19)	Cadmium, mg/l	0.01	--
(20)	Chromium, mg/l	0.05	--
(21)	Cyanide, mg/l	0.05	--
(22)	Copper, mg/l	0.05	--
(23)	Lead, mg/l	0.05	--
(24)	Zinc, mg/l	5.0	15.0
(25)	Total Coliform (MPN/100 ml of Water)	3	10
(26)	Dissolved Oxygen, mg/l, max	4	6
(27)	BOD, mg/l	2	--

4. Conditions under Air Act:

- (a) The project proponent shall erect the chimney(s)/stacks of the following specifications:

Chimney/Stack attached to	Height of the Stack
D.G Set	of the specification: $H=h+2\sqrt{KVA}$

Where H= Height of the stack, h= height of the D.G Set (0.5) and KVA= Capacity of the D.G Set.

- The project proponent shall install a comprehensive air pollution control systems and not change any natural parameters of the ambient air:

Sl. No	Pollutants	Time Weight	Conc. in ambient air, $\mu\text{g}/\text{m}^3$ Industrial area, residential, sensitive area, rural & other areas.		
1	2	3	4		
1.	Sulphur dioxide (SO_2)	Annual As ** 24 hours	80 120	60 80	15 30
2.	Oxides of Nitrogen (NO_x)	Annual As **	80 120	60 80	15 30
3.	Suspended Particulate Matter (SPM)	Annual As **	300 500	140 200	40 100
4.	Respirable Particulate Matter(not < 10 mg)	Annual As ** 24 hours	120 150	60 100	0.5 75
5.	Lead (Pb)	Annual As ** 24 hours	1.0 1.5	0.75 1.00	0.5 0.75
6.	Carbon Monoxide (CO), mg/ml	8 hours*** 1 hour	5.0 10.0	2.0 4.0	0.5 2.0
** Annual Arithmetic mean of minimum 104 measurement in year					
*** 24 hourly/8 hourly values should be met 98% of the time in year					
However, 2% of the time, it may exceed but not on two consecutive days					

- Regular grading of haul roads and service roads to clear accumulation of loose material.
- The vehicle and machinery shall be kept in well maintained condition, so that emissions are minimized.
- Plantation of broad leaf trees, shrubs and other vegetations along the roads.
- Noise Pollution :** The project proponent shall comply with the following for controlling Noise Pollution.
 - Proper and regular maintenance of vehicles, machinery and other equipments.
 - The generator shall be installed in a closest area with a silencer and suitable noise absorption systems. The ambient noise level shall be not exceed 75 dB (A) during day and 70dB (A) during night time.

10. Solid Wastes

- (a) An appropriate waste management system should be put into place for the disposal of all types of wastes including the solid waste generated in the labour camps, project colonies, offices and other sites of the project. Septic tanks and soak pits, sewage treatment plants, community toilets, land fill/compost pits (as per site condition) should be put in place
- (b) The project proponent shall use the top soil for plantation/green belt development.

11. Hazardous Wastes

The project proponent shall comply with the Hazardous (Management & Handling) Rules, 1989 with subsequent amendments and regulation notified by the MoEF&CC, Govt. of India and shall be implemented:

- (i) The Hazardous Wastes (if any) like the spent oil & grease should be stored in a container and shall be placed in and reinforced concrete structure (RCC) floor with 1-2 slopes under covered shed so as to avoid rain water entering into the storage premises.
- (ii) The project proponent shall dispose off the wastes scientifically and submit the Annual Report in prescribed form to APSPCB.

12. Self Monitoring Schedule

Applicant shall get the samples of treated effluents/emissions/hazardous wastes/leachates analysed at least once in six (6) months a year from the laboratory recognized by the SPCB/CPCB/MoEF&CC, New Delhi and confirm to the limits stipulated. Analysis frequency could be different for various sources as may be specified by the Board. The test report shall be sent to SPCB periodically as specified. Further, the project proponent shall keep a separate financial provision to carry out pre & post environment monitoring and evaluation of the air quality of the project area which shall be done by APSPCB.

13. Other Conditions

- (a). The consent of the Board shall be exhibited in the factory premises/project site at conspicuous place for the information of the premises of the inspecting officers of different departments.
- (b). No damages to the flora and fauna of the area shall be caused. Ex-Situ conservation of the endemic species of flora/fauna lost/disturbed in the process of execution of the project may be ensured.
- (c). The forest land shall not be used for any purpose other than that specified in the proposal.
- (d). The project proponent shall also submit six (6) monthly reports on the status of the compliance of the stipulated environmental conditions

including results of monitored data to the Regional Office of MoEF, the respective Zonal office of CPCB and the APSPCB.

- (e) The Environmental Statement for each financial year ending 31st march in Form-V as is mandated to be submitted by the project proponent to the APSPCB as prescribed under the Environment (Protection) Rule, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MoEF, Shillong.
- (f). The project proponent/user agency should ensure that Green belt of adequate width is raised and maintained around the reservoir of the cost of the project.

14. Notwithstanding anything contained in this consent, the Board (APSPCB) hereby reserves its right and power under Section 27(2) of Water (Prevention and Control of Pollution) Act, 1974 and under Section 21(4) of Air (Prevention and Control of Pollution) Act, 1981 to review any or all the conditions imposed herein and make such alternation as deemed fit and stipulate any additional conditions by the Board. The APSPCB may revoke or suspend the order, if implementation of any of the above conditions is not satisfactory.


(Koj Rinya, IFS)
Member Secretary

No. APSPCB-90/2023/DMP/ 1891 - 95


Date: 14/09/2023

To,

Sri U.S. Sahi, Executive Director
Dibang Multipurpose Project (2000 MW),
NHPC Limited (A Government of India Enterprise)
Roing, Roing Circle, District Lower Dibang Valley
Arunachal Pradesh- 792110.

Copy to:

1. The Principal Secretary (EFCC) cum Chairman APSPCB, Govt. of Arunachal Pradesh, Itanagar for kind information please.
2. The Secretary (Power), Government of Arunachal Pradesh for information please.
3. The Deputy Commissioner, Lower Dibang Valley district and Dibang Valley district, Govt. of Arunachal Pradesh for kind information.
4. The Divisional Forest Officer, Banderdewa Forest Division for kind information.
5. Office Copy


(Koj Rinya, IFS)
Member Secretary
Member Secretary
APSPCB
Naharlung



Larsen & Toubro Limited
L&T Construction
Heavy Civil Infrastructure
Mount Poonamallee Road, Manapakkam
P.B. No. 979, Chennai – 600 089, INDIA
CIN: L99999MH1946PLC004768

L&T/NHPC/DIBANG/LOT2/2024/385

Date: 12th Apr'2024

To,
The Executive Director
M/s NHPC Limited
Dibang Multipurpose project
Roing Dist. Lower Dibang Valley
Arunachal Pradesh, PIN 792 110
Email: hop-dibang@nhpc.nic.in

Project: Lot 2 Work "Construction of Access Roads to Project Dam Site, Left Bank Road Network, Dibang Bridges, Dam Site Right Bank Road Network and Temporary Haulage Road to Pathar Camp from ADC Morh Including all Civil and HM Works of Diversion Tunnel for NHPC Ltd, Dibang Multipurpose Project (2880MW), Arunachal Pradesh."

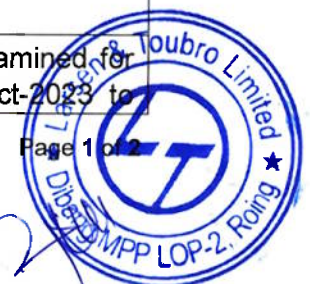
Sub: Submission of Progress Report on Environmental Aspects (Oct'2023 to Mar'2024)

Ref: 1. LOA No. एनएच/सीसी-1/दिबांग/लॉट-2/2023/1018 dated 27.02.2023;
2. CA No. NHPC/CCW/DIBANG/LOT-2 WORKS;
3. NH/DMP/HoP/2024/25 dated 06.04.2024.

Dear Sir,

With reference to the letter cited above at (3), where the Employer has requested for submission of Progress Report on Environmental Aspects (Oct'2023 to Mar'2024), the Contractor is providing herewith the requested compliance details as outlined below:

S.No	Environment Condition/Safeguard	Compliance
1	Adequate arrangement for Providing free fuel like kerosene/LPG etc. to laborers. Details on Expenditure incurred in this regard.	Adequate Number of LPG gas Cylinder has been provided to workers colony. Photograph of the same is enclosed as Annexure-A A total of 179 No's of LPG Cylinder issued for labors and total Rs. 3,49,696 has been incurred for the purchase of LPG gas cylinder from Oct-2023 to March -2024. Details of the expenditure is enclosed as Annexure-B
2.	Details on medical facilities provided by the contractor as well as recreational facilities provided to the laborers.	A well-equipped First Aid room along with Ambulance facilities has been provided at the construction site for the Preliminary treatment of the laborers. Photographs of the same is enclosed as Annexure-A Details of medical facilities and medical Staffs is enclosed as Annexure-C Also, for the major injury we are having tie up with the Hospital for further treatment. Copy of the Hospital tie-up is enclosed as Annexure-D
3	Details on proper through examination of laborers	Total 469 Numbers of labors has been examined for construction work during the period of Oct-2023 to

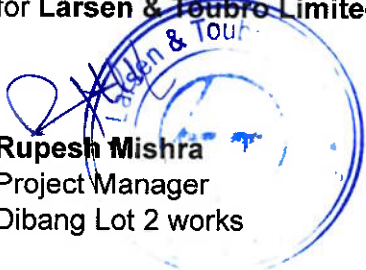


S.No	Environment Condition/Safeguard	Compliance
	engaged for construction work by health personal.	March-2024. Details of the same is enclosed as Annexure-E
4	Details on water Sprinkling arrangement to suppress the fugitive emission / dust in working area.	To suppress the fugitive dust emission at the Construction site, regular water sprinkling has been done by the water Tanker. Photograph of the same is enclosed as Annexure-A
5	Details on potable drinking water and proper sanitary facilities provided by the contractor to the labor camp.	Adequate no of drinking water & Adequate no's of Toilet facilities has been provided for construction workers at the site and camp. RO system also provided. For maintain good hygienic at site and camp, septic tank along with Soak Pit has been installed. Photographs of the same is enclosed as Annexure-A
6	Details on solid waste management & sanitation facilities provided for the laborers. Approximate expenditure incurred in this regard may also intimated.	As per Solid waste management Rules, 2016 Proper Segregation of waste has been done different Color-coded bins have been provided & Adequate no's of Toilet facilities has been provided for construction workers at the site and camp Photographs of the same is enclosed as Annexure-A Total Rs 14,25,691 has been expended for the Period Oct-2023 to March- 2024. Details of the same is enclosed as Annexure- F

Thanking you and always assuring you of our best services.

Yours faithfully,

for **Larsen & Toubro Limited**,


Rupesh Mishra
Project Manager
Dibang Lot 2 works

Enclosures:

1. Annexure-A: Photographs.
2. Annexure-B: Details of Expenditure (Oct-2023 to March-2024).
3. Annexure-C: Details of Medical Facilities at Site.
4. Annexure-D: Agreement of Hospital Tie-Up.
5. Annexure-E: Total Medical Examination of Labors (Oct-2023- March-2024).
6. Annexure-F: Total Expenditure on Sanatory facilities and Solid waste management.

Copy to:

1. The General Manager (Environment)/NHPC

Annexure-A (Photographs)



Fig 1: Photographs of LPG Gas Cylinder for Laborers Mess



Fig ii: Image of Ambulance and medical room



Fig iii: Water Sprinkling through tanker.





Fig iv: Image of RO Plant installed at site and camp.



Fig v: Toilet facilities at different sites



Fig vi: Dust bins has been provided for segregation of waste at labors camp and on site.



Annexure-B

Details of Fuel Expenditure (Oct-2023 to March-2024)

S. No	Month	Description	Quantity (No.)	Rate (Rs)	Total Amount (Rs)
1	October	LPG	26	1890.5	49,153
2	November	LPG	34	1993	67,762
3	December	LPG	26	1936	50,336
4	January	LPG	33	1936	63,888
5	February	LPG	27	1993	53,811
6	March	LPG	33	1962	64,746
	Total		179		Rs. 3,49,696

Dr. K. Manoj



Annexure-C
Details of Medical Facilities at Site

- 1. Medical Unit (1 No)**
 - 3 No's of bed
 - Oxygen facilities 2 No's
- 2. Ambulance (1 No)**
 - Incubation Set (1 No's)
 - Suction Unit (1 No)
 - Ambu bags
 - Oxygen Facilities (2 No's)
- 3. Medical staff's details**
 - 1 Doctor
 - 2 First aider
- 4. All Emergency Medicines.**

S.P.K. Datta





Larsen & Toubro Limited
L & T Construction
Heavy Civil Infrastructure
Mount Poonamallee Road
Manapakkam, P.B. No. 979
Chennai-600089, INDIA
CIN: L99999MH19S46PLC004768

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding is made the 1st day of June 2023.

BETWEEN

ADITYA DIAGNOSTICS & HOSPITAL having its hospital at Bordoloi Avenue, AMC Road, Dist. Dibrugarh-786005, Assam, which expression shall unless repugnant to the context or meaning thereof be deemed to mean and include its successors and assigns.

AND

LARSEN & TOUBRO LIMITED, having its office at Mount Poonamallee Road, Manapakkam, Chennai — 600 089. Project Office at: DS Hotel, Gas Agency Road, Infront of Standard Diagnostic Center, Roing, Lower Dibang Vally, Arunachal Pradesh. Hydro Electric Project, herein after referred to as "THE COMPANY", which expression shall unless be repugnant to the context or meaning thereof be deemed to mean and include its successors and assigns.

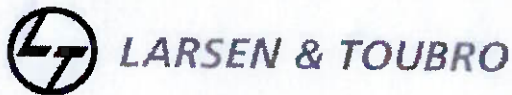
Whereas, the company has approached the hospital, for the purpose of providing medical services to its employees, dependents & contract labours engaged in Lower Dibang Hydro Electric Project, Lot-2, Roing, Arunachal Pradesh.

The hospital agreed to provide medical services to the employees, dependents & contract labours of the company and both the parties do hereby agree as follows:

This MoU is valid from 1st June 2023 to 1st Aug 2024

1. The hospital agrees to provide all diagnostic services, surgeries, and other procedures both as OP, IP and during emergencies to the employees, & contract labours of the company on cashless basis.
2. Upon discharge of the patient, the hospital shall provide the detailed bill along with all diagnostic reports and discharge summary to the company.
3. On receipt of the bills from the hospital, the company shall make the payment to the hospital within 15 days of receipt of the bills with all necessary supporting documents.
4. The employees, dependents & contract labours of the company will present a referral letter duly signed by the authorized signatory of the company along with copy of ID card to avail any of the identified services at the Hospital.
5. Names and signatures of such authorized signatories of the referral letter duly countersigned by the Medical Officer/IR Dept, of the company will be submitted to hospital by the company.
6. The Hospital will keep the health information of the employees of the company with utmost confidentiality and will provide the same on request to the Medical Officer/IR & Admin of the company.





Larsen & Toubro Limited
L & T Construction
Heavy Civil Infrastructure
Mount Poonamallee Road
Manapakkam, P.B. No. 979
Chennai-600089, INDIA
CIN: L99999MH19S46PLC004768

7. Both the hospital and the company personnel will be abiding by the rules and regulations mutually agreed upon. Any breach of the same shall be brought to the notice of the hospital or the company management, as the case may be and there shall be no direct conflict with the concerned employee.
8. Ambulance will be provided by the hospital for pick up patients during emergencies, if need be, in short notice.
9. The Hospital will submit the bills towards the medical services rendered to the company's employees, dependents & contract labours, immediately after the discharge of the patient. Payment will have to be made by the company within 15 days of receipt of the bills.
10. This MoU shall come into force from the date hereof. Either party may terminate this MoU upon 15 days' notice in writing to the other party, provided in the event of material breach by either party of the terms hereof, the other party may terminate this MoU with immediate effect.
11. Neither party shall transfer its rights or obligations in any manner whatsoever without the prior consent of the other.
12. The parties agree that the terms and conditions of this MoU are confidential and shall not be disclosed to any third party without prior written consent from the non-disclosing party unless such disclosure is required in the court of law.

Each party represents that:

- a. It has the power and authority to enter this MoU and perform its obligations hereunder.
- b. Both the parties execute this MoU so long as it is not inconsistent with the laws and other constituent documents of both the parties.
- c. The individual(s) signing this MoU on its behalf, whose name appears below, has the authority to execute and deliver this MOU.
- d.

In witness whereof, the parties have caused this MoU to be executed by their respective duly authorized representatives.

For and on behalf of
Larsen & Toubro Limited



DGM Accounts & Administration

For and on behalf of
ADITYA DIAGNOSTICS & HOSPITAL

Annexure-E

Total Medical Examination of Labors (Oct-2023- March-2024)

S.No	Month	Number of Labors Examines	Remarks
1	October	57	Nil
2	November	68	Nil
3	December	39	Nil
4	January	97	Nil
5	February	106	Nil
6	March	102	Nil
	Total	469	Nil



Annexure-F

Total Expenditure on Sanatory facilities and Solid waste management

S.No	Descriptions	Quantity (No's)	Amount (Rs)
1	Septic tank	13	1295523
2	Dustbins	72	130168
3	Total		Rs. 14,25,691



DIBANG POWER (LOT 4) CONSORTIUM

(Joint Venture of G R Infraprojects Limited and Patel Engineering Limited)

Ref No.: GRIL-PEL(JV)/NHPC/Dibang/Lot-IV/0167

Date: 18.04.2024

To,

Engineer-In-Charge

Dibang Multipurpose Project
National Hydro Power Corporation Limited,
Mayu Sector, PO – Roing,
Lower Dibang Valley District,
Arunachal Pradesh – 792 110.
Email id- lot4-dibang@nhpc.nic.in

Sub: Construction of Civil works for LOT-4: Head Race Tunnel including Intake, Pressure Shafts, Penstocks, Powerhouse & Transformer Cavern, Tail Race Tunnel, Pothead, Yard, Adits for Dibang Multipurpose Project, Arunachal Pradesh, India: **Submission of Progress Report on Environment Aspects (Oct 2023 to March 2024)**

Reference:

1. LOA No. NH/CC-1/Dibang/Lot-4/2023/1526-1538 dt. 25-08-2023.
2. NH/DMP/HoP/2024/24 Dated 06.04.2024

Dear Sir,

With reference to the captioned subject, your letter under ref. (2) and pursuant to Sub-Clause 4.18 of GCC / PCC, the Contractor hereby submits the Progress Report on Environment Aspects (Oct 2023 to March 2024).

This is for your information and record please.

Thanking you

Yours Faithfully,

For **Dibang Power (Lot 4) Consortium**


Birendra Choubey
Authorized Signatory



Encl: Six monthly Progress Report on Environment Aspects (Oct 2023 to March 2024) (from Page no.01 to 13)

Copy to:

- Mr. Sharad Jaikar, General Manager (Civil), Dibang Multipurpose Projects. Mayu Sector, PO – Roing, Lower Dibang Valley District, Arunachal Pradesh – 792 110.

HEAD OFFICE:

C/O G R INFRAPROJECTS LIMITED, NOVUS TOWER, 2ND FLOOR,
PLOT NO. 18, SECTOR-18, GURUGRAM-122 015, HARYANA, INDIA.
PH.: +91 124 6435000.

SITE OFFICE:

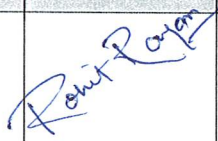


P.O - ROING, MAYU-I,
DISTRICT - LOWER DIBANG VALLEY,
ARUNACHAL PRADESH - 792 110.

E-MAIL: LOT4DHRT@GRINFRA.COM



**Six monthly Progress Report on Environment Aspects
(Oct 2023 to March 2024)**

PROJECT NAME: DIBANG MULTIPURPOSE PROJECT 2880 MW (12 X 240 MW) ARUNACHAL PRADESH (INDIA)		
EMPLOYER NAME:	National Hydroelectric Power Corporation Limited (NHPC)	
CONTRACTOR NAME:	Dibang Power (Lot 4) Consortium	
CONTRACT DETAILS:	Construction of Civil works for LOT-4: Head Race Tunnel including Intake, Pressure Shafts, Penstocks, Powerhouse & Transformer Cavern, Tail Race Tunnel, Pothead, Yard, Adits for Dibang Multipurpose Project, Arunachal Pradesh, India.	
DOCUMENT TITLE:	Progress Report on Environment Aspects (Oct 2023 to March 2024)	
LETTER NUMBER:	GRIL-PEL(JV)/NHPC/Dibang/Lot-IV/0167	REV NO-R0

	Name	Designation	Signature	Date
Prepared By	Mr. Rohit Ranjan	Sr. Engineer Safety		10-04-2024
Reviewed By	Mr. Abhishek Kumar Roy	Sr. Manager- Safety		10-04-2024
Approved By	Mr. Birendra Kumar Choubey	AVP/Project Manager		10-04-2024

Contents

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3.	Briefing Tunnel Construction Activities & its Environmental Aspects	9
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Fig.1	Project Location
Fig.2	Site View
Fig.3	Project Plan
Fig.4	Project Layout
Fig.5	Weather Average by Month
Fig.6	Average monthly hours of Sunshine
Fig.7	Average Temperature by Months Roing
Fig.8	Average Temperature by Months Roing
Fig.9	Average Temperature & Precipitation
Fig.10	Average Temperature & Precipitation
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Fig.13	
Fig.14	Daily House Keeping
Fig.15	Daily Dust Mitigation
Fig.16	Accommodation For workers & staffs at Base Camp

Fig.17	Mess facility for workers & staffs at base camp
Fig.18	Kitchen at base camp
Fig.19	First aid centre at site
Fig.20	Housekeeping at site
Fig.21	Electrode bucket
Fig.22	First aid foundation work in progress

Table 1: Environmental Aspects during Construction Activities
Table 2: Energy/Power Consumption Details
Table 3: Monthly Water consumption Data
Table 4: Good Practices

Abbreviation

CO	Carbon Monoxide
CPCB	Central Pollution Control Board
MT	Metric Tonne
MOEFCC	Ministry of Environment, Forest & Climate Change
NAAQS	National Ambient Air Quality Standards
NABL	National Accreditation Board for Testing & Calibration Laboratories
NOx	Oxides of nitrogen
PM	Particulate matter
QCI	Quality Council of India
SO ₂	Sulphur dioxide

1. Project Profile

This section shall provide the following details of the project:

1. Name/ Identity of the project : Lot 4- Dibang Multipurpose Project, 2880 MW (12X 240 MW), Arunachal Pradesh- All works comprising head race tunnels including intake, pressure shafts, penstocks, powerhouse & Transformer cavern, tai race tunnels, pothead yard, adits etc.
2. Client / Employer : National Hydroelectric Power Corporation Limited
3. Project Layout : Dibang Multipurpose Project is a multi-purpose project with power generation and flood moderation as two of its main purposes. It is located on river Dibang and lies at latitude 28°11' 50" N to 29°25' 59" N and longitude 95°14' 47"E to 96°36' 49"E. The Project site is located at a distance of 43 km from Roing, the nearest District headquarters of Lower Dibang Valley District and present headquarter of the Project.
4. Overall scope of work & List of Activities : Item Rate (FIDIC Based) All works comprising head race tunnels including intake, pressure shafts, penstocks, powerhouse & Transformer cavern, tai race tunnels, pothead yard, adits etc.
5. Project duration : 86 months
6. Contractor : **DIBANG POWER (LOT 4) CONSORTIUM**

PROJECT LOCATION



Fig: 1 Project Location



Fig: 2 Site View

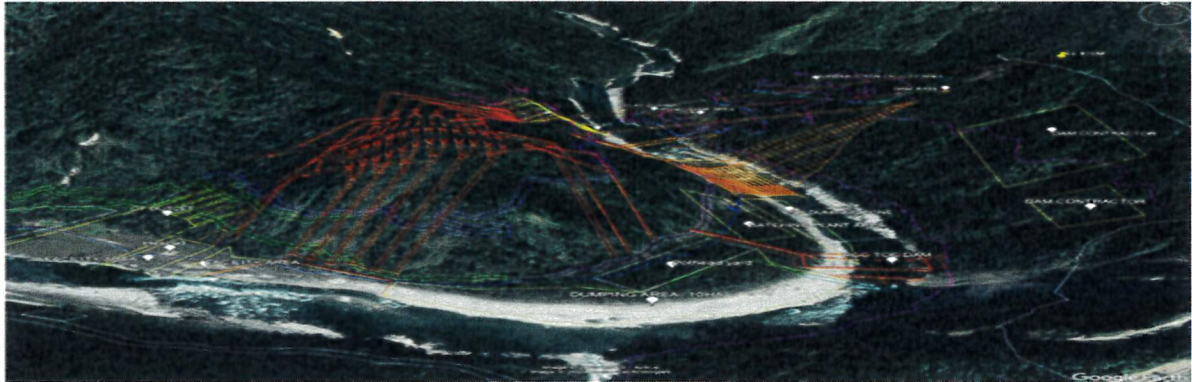


Fig: 3 Project Plan



Fig: 4 Project Layout

2. Site in brief & Climate Condition

Dambuk village, nestled by the banks of the Dibang and the Sisseri rivers in the Lower Dibang Valley of Arunachal Pradesh used to remain isolated for nearly eight months each year. Until recently, the picturesque and sparsely inhabited village had no access to electricity and mobile connectivity. Heavy rainfall during summer would cause the rivers to swell and transform the village into a serene island, rendering it virtually inaccessible.

WEATHER BY MONTH // WEATHER AVERAGES ROING

< >

	January	February	March	April	May	June	July	August	September	October	November	December
Avg. Temperature °C (°F)	14.9 °C (58.8) °F	16.6 °C (62) °F	19.1 °C (66.4) °F	21.2 °C (70.2) °F	23.9 °C (75) °F	25.5 °C (77.9) °F	25.6 °C (78.1) °F	25.9 °C (78.6) °F	25.2 °C (77.3) °F	22.6 °C (72.6) °F	18.6 °C (65.6) °F	15.8 °C (60.4) °F
Min. Temperature °C (°F)	8.5 °C (47.3) °F	10.4 °C (50.7) °F	12.9 °C (55.2) °F	16.3 °C (61.3) °F	20.1 °C (68.1) °F	22.7 °C (72.9) °F	23.4 °C (74.1) °F	23.3 °C (74) °F	21.9 °C (71.3) °F	17.5 °C (63.4) °F	12.4 °C (54.3) °F	9.5 °C (49.1) °F
Max. Temperature °C (°F)	20.2 °C (68.3) °F	21.8 °C (71.3) °F	24.1 °C (75.3) °F	26.2 °C (77.3) °F	27.1 °C (80.7) °F	28.1 °C (82.5) °F	27.8 °C (82.1) °F	28.4 °C (83.1) °F	28 °C (82.5) °F	26.6 °C (79.9) °F	23.0 °C (75) °F	21.2 °C (70.2) °F
Precipitation / Rainfall mm (in)	47 (1)	119 (4)	202 (11)	467 (18)	485 (19)	569 (22)	615 (24)	379 (14)	340 (13)	115 (4)	27 (1)	21 (0)
Humidity(%)	62%	60%	61%	72%	76%	80%	84%	82%	80%	73%	66%	64%
Rainy days (d)	5	7	12	15	17	19	21	20	19	7	3	3
avg. Sun hours (hours)	8.4	8.3	8.4	8.5	9.2	8.1	6.7	7.2	8.0	9.1	9.0	8.6

Data: 1991 - 2021 Min. Temperature °C (°F), Max. Temperature °C (°F), Precipitation / Rainfall mm (in), Humidity, Rainy days. Data: 1999 - 2019: avg. Sun hours

Fig: 5 Weather Average by Month (Ref : Weather Archive Dāmbuk - meteob
https://www.meteoblue.com/en/weather/historyclimate/weatherarchive/d%c4%81mbuk_india_1273606_oblue)

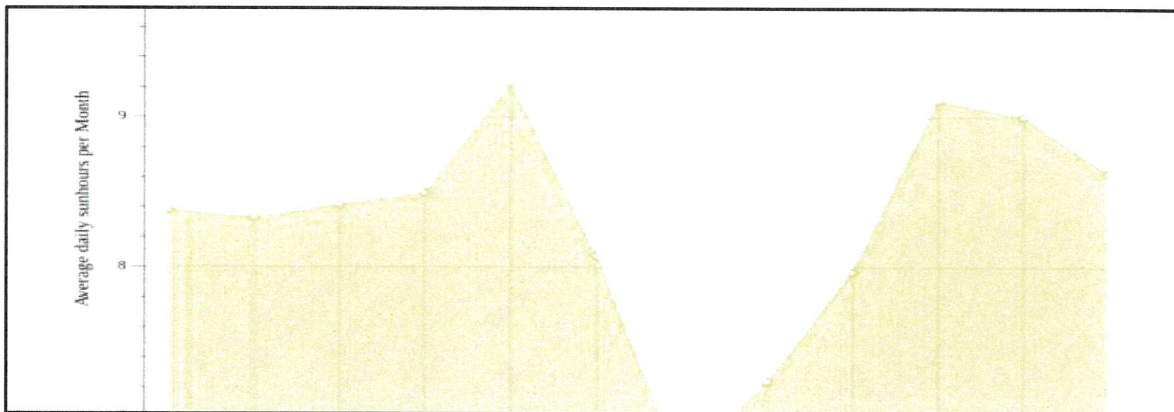


Fig: 6 Average Daily Sunshine Dambuk (Ref :
https://www.meteoblue.com/en/weather/historyclimate/weatherarchive/d%c4%81mbuk_india_1273606)

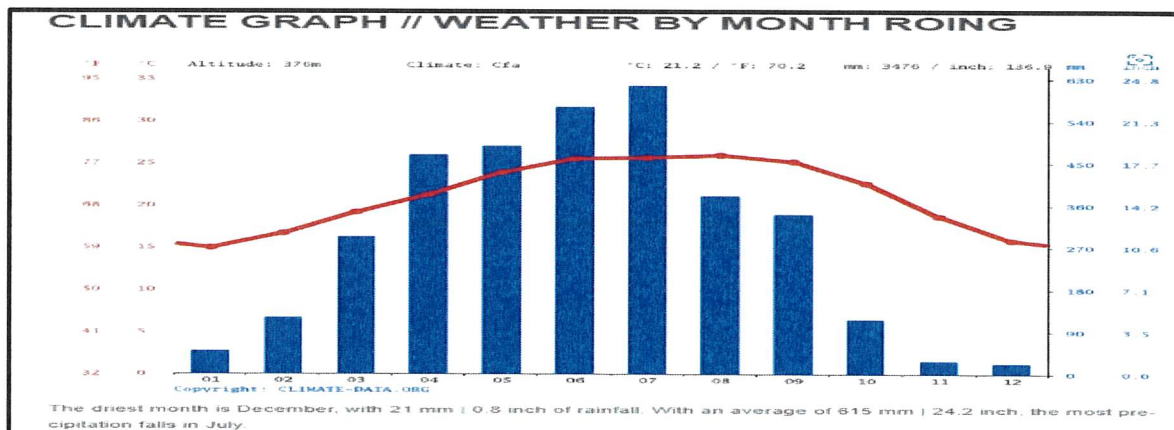


Fig: 7 Average Temperature by Months Roing (Weather Archive Dāmbuk - meteoblue)

AVERAGE TEMPERATURE BY MONTH ROING

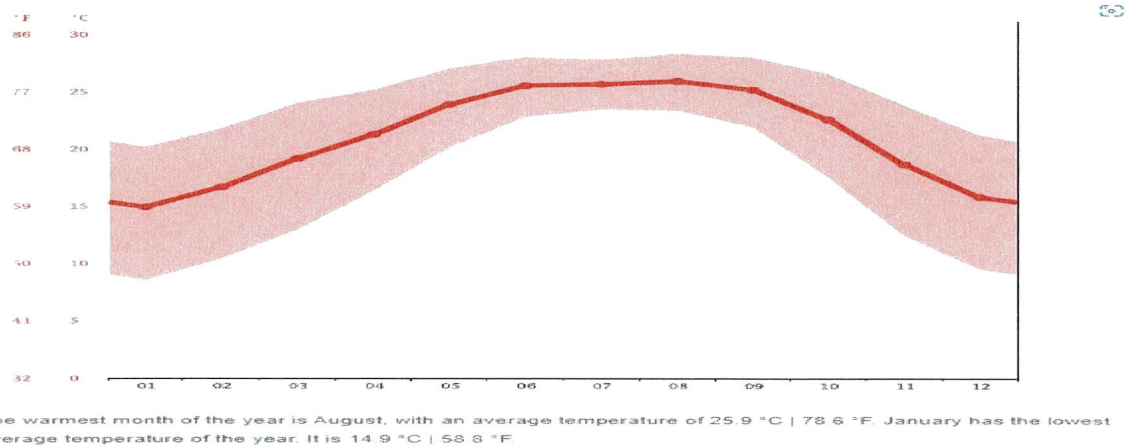


Fig: 8 Average Temperature by Months Roing ([Weather Archive Dāmbuk - meteoblue](#))

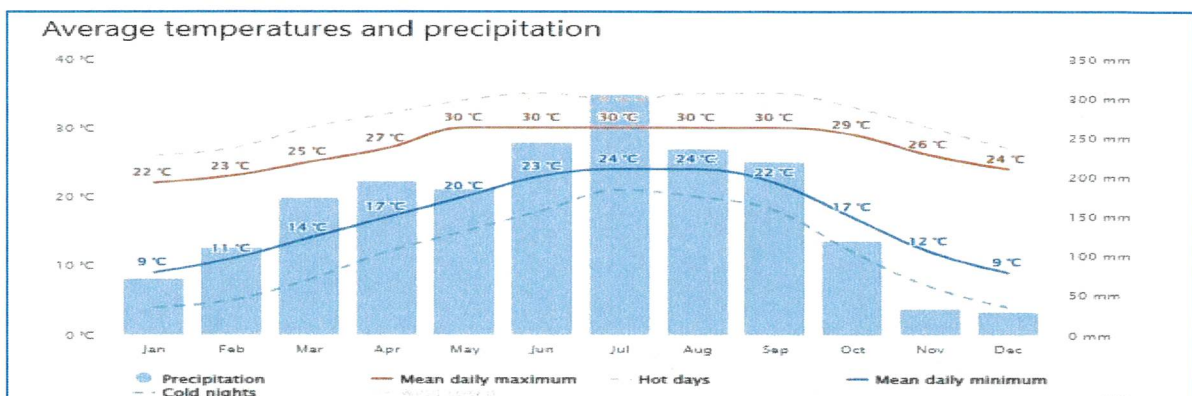
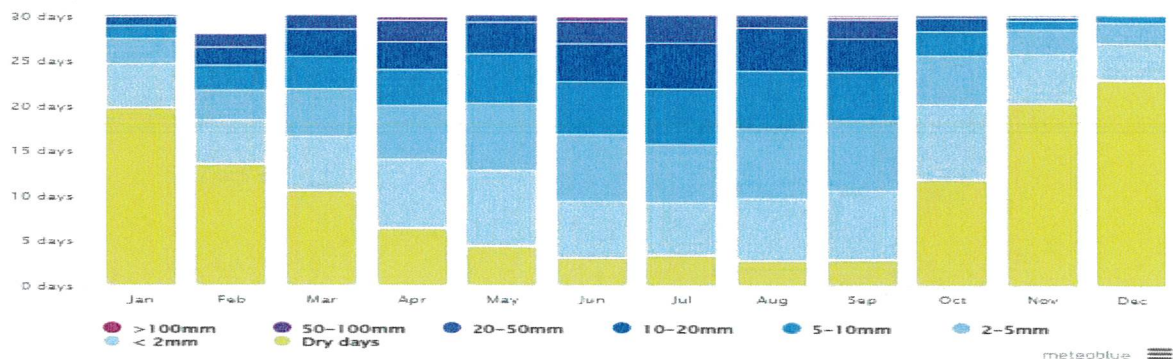


Fig: 9 Average Temperature & Precipitation ([Simulated historical climate & weather data for Dāmbuk - meteoblue](#))

Precipitation amounts



The precipitation diagram for Dāmbuk shows on how many days per month, certain precipitation amounts are reached. In tropical and monsoon climates, the amounts may be underestimated.

Fig: 10 Average Temperature & Precipitation ([Simulated historical climate & weather data for Dāmbuk - meteoblue](#))

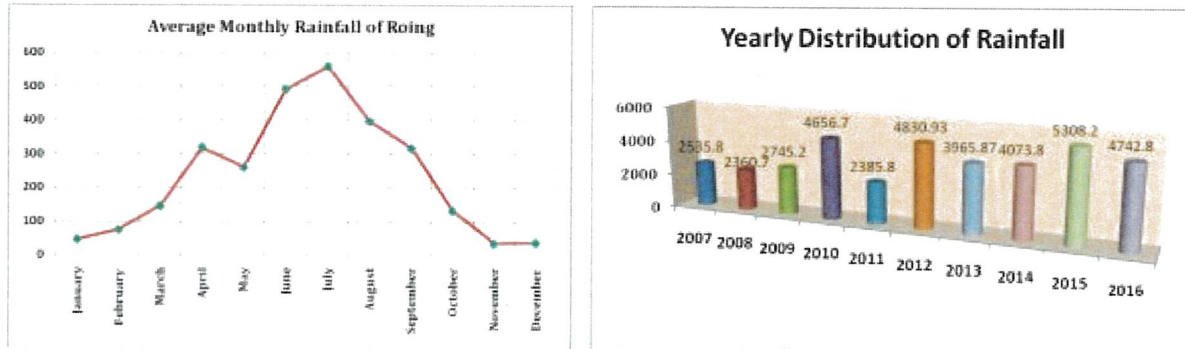


Fig: 11 Monthly & Yearly Precipitation (Simulated historical climate & weather data for Dāmbuk - meteoblue)

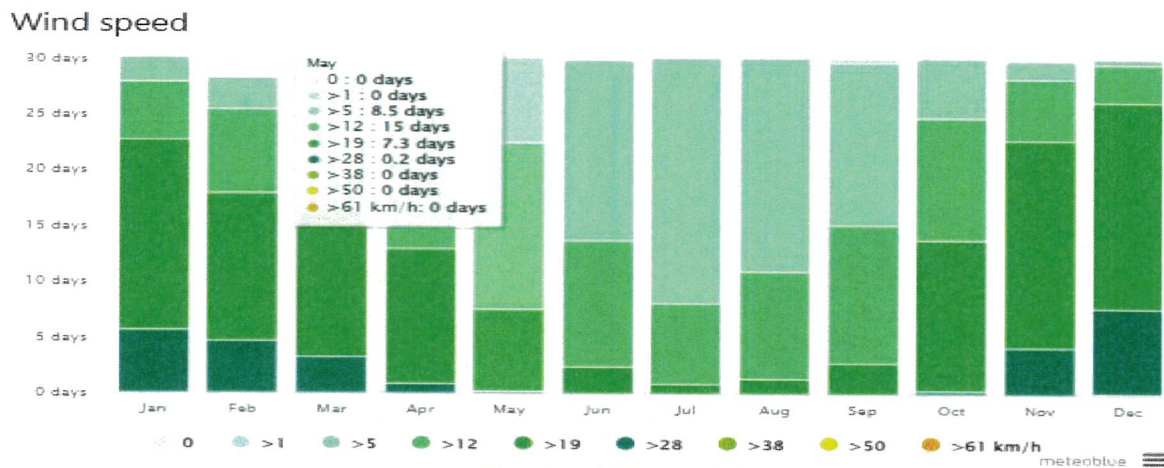


Fig: 12 Average Wind Speed Monthly (Simulated historical climate & weather data for Dāmbuk - meteoblue)

3. Briefing Tunnel Construction Activities & its Environmental Aspects



Fig: 13

S. No.	Activity	Environmental Aspects
1	Reinforcement Shifting	Fuel Consumption.
2	Reinforcement Cutting/ Binding	Electrical Energy Consumption.
3	Batching Plant Operation & Concrete Transportation	Cement Feeding, Fuel Consumption, Disposal of Waste material, Consumption of water
4	Shotcreting & Support system in tunnel.	Noise Generation, Concrete mixture uses. Welding of iron/steel works & Rib erector or Telehandler.
5	Excavation / Roadheader operation	Fuel Consumption, Dust emission.
6	Blasting	Using Explosive (Emulsion explosive, detonators e.g., NED & ED), waste generation like C&D waste, Steel waste.
7	Muck Disposal	Dust spreading, Emission of gases from vehicle,
8	Housekeeping & Material Shifting at site (Mechanically)	Fuel Consumption, Using water for the purpose, Noise Generation, Gaseous Emission.

4. Brief Description of Environmental quality

Air Quality

Air pollutants are of various kinds and are classified under several categories and tested by NABL labs after sampling of air for AQI Checks.

For the adverse effect mitigation following measures are being taken at site:

- 1) The workforce is provided with Nose Mask to mitigate the adverse effects due to dust on workmen at site operations.
- 2) Water Sprinkling to suppress dust, arrangement at site.

Noise Quality

Checking of noise generation and tested by NABL labs after sampling.

For the adverse effect mitigation following measures are being taken at site:

- 1) The workforce is provided with Ear Plug to mitigate the adverse effects of noise generated due to operation of machinery & equipment on workmen at site operations.

5. Energy/Power consumption details

Diesel (ltr)		Electricity (kwa)		LPG (units)
Jan+Feb	March	Feb	March	Jan+Feb+March
92687	77333	NA	NA	840

6. Dust Mitigation Measures

Water sprinkling at site through tanker to suppress dust.

7. Good Practices

1. Adequate arrangements for lodging & Fooding
2. First Aid Treatment facility at site & Base Camp
3. Medical Induction of workmen
4. Dust Mitigation measures
5. Proper arrangements for potable drinking water at site & base camp

Photos has been attached for the references.

Amenities:



Fig: 14 Daily House Keeping



Fig:15 Daily Dust Mitigation

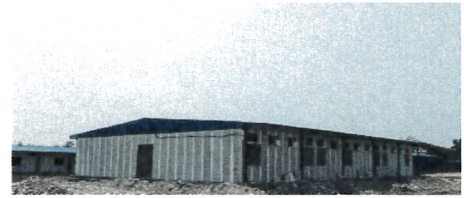


Fig: 16 Accommodation for workers & staff at Base Camp



Fig :17 Mess Facility for workers & staff at Base Camp



Fig: 18 Kitchen at Base Camp

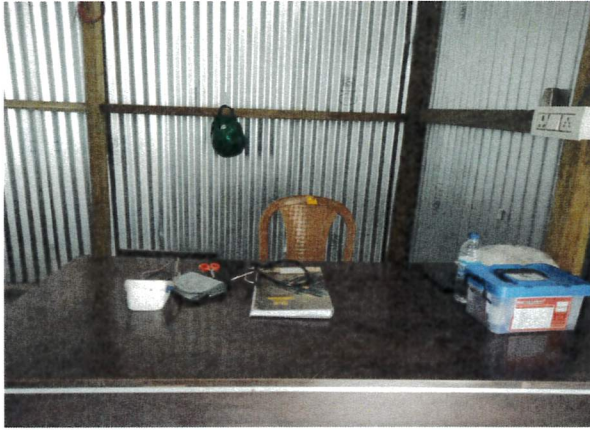


Fig: 19 First Aid Centre at site



Fig: 20 House Keeping at Site

Fig: 21 Electrode Bucket

Waste management is crucial to reducing the environmental impact of welding. Properly disposing of welding waste products like spent welding electrodes, empty cylinders, and other by-products is important.



Fig: 22 First Aid Centre Foundation Excavation

Data in Figures :

Waste Generated	Qty
Biomedical (KG)	0.2
C & D (KG)	NA
Food (KG)	NA
Paper (KG)	NA

Waste Disposal	Qty
Biomedical (KG)	NA
C & D (KG)	NA
Food (KG)	NA
Paper (KG)	NA

Waste Recycling	Qty
Biomedical (KG)	NA
C & D (KG)	NA
Food (KG)	NA
Paper (KG)	NA

Energy Consumption	Qty
Diesel (Liters)	77333
Petrol (Litres)	NA
LPG (KG)	840
Electricity (KW/H)	NA
Water Consumption (KLD)	NA

Annex –III (i)

POLLUTION MONITORING AT CONSTRUCTION SITES OF DIBANG MULTIPURPOSE PROJECT



Ambient air quality monitoring at construction sites of the Project.





Noise Quality monitoring at construction sites of the Project

Noise Quality monitoring at construction sites of the Project.





Stack monitoring of DG Sets installed at different construction sites of the Project.

Water Quality Testing at different construction sites of the Project.



Format No.: ENV/R/TR/19/AA-01

Rev. No.: 00

AMBIENT AIR QUALITY TEST REPORT

ULR No.	NA		
Report No.	ENV/TR/L&T/24-25/A-01	Issue Date	06/05/2024
Order No.	LE/LE23M144/WOD/24/000045	Order Date	18/03/2024
Report Issued To	LARSEN & TOUBRO LIMITED, CONSTRUCTION PB No. 979, Mount-Poonamallee Road, Manapakkam, Chennai - 600089, Tamil Nadu, India		

Sample Ref. No.:	L&T/2024/A-2404/01	Sample Source:	DT Outlet	Weather Condition:	Cloudy
Date of Sampling:	24.04.2024	Sample Receipt Date:	25.04.2024	Instrument Used:	FPS, RDS & Gaseous Attachment, CO Analyser
Analysis Start Date:	26.04.2024	Analysis End Date:	30.04.2024	Sampled By:	Bidyut Kalita, Envirocon

TEST RESULTS

Sl. No.	Parameters	Test Method	Results	Units	Limits*
1.	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	IS 5182 (Part 24)	9.2	µg/m ³	60 (24 Hours Average)
2.	Particulate Matter (size less than 10 µm) or PM ₁₀	IS 5182 (Part 23)	38.6	µg/m ³	100 (24 Hours Average)
3.	Sulphur Dioxide (as SO ₂)	IS 5182 (Part 2)	BDL [MDL: 5.0]	µg/m ³	80 (24 Hours Average)
4.	Nitrogen Dioxide (as NO ₂)	IS 5182 (Part 6)	BDL [MDL: 5.0]	µg/m ³	80 (24 Hours Average)
5.	Carbon Monoxide (as CO)	IS 5182 (Part 10)	BDL [MDL: 0.1]	mg/m ³	4.0 (1 Hour Average)

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum Detectable Limit

* Limits as per G.S.R. 826(E), 16.11.2009

*****End of Report*****



Authorised Signatory: Mr. Pankaj Baroi (Director)

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Format No.: ENV/R/TR/19/SE-01

Rev. No.: 00

STACK EMISSION TEST REPORT

ULR No.	NA		
Report No.	ENV/TR/L&T/24-25/SE-01	Issue Date	06/05/2024
Order No.	LE/LE23M144/WOD/24/000045	Order Date	18/03/2024
Report Issued To	LARSEN & TOUBRO LIMITED, CONSTRUCTION PB No. 979, Mount-Poonamallee Road, Manapakkam, Chennai - 600089, Tamil Nadu, India		

Sample Ref. No.:	L&T/2024/SE-2404/01	Sample Source:	DG Set 500 KVA/400 KW Make: Moteurs Baudouin Eng. No.: M5123F00174	Material of Construction:	M. S.
Shape of Stack:	Circular	Height of Stack & Diameter:	15 ft & 8 inch	Fuel Used:	H. S. D
Sampling Date:	24.04.2024	Sample Receipt Date:	25.04.2024	Instrument Used:	ENV/SMK/01 & ENV/GA/01
Analysis Start Date:	30.04.2024	Analysis End Date:	02.05.2024	Sampled By:	Bidyut Kalita, Envirocon

TEST RESULTS

Sl. No.	Parameters	Test Method	Results	Units	Limits*
1.	Stack Gas Temperature	IS 11255 (Part 3)	290	°C	-
2.	Stack Gas Velocity	IS 11255 (Part 3)	18.2	m/s	-
3.	Stack Gas Flow Rate	IS 11255 (Part 3)	1125	Nm ³ /hr	-
4.	Particulate Matter	IS 11255 (Part 1)	0.04	g/kW-hr	0.3
5.	Sulphur Dioxide (as SO ₂)	Electrochemical Sensor	2	ppm	-
6.	Oxide of Nitrogen (as NO _x)	Electrochemical Sensor	870	ppm	-
7.	Hydrocarbon (as C _x H _y)	Electrochemical Sensor	BDL [MDL = 1.0]	%	-
8.	Carbon Monoxide	Electrochemical Sensor	1.48	g/kW-hr	3.5
9.	Carbon Dioxide (as CO ₂)	Electrochemical Sensor	10.2	%	-
10.	Oxygen (as O ₂)	Electrochemical Sensor	6.5	%	-

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum Detectable Limit

* Limits as per CPCB norms.

*****End of Report*****



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Format No.: ENV/R/TR/19/SE-01

Rev. No.: 00

STACK EMISSION TEST REPORT

ULR No.	NA		
Report No.	ENV/TR/L&T/24-25/SE-02	Issue Date	06/05/2024
Order No.	LE/LE23M144/WOD/24/000045	Order Date	18/03/2024
Report Issued To	LARSEN & TOUBRO LIMITED, CONSTRUCTION PB No. 979, Mount-Poonamallee Road, Manapakkam, Chennai - 600089, Tamil Nadu, India		

Sample Ref. No.:	L&T/2024/SE-2404/02	Sample Source:	DG Set 250 KVA/200 KW Make: Moteurs Baudouin Eng. No.: A922K000133	Material of Construction:	M. S.
Shape of Stack:	Circular	Height of Stack & Diameter:	15 ft & 8 inch	Fuel Used:	H. S. D
Sampling Date:	24.04.2024	Sample Receipt Date:	25.04.2024	Instrument Used:	ENV/SMK/01 & ENV/GA/01
Analysis Start Date:	30.04.2024	Analysis End Date:	02.05.2024	Sampled By:	Bidyut Kalita, Envirocon

TEST RESULTS

Sl. No.	Parameters	Test Method	Results	Units	Limits*
1.	Stack Gas Temperature	IS 11255 (Part 3)	261	°C	-
2.	Stack Gas Velocity	IS 11255 (Part 3)	19.3	m/s	-
3.	Stack Gas Flow Rate	IS 11255 (Part 3)	1193	Nm ³ /hr	-
4.	Particulate Matter	IS 11255 (Part 1)	0.12	g/kW-hr	0.3
5.	Sulphur Dioxide (as SO ₂)	Electrochemical Sensor	1	ppm	-
6.	Oxide of Nitrogen (as NO _x)	Electrochemical Sensor	515	ppm	-
7.	Hydrocarbon (as C _x H _y)	Electrochemical Sensor	BDL [MDL = 1.0]	%	-
8.	Carbon Monoxide	Electrochemical Sensor	1.81	g/kW-hr	3.5
9.	Carbon Dioxide (as CO ₂)	Electrochemical Sensor	11.0	%	-
10.	Oxygen (as O ₂)	Electrochemical Sensor	9.9	%	-

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum Detectable Limit

* Limits as per CPCB norms.

*****End of Report*****



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Format No.: ENV/R/TR/19/N-01

Rev. No.: 00

NOISE LEVEL TEST REPORT

ULR No.	NA		
Report No.	ENV/TR/L&T/24-25/N-01	Issue Date	06/05/2024
Order No.	LE/LE23M144/WOD/24/000045	Order Date	18/03/2024
Report Issued To	LARSEN & TOUBRO LIMITED, CONSTRUCTION PB No. 979, Mount-Poonamallee Road, Manapakkam, Chennai - 600089, Tamil Nadu, India		

Sample Type:	Ambient Noise	Category of Area/Zone:	Industrial Area	Date of Monitoring:	22.01.2024
Sound Meter Used:	ENV/SLM/01	Sampled By:	Bidyut Kalita, Envirocon		

TEST RESULTS

Sl. No.	Locations	Time Duration	Test Method	Result Leq dB (A)
1.	DT Outlet (GPS: 28.328373°N, 95.762155°E)	Day Time	IS 9989 (RA 2020)	70.5
2.	DT Outlet (GPS: 28.328373°N, 95.762155°E)	Night Time	IS 9989 (RA 2020)	64.8

NA: Not Applicable

Limit :

Category of Area/ Zone	Limit in dB (A) L_{eq}	
	Day Time	Night Time
Industrial Area	75	70
Commercial Area	65	55
Residential Area	55	45
Silence Zone	50	40

*****End of Report*****



Authorised Signatory: Mr. Pankaj Baroi (Director)

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Format No.: ENV/R/TR/19/N-01

Rev. No.: 00

NOISE LEVEL TEST REPORT

ULR No.	NA		
Report No.	ENV/TR/L&T/24-25/N-02	Issue Date	06/05/2024
Order No.	LE/LE23M144/WOD/24/000045	Order Date	18/03/2024
Report Issued To	LARSEN & TOUBRO LIMITED, CONSTRUCTION PB No. 979, Mount-Poonamallee Road, Manapakkam, Chennai - 600089, Tamil Nadu, India		

Sample Type:	DG Noise	Category of Area/Zone:	DG Set	Date of Monitoring:	24.04.2024
Sound Meter Used:	ENV/SLM/01	Sampled By:	Bidyut Kalita, Envirocon		

TEST RESULTS

Sl. No.	Locations	Time Duration	Test Method	Result Leq, dB (A)
1.	DG Set 500 KVA Make: Moteurs Baudouin, Eng. No.: M5123F00174	Day Time	IS 9989 (RA 2020)	74.1
2.	DG 250 KVA Make: Moteurs Baudouin, Eng. No.: A922K000133	Day Time	IS 9989 (RA 2020)	73.6

NA: Not Applicable

Limit : 75 db(A) at 1 meter distance as per CPCB norms.

*****End of Report*****



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Format No.: ENV/R/TR/19/DW-01

Rev. No.: 00

DRINKING WATER TEST REPORT

ULR No.	NA		
Report No.	ENV/TR/L&T/24-25/W-01	Issue Date	06/05/2024
Order No.	LE/LE23M144/WOD/24/000045	Order Date	18/03/2024
Report Issued To	LARSEN & TOUBRO LIMITED, CONSTRUCTION PB No. 979, Mount-Poonamallee Road, Manapakkam, Chennai - 600089, Tamil Nadu, India		

Sample Ref. No.:	L&T/2024/W-2504/01	Sample Source:	Punjabi Camp Borewell	Sample Type:	Drinking Water
Date of Sampling:	25.04.2024	Sample Receipt Date:	25.04.2024	Sample Quantity:	2000 ml
Analysis Start Date:	25.04.2024	Analysis End Date:	04.05.2024	Sampled By:	Bidyut Kalita, Envirocon

TEST RESULTS

Sl. No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour	IS 3025 (Part 4)	2	PCU	5	15
2.	Odour	IS 3025 (Part 05)	Odourless	-	Agreeable	Agreeable
3.	Taste	IS 3025 (Part 07)	Tasteless	-	Agreeable	Agreeable
4.	Turbidity	IS 3025 (Part 10)	0.24	NTU	1	5
5.	pH@25.2°C	IS 3025 (Part 11)	6.42	-	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids	IS 3025 (Part 16)	105	mg/l	500	2000
7.	Aluminium (as Al)	IS 3025 (Part 55)	BDL[MDL:0.01]	mg/l	0.03	0.2
8.	Ammonia (as total ammonia-N)	IS 3025 (Part 57)	BDL[MDL:0.01]	mg/l	0.5	No Relaxation
9.	Boron (as B)	IS 3025 (Part 16)	BDL[MDL:0.01]	mg/l	0.5	1.0
10.	Calcium (as Ca)	IS 3025 (Part 40)	32	mg/l	75	200
11.	Chloride (as Cl)	IS 3025 (Part 32)	7.3	mg/l	250	1000
12.	Copper (as Cu)	IS 3025 (Part 42)	BDL[MDL:0.001]	mg/l	0.05	1.5
13.	Fluorides (as F)	IS 3025 (Part 60)	BDL[MDL:0.01]	mg/l	1.0	1.5
14.	Free Residual Chlorine	IS 3025 (Part 26)	BDL[MDL:0.01]	mg/l	0.2	1
15.	Iron (as Fe)	IS 3025 (Part 53)	0.18	mg/l	0.3	No Relaxation
16.	Magnesium (as Mg)	IS 3025 (Part 46)	4	mg/l	30	100
17.	Manganese (as Mn)	IS 3025 (Part 59)	BDL[MDL:0.001]	mg/l	0.1	0.3
18.	Zinc (as Zn)	IS 3025 (Part 49)	BDL[MDL:0.01]	mg/l	5.0	15
19.	Nitrate (as NO ₃)	IS 3025 (Part 34)	BDL[MDL:0.1]	mg/l	45	No Relaxation
20.	Phenolic Compounds (as C ₆ H ₅ OH)	IS 3025 (Part 43)	BDL[MDL:0.001]	mg/l	Max. 0.001	Max. 0.002

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum Detectable Limit

* Limits as per IS 10500:2012



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Page 1 of 2

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Format No.: ENV/R/TR/19/DW-01

Rev. No.: 00

DRINKING WATER TEST REPORT

ULR No.	NA		
Report No.	ENV/TR/L&T/24-25/W-01	Issue Date	06/05/2024
Order No.	LE/LE23M144/WOD/24/000045	Order Date	18/03/2024
Report Issued To	LARSEN & TOUBRO LIMITED, CONSTRUCTION PB No. 979, Mount-Poonamallee Road, Manapakkam, Chennai - 600089, Tamil Nadu, India		

TEST RESULTS

Sl. No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
21.	Selenium (as Se)	IS 3025 (Part 56)	BDL[MDL:0.001]	mg/l	Max. 0.01	No Relaxation
22.	Sulphide (as H ₂ S)	IS 3025 (Part 29)	BDL[MDL:0.01]	mg/l	Max. 0.05	No Relaxation
23.	Sulfate (as SO ₄)	IS 3025 (Part 24)	8	mg/l	200	400
24.	Total Alkalinity(as CaCO ₃)	IS 3025 (Part 23)	128	mg/l	200	600
25.	Total Hardness, (as CaCO ₃)	IS 3025 (Part 21)	151	mg/l	200	600
26.	Cyanide (as CN)	IS 3025 (Part 27)	BDL[MDL:0.01]	mg/l	Max. 0.05	No Relaxation
27.	Lead (as Pb)	IS 3025 (Part 47)	BDL[MDL:0.001]	mg/l	Max. 0.01	No Relaxation
28.	Mercury (as Hg)	IS 3025 (Part 48)	BDL[MDL:0.001]	mg/l	Max. 0.001	No Relaxation
29.	Total Arsenic (as As)	IS 3025 (Part 37)	BDL[MDL:0.001]	mg/l	0.01	0.05
30.	Total Chromium, (as Cr)	IS 3025 (Part 52)	BDL[MDL:0.001]	mg/l	0.05	No Relaxation
31.	Total Coliform Bacteria	CPCB Guidelines	Absent	MPN/100 ml	Absent	Absent
32.	E. Coli	CPCB Guidelines	Absent	MPN/100 ml	Absent	Absent

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum Detectable Limit

* Limits as per IS 10500:2012

*****End of Report*****



Authorised Signatory: Mr. Pankaj Baroi (Director)

Page 2 of 2

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Format No.: ENV/R/TR/19/DW-01

Rev. No.: 00

DRINKING WATER TEST REPORT

ULR No.	NA		
Report No.	ENV/TR/L&T/24-25/W-02	Issue Date	06/05/2024
Order No.	LE/LE23M144/WOD/24/000045	Order Date	18/03/2024
Report Issued To	LARSEN & TOUBRO LIMITED, CONSTRUCTION PB No. 979, Mount-Poonamallee Road, Manapakkam, Chennai - 600089, Tamil Nadu, India		

Sample Ref. No.:	L&T/2024/W-2504/02	Sample Source:	27 Ha Borewell Water	Sample Type:	Drinking Water
Date of Sampling:	25.04.2024	Sample Receipt Date:	25.04.2024	Sample Quantity:	2000 ml
Analysis Start Date:	25.04.2024	Analysis End Date:	04.05.2024	Sampled By:	Bidyut Kalita, Envirocon

TEST RESULTS

Sl. No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour	IS 3025 (Part 4)	2	PCU	5	15
2.	Odour	IS 3025 (Part 05)	Odourless	-	Agreeable	Agreeable
3.	Taste	IS 3025 (Part 07)	Tasteless	-	Agreeable	Agreeable
4.	Turbidity	IS 3025 (Part 10)	0.21	NTU	1	5
5.	pH@25.3°C	IS 3025 (Part 11)	6.11	-	6.5 – 8.5	No Relaxation
6.	Total Dissolved Solids	IS 3025 (Part 16)	134	mg/l	500	2000
7.	Aluminium (as Al)	IS 3025 (Part 55)	BDL[MDL:0.01]	mg/l	0.03	0.2
8.	Ammonia (as total ammonia-N)	IS 3025 (Part 57)	BDL[MDL:0.01]	mg/l	0.5	No Relaxation
9.	Boron (as B)	IS 3025 (Part 16)	BDL[MDL:0.01]	mg/l	0.5	1.0
10.	Calcium (as Ca)	IS 3025 (Part 40)	29	mg/l	75	200
11.	Chloride (as Cl)	IS 3025 (Part 32)	6.5	mg/l	250	1000
12.	Copper (as Cu)	IS 3025 (Part 42)	BDL[MDL:0.001]	mg/l	0.05	1.5
13.	Fluorides (as F)	IS 3025 (Part 60)	BDL[MDL:0.01]	mg/l	1.0	1.5
14.	Free Residual Chlorine	IS 3025 (Part 26)	BDL[MDL:0.01]	mg/l	0.2	1
15.	Iron (as Fe)	IS 3025 (Part 53)	0.21	mg/l	0.3	No Relaxation
16.	Magnesium (as Mg)	IS 3025 (Part 46)	7	mg/l	30	100
17.	Manganese (as Mn)	IS 3025 (Part 59)	BDL[MDL:0.001]	mg/l	0.1	0.3
18.	Zinc (as Zn)	IS 3025 (Part 49)	BDL[MDL:0.01]	mg/l	5.0	15
19.	Nitrate (as NO ₃)	IS 3025 (Part 34)	BDL[MDL:0.1]	mg/l	45	No Relaxation
20.	Phenolic Compounds (as C ₆ H ₅ OH)	IS 3025 (Part 43)	BDL[MDL:0.001]	mg/l	Max. 0.001	Max. 0.002

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum Detectable Limit

* Limits as per IS 10500:2012



Authorised Signatory: Mr. Pankaj Baroi (Director)

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NOTE:

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- Results refer only to the particular parameters tested.
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Format No.: ENV/R/TR/19/DW-01

Rev. No.: 00

DRINKING WATER TEST REPORT

ULR No.	NA		
Report No.	ENV/TR/L&T/24-25/W-02	Issue Date	06/05/2024
Order No.	LE/LE23M144/WOD/24/000045	Order Date	18/03/2024
Report Issued To	LARSEN & TOUBRO LIMITED, CONSTRUCTION PB No. 979, Mount-Poonamallee Road, Manapakkam, Chennai - 600089, Tamil Nadu, India		

TEST RESULTS

Sl. No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
21.	Selenium (as Se)	IS 3025 (Part 56)	BDL[MDL:0.001]	mg/l	Max. 0.01	No Relaxation
22.	Sulphide (as H ₂ S)	IS 3025 (Part 29)	BDL[MDL:0.01]	mg/l	Max. 0.05	No Relaxation
23.	Sulfate (as SO ₄)	IS 3025 (Part 24)	12	mg/l	200	400
24.	Total Alkalinity(as CaCO ₃)	IS 3025 (Part 23)	146	mg/l	200	600
25.	Total Hardness, (as CaCO ₃)	IS 3025 (Part 21)	172	mg/l	200	600
26.	Cyanide (as CN)	IS 3025 (Part 27)	BDL[MDL:0.01]	mg/l	Max. 0.05	No Relaxation
27.	Lead (as Pb)	IS 3025 (Part 47)	BDL[MDL:0.001]	mg/l	Max. 0.01	No Relaxation
28.	Mercury (as Hg)	IS 3025 (Part 48)	BDL[MDL:0.001]	mg/l	Max. 0.001	No Relaxation
29.	Total Arsenic (as As)	IS 3025 (Part 37)	BDL[MDL:0.001]	mg/l	0.01	0.05
30.	Total Chromium, (as Cr)	IS 3025 (Part 52)	BDL[MDL:0.001]	mg/l	0.05	No Relaxation
31.	Total Coliform Bacteria	CPCB Guidelines	Absent	MPN/100 ml	Absent	Absent
32.	E. Coli	CPCB Guidelines	Absent	MPN/100 ml	Absent	Absent

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum Detectable Limit

* Limits as per IS 10500:2012

*****End of Report*****



Authorised Signatory: Mr. Pankaj Baroi (Director)

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Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

ENVIROCON

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ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
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in the field of

TESTING

Certificate Number: **TC-11042**

Issue Date: **05/10/2022**

Valid Until: **04/10/2024**

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : **ENVIROCON (ENVIRONMENTAL & POLLUTION MONITORING)**

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer