सत्यमेव जयते

GOVERNMENT OF ASSAM

ONE MAN ENQUIRY COMMITTEE

(ORDER No. FRW.6/2020/1 Dt. 12th June, 2020)

REPORT
ON
DAMAGES TO
ENVIRONMENT, BIODIVERSITY, WILDLIFE,
FORESTS & ECOLOGY

ON ACCOUNT OF

BLOW OUT AND EXPLOSION AT OIL WELL No. BGN-5

BAGHJAN, TINSUKIA

ASSAM (INDIA)

BY

MAHENDRA KUMAR YADAVA I.F.S.

ADDITIONAL PRINCIPAL CHIEF CONSERVATOR OF FORESTS (WILDLIFE)
&
CHIEF WILDLIFE WARDEN, ASSAM

10th February, 2021

VOLUME : III

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PART 1

PUBLIC HEARING NOTICES

জাননী

তাং - ২৪.০৬.২০২০

ইয়াৰ দ্বাৰা সৰ্বসাধাৰণ ৰাইজৰ জ্ঞাতাৰ্থে জনোৱা যায় যে অসম চৰকাৰে FRW.6/2020/1 তাৰিখ ১২.০৬.২০২০ নম্বৰ জাননীযোগে নিম্ন স্বাক্ষৰকাৰীক তিনিচুকীয়া জিলাৰ ডুমডুমা ৰাজহ চক্ৰৰ অধীনত বাঘজান এলেকাত সংঘটিত হোৱা অইল ইণ্ডিয়া লিমিটেডৰ তেলৰ খাদত হোৱা অস্বাভাৱিক গেছ নিৰ্গমন আৰু পৰৱৰ্তী সময়ত তথা অগ্নিকাণ্ডৰ ফলত হোৱা বন্যপ্ৰাণী, জৈৱবৈচিত্ৰ্য, পানী আৰু বায়ুৰ গুণগত মান তথা বন আৰু পৰিবেশৰ ওপৰত হোৱা অন্যান্য ক্ষয়-ক্ষতিৰ পৰিমান নিৰূপণৰ বাবে এক এজনীয়া তদন্ত সমিতি গঠন কৰি দায়িত্ব অৰ্পণ কৰিছে।

উক্ত বিষয় যেনে - পৰিবেশ, জৈৱবৈচিত্ৰ, বন্যপ্ৰাণী আদিৰ ক্ষয়-ক্ষতিৰ সন্দৰ্ভত কোনোৱা সৰ্বসাধাৰণ ৰাইজে বা অনুষ্ঠানে যদি কিবা মতামত, তথ্য তথা ওজৰ-আপত্তি দাঙি ধৰিব বিচাৰে তেন্তে ৰাইজৰ বা অনুষ্ঠানৰ প্ৰতিনিধিয়ে অহা ইং ২৬-০৬-২০২০, ২৭-০৬-২০২০ আৰু ২৮-০৬-২০২০ তাৰিখে তিনিচুকীয়া আৰক্ত ভৱনৰ Conference Hall ত দিনৰ ১১ বজাৰ পৰা ৪.৩০ বজাৰ ৰাজহুৱা শুনানি (Public Hearing)ত মতামত, ওজৰ-আপত্তি তথা তথ্য দাঙি ধৰিবলৈ আহ্বান জনোৱা হ'ল।

এই অনুষ্ঠানত COVID-19 ৰ বাবে চৰকাৰে যি নীতি নিৰ্দেশনা (মাস্ক পৰিধান কৰা, সামাজিক দূৰত্ব বজাই ৰখা, Sanitizer ব্যৱহাৰ কৰা আদি) জাৰি কৰিছে- এই সকলো নিৰ্দেশনা মানি চলিবলৈ আহ্বান জনোৱা হ'ল।

(এম. কে. যাদৱ, আই.এফ.এচ.)
অতিৰিক্ত প্ৰধান মুখ্য বন সংৰক্ষক
এজনীয়া ক্ষতি নিৰূপণ সমিতি

Janasanyog/D/1665/20

জাননী

তাং - ২৭-০৬-২০২০

যোৱা ইং ২৪-০৬-২০২০ তাৰিখৰ জাননীৰ জৰিয়তে কৰ'না মহামাৰী সংক্রমন প্রতিৰুধৰ বাবে চৰকাৰে প্রযোজ্য কৰা লকডাউনৰ পৰিপেক্ষিতত বাঘজান এলেকাত অয়েল ইন্ডিয়া লিমিটেড (Oil India Limited) ৰ তৈল ক্ষেত্রত হোৱা অস্বাভাৱিক গেছ নির্গমন আৰু পৰৱর্ত্তী সময়ত হোৱা অগ্নিকাণ্ডৰ ফলত হোৱা বন্যপ্রাণী, জৈৱবৈচিত্র, পানী আৰু বায়ুৰ গুনগত মান তথা বন আৰু পৰিবেশৰ ওপৰত হোৱা অন্যান্য ক্ষয়-ক্ষতিৰ পৰিমান নিৰূপনৰ বাবে এজনীয়া তদন্ত সমিটিৰ ওচৰত, তিনিচুকীয়া আৱত্ত ভবনৰ Conference Hall ত দিনৰ ১১ বজাৰ পৰা ৪.৩০ বজাৰ ৰাজহুৱা শুনানি (Public Hearing) ত মতামত, আপত্তিৰ সমূহ দাঙি ধৰাৰ তাৰিখ অহা ইং ২৮-০৬-২০২০ তাৰিখৰ পৰিবর্ত্তে ইং ২৯-০৬-২০২০ তাৰিখৰলৈকে বৃদ্ধি কৰা হৈছে ।

(এম. কে. যাদব, আই. এফ. এচ.)
অতিৰিক্ত প্রধান মূখ্য বন সংৰক্ষক
এজনীয়া ক্ষতি নিৰূপন সমিটি ।

PART 2

PROCEEDINGS OF PUBLIC HEARING

প্ৰতি,

তাং-১৮-০৭-২০২০

মাননীয় এম. কে. যাদব, আই. এফ. এচ.,
অতিৰিক্ত প্ৰধান মুখ্য বন-সংৰক্ষক,
এজনীয়া ক্ষতি নিৰূপণ সমিতি।

বিষয়ঃ- বাঘজানৰ তৈল - গেছ বিস্ফোৰণ কাণ্ডৰ ফলত ধ্বংসপ্ৰাপ্ত মাগুৰি-মতাপুং বিলৰ পাৰিপাৰ্শ্বিক পৰ্য্যটন উদ্যোগটো পুনঃ প্ৰতিষ্ঠা সন্দৰ্ভত স্থানীয় পৰ্য্যটন কৰ্মীৰ অভিমত প্ৰদান।

মহোদয়,

নমস্কাৰ ! বাঘজান অইল কাণ্ডৰ ফলত মাগুৰি-মতাপুং বিলৰ ঘাঁহনি এলেকাৰ প্ৰায় ৮০ % ধ্বংস হৈছে। এই ঘাঁহনিত দেখা পোৱা অসংখ্য স্থানীয় আৰু পৰিভ্ৰমী পক্ষীৰ বাবে খাদ্য সম্ভাৰ আছিল ঘাঁহনিডৰাৰ পোক- পতংগ, পৰুৱা ইত্যাদি ক্ষুদ্ৰ ক্ষুদ্ৰ প্ৰাণীসমূহ। বাঘজান- ৫ৰ পৰা নিৰ্গত হোৱা Condensate পৰি এই খাদ্য শৃংখল সম্পূৰ্ণৰূপে ধ্বংস হৈ গৈছে। যোৱা ৯ জুন, ২০২০ তাৰিখে গেছ নিৰ্গত খাদটোত জুই লগাত সেই জুইত ঘাঁহনিডৰাৰ এক বৃহৎ অংশ জ্বলি ছাই হৈ যায়। এই ঘাঁহনিডৰা আছিল মাগুৰি-মতাপুং বিল খনক লৈ গঢ়ি উঠা ইক' টুৰিজ্যম উদ্যোগটোৰ অন্যতম প্ৰধান সম্পদ। এই ঘাঁহনি এলেকাত ভালেমান দুস্পাপ্য প্ৰজাতিৰ পক্ষী যেনে Chestnut-capped Babbler, Marsh Babbler, Jerdon's Babbler, Black-breasted Parrotbill, Grey-necked Bunting, Swamp Prinia, Blue-Tailed Bee-Eater আদি দেখা পোৱা গৈছিল। অন্যহাতে এই ঘাঁহনিডৰাত বনৰীয়া ম'হ, হৰিণা, খুটিয়া পহু, শহা পহু, নাহৰ ফুটুকী, বন বোন্দা, জহামাল, শিয়াল আদি আপুৰুগীয়া জন্তু দেখা পোৱা গৈছিল। কিন্তু বাঘজান অইল কাণ্ডৰ ফলত ঘাঁহনি এলেকাটোত এই সমূহ প্ৰাণী নোহোৱা হৈ গ'ল। যোৱা ২৭ মে', ২০২০ তাৰিখৰ পৰা ৯ জুন, ২০২০ তাৰিখলৈকে খাদটোৰ পৰা অহৰহ Condensate পৰি থকাৰ ফলত মাগুৰি-মতাপুং বিলৰ জলভাণ্ডাৰ বিষাক্ত হৈ পৰে। অসংখ্য মাছ- কাছ, নদীয় শিহু, সৰীসৃপ আদিৰ মৃত্যু হোৱাৰ লগতে শেলুৰৈকে ধৰি বহুতো জলচৰ উদ্ভিদ আৰু প্ৰাণী প্লবক ধ্বংস হৈ যায়। ইয়াৰ ফলত অনাগত দিনত যদি বিভিন্ন প্ৰজাতিৰ মাছ- কাছ, অন্য জলচৰ প্ৰাণী বিলখনলৈ আগমণ ঘটে, তেন্তে সেই প্ৰাণীৰ বাবে খাদ্যৰ অভাৱ ঘটাটো নিশ্চিত। বিভিন্ন প্ৰজাতিৰ হাঁহ জাতীয় স্থানীয় আৰু পৰিভ্ৰমী পক্ষীৰ বাবে বিলখনত থকা শেলুৰে আৰু শেলুৰে জাতীয় খাদ্যবোৰ ধ্বংস হৈ গৈছে। গতিকে অনাগত ২/৩ বছৰলৈ পক্ষীৰ উপস্থিতি দেখা পোৱা নাযাব বুলি ধাৰণা কৰা হৈছে বা কমকৈ দেখা পোৱাৰ সম্ভাৱনা আছে। এই পক্ষীবোৰ হ'ল মাগুৰি-মতাপুং বিলৰ পাৰিপাৰ্শ্বিক পৰ্য্যটনৰ মূল সম্পদ। অনাগত ২/৩ বছৰলৈ বিলখন আৰু অঞ্চলটোত স্বাভাৱিকভাৱে পাৰিপাৰ্শ্বিক পৰ্য্যটন হোৱাৰ কোনো সম্ভাৱনা নাই। গতিকে এই উদ্যোগটোৰ সৈতে জড়িত প্ৰত্যেকজন পৰ্য্যটন কৰ্মীক ২/৩ বছৰলৈ ক্ষতিপূৰণ ৰূপে এককালীন অৰ্থসাহায্য প্ৰদান কৰিব লাগে। চৰকাৰে এনে পদক্ষেপ ললে থলুৱা প্ৰতিজন পৰ্য্যটন কৰ্মীয়ে বিলখনত পূৰ্বৰ পাৰিপাৰ্শ্বিক পৰ্য্যটন উদ্যোগটোৰ সুস্থিৰ অৱস্থা ঘূৰাই অনাৰ ক্ষেত্ৰত চৰকাৰৰ বিভিন্ন আঁচনি ৰূপায়ণত সহযোগিতা কৰিবৰ বাবে আগবাঢ়ি আহিব পাৰে।

বিলখনত পাৰিপাৰ্শ্বিক পৰ্য্যটন উদ্যোগটোৰ পুনৰুদ্ধাৰৰ বাবে নিম্নলিখিত পৰামৰ্শ সমূহ আগবঢ়োৱা হৈছে –

১) বানপানীয়ে বিলখনলৈ প্ৰতিবছৰে পলস কঢ়িয়াই আনে । এই পলসে বিলখনৰ জলাশয় বাম কৰি আনিছে। গতিকে ডাঙৰী নদীৰ পৰা বাৰিষা বিলখনলৈ আগমন ঘটা পুৰণা ড্ৰেইনৰ মুখভাগ বান্ধৰ জৰিয়তে বন্ধ কৰি দিব লাগে।

২) বাঘজান- ৫ ত সংঘটিত ঘটনাৰ ফলত ৬ কিঃ মিঃ দূৰত্বলৈকে বাসিন্দা সকল ব্যাপক ভাৱে ক্ষতিগ্ৰস্ত হৈছে। গতিকে এই ক্ষতিগ্ৰস্ত অঞ্চলৰ অন্তৰ্গত গাঁও যেনে- বাঘজান, দীঘলটৰং, কচুমাৰি, নতুন ৰঙাগড়া, বালিজান,

মিলনপুৰ, গটং গাঁও, গটং ৩ নং ৱাথৈ, লিম্বুগুৰি দীপালাইন, লিম্বুগুৰি পুৰণা লাইন, ঢাকোৱাল, হাতীবাট, গৰিয়াটিং, ১ নং মতাপুং, ২ নং মতাপুং, ৰঙাগড়া ৱাটা হাবি, মেইন ডুবি আদিক চৰকাৰৰ ক্ষতিপূৰণ আঁচনিত অন্তৰ্ভুক্ত কৰিব লাগে। এই সকলোবোৰ গাঁৱৰ বাসিন্দা সকলৰ অংশগ্ৰহণ অবিহনে অঞ্চলটোত পাৰিপাৰ্শ্বিক পৰ্যটন উদ্যোগ সম্ভৱ নহয়।

৩) মাগুৰি-মতাপুং বিলৰ ঘাঁহনিডৰাত অঞ্চলটোৰ প্ৰায় ১৫০ টা পৰিয়ালে বহু বছৰ আগৰে পৰা খেতি- বাতি কৰি আহিছে। ইয়াৰ ফলত চহকী ঘাঁহনি সমূহ সংকুচিত হৈ আহিছে। সেয়েহে তেওঁলোকে যাতে ঘাঁহনি সমূহ সংৰক্ষণ কৰিবলৈ উৎসাহী হয়, তাৰ প্ৰতি লক্ষ্য ৰাখি তেওঁলোকক বিকল্প উপাৰ্জনৰ পথ বাচি লবৰ বাবে আৰ্থিক সাহায্য প্ৰদান কৰিব লাগে।

৪) মাগুৰি-মতাপুং বিলৰ চাপৰিত বানৰ সময়ত বন্যপ্ৰাণী সমূহৰ সুৰক্ষাৰ বাবে তিনিটা বৃহৎ হাইলেণ্ড্ নিৰ্মাণ কৰিব লাগে।

৫) মাগুৰি-মতাপুং বিলৰ আশে- পাষে থকা প্ৰতিটো বানাক্ৰান্ত পৰিয়ালক একোখনকৈ হাত নাও আৰু প্ৰতিজন ব্যক্তিক একোটাকৈ লাইফ জেকেট প্ৰদান কৰিব লাগে।

৬) পৰ্যটকৰ সুবিধাৰ বাবে বিল খনত টয়লেট ব্লকসহ এক জিৰণি ঘৰ নিৰ্মাণ কৰিব লাগে।

৭) মাগুৰি-মতাপুং বিলৰ দাঁতি কাষৰীয়া গাঁও সমূহত সকলো আগ্ৰহী থলুৱা লোকক পৰ্যটকৰ বাবে হোম ষ্টে' নিৰ্মাণ কৰিবলৈ চৰকাৰে ৮০ % ৰাজসাহায্যৰে সৈতে ঋণ প্ৰদান কৰিব লাগে।

৮) পৰ্য্যাপ্ত হাত নাও, বাইন'কুলাৰ, গাইড বুক আদি প্ৰদানৰ লগতে পৰ্যটন কৰ্মীসকলৰ বাবে উপযুক্ত প্ৰশিক্ষণৰ ব্যৱস্থা কৰিব লাগে।

৯) হস্ত তাঁত কেন্দ্ৰ, জৈৱিক চাহ প্ৰস্তুত কেন্দ্ৰ আৰু অন্যান্য থলুৱা কুটিৰ শিল্প উদ্যোগ প্ৰতিষ্ঠাৰ বাবে সকলো আগ্ৰহী থলুৱা লোকক চৰকাৰে ৮০% ৰাজসাহায্যৰে সৈতে ঋণ প্ৰদান কৰিব লাগে।

১০) অঞ্চলটোৰ পৰম্পৰাগত সাংস্কৃতিক কেন্দ্ৰ আৰু অনুষ্ঠান সমূহ আকৰ্ষণীয় আৰু শক্তিশালী কৰি তুলিবলৈ আৰ্থিক অনুদান প্ৰদান কৰিব লাগে।

১১) Gene Life Banking ৰ বাবে ৰাজহুৱা একুৱেৰিয়াম নিৰ্মাণ কৰিব লাগে।

১২) ATM স্থাপন ।

১৩)এই আঁচনিসমূহ কাৰ্যকৰণৰ ক্ষেত্ৰত যাতে স্থানীয় পৰ্যটন কৰ্মী সকলে আগস্থান পায়, তাক নিশ্চিত কৰাৰ প্ৰয়োজন।

ধন্যবাদ সহকাৰে–

বিনীত –

ক্ৰমিক নং	নাম	পৰিচয়	স্বাক্ষৰ
০১	শ্ৰী নিৰঞ্জন গোহাঁই ফোন - 9954791573	সম্পাদক, ৰেড ইকো টুৰিজম	[illegible] ১৫-৭-২০
০২	শ্ৰী বিমল হাজৰিকা	সম্পাদক নদীৰ ৰাফটিং ঘোৰা.	[illegible]

ক্ৰমিক নং	নাম	পৰিচয়	স্বাক্ষৰ
০৩/	জয়নাল আবেদিন	বৰশ্ৰী ইকো কেম্প	[signature]
০৪/	শ্ৰীমহেশ হাতীবৰুৱা	পৰ্যটক [illegible] জেলাস্তৰীয় স্থানীয় বাসিন্দা	[signature]
০৫/	শ্ৰী জয়ন্ত দত্ত	কলীয়া [illegible] স্বত্বাধিকাৰী	[signature]
০৬/	শ্ৰী হীতেন সেনাপতি	সভাপতি [illegible] E.D.C	হীতেন সেনাপতি
০৭/	শ্ৰী পলাশ ফুকন	টুৰিষ্ট গাইড	palash phukan
০৮/	শ্ৰী ভদ্ৰ হাতীবৰুৱা	পৰ্যটক নাওবাহক	শ্ৰী ভ হাতীবৰুৱা
০৯/	শ্ৰী দেৱকান্ত শইকীয়া	স্থানীয় টুৰিষ্ট গাইড	শ্ৰী দেৱকান্ত শইকীয়া
১০/	ড° দেৱৰ্ষি শইকীয়া	~~[illegible]~~/ আঞ্চলিক কেন্দ্ৰ	দেৱৰ্ষি শইকীয়া
১১.	[illegible]		

Moran Student Union etc. 28/6/2020

(1) in favour of public
(2) Monapung Maguri Beel } should not
DSNP } be mixed

(3) 16 nos of beels put together
30000 families survive on the
fishing from dumduma bridge to
guijan.
Their Livelihood is danger
now.

(4) 2005 Since OIL India started to
mine, there was a movement and
many people were sent to jail.

(5) Pipeline at Baghjan was also
protested. [on diamoli beel]
near Maguri. 6 m below
ground drilling and putting pipeline
Pipeline not below 6 m according
to the people

(6) 14 sept. 2019 the pipeline leaked.
Some families were given Rs 3000
compensation.

(2)

Tender floated to clean the beel but no outcome. The spillage was not cleaned properly.

[Barekuri southern side or from Makum ; mining should be done]

7. 10% CSR in Tinsukia district against 2% existing

8. ↳ New technology to be used for mining.

←——→

9. Baghjangaon Kaliapanighat, Natungaon, Dighaltarang villages — all to be
Cat.1 → Baghjan / Kaliapani
Cat.2 → Other areas

10. Housing for those whose houses burnt, along with land.

11. Land should not belong to oil.

Moran (3)

1. No fish farming possible coz. fishing would be impacted.
2. "Tourism" heavily impacted. 500 pp of boats; and the site in danger.
3. Enviental clearances etc need to examined.

(4) AATSA

(i) Rs. 30,000/- every one family in the camp (All in camp)

(ii) The pipeline goes near many houses close by. Insurance to be provided.

(iii) Variable insurance 0-5 km → 200m fully compensated.

(iv) Add crage compensation [for tea gardens]

(v) → Why no action was taken in 10 km : Activity is going on at 0 km

(vi) Several pipeline leaks happen in the district. Damage to agriculture and water body keeps happening.

(vii) Solid waste not disposed scientifically

(viii) water injection not done properly.

(1) Oil production locations should be walled, with plantations & security. Roads are open and no flow. There needs strong measures for protection. (5)

(2) EIA is not satisfactory. Local people always have been opposing. Its manipulated.

(3) One more hearing is required to be taken. after the fire is extinguished.

(4) All cooperation from the Unions, but only if the works are done in order.

(6)

(1) Horizontal drilling
(2) No damage to be done by DSMP & MMB
(3) The S.O.P. for all accidents in terms of damages should be developed even for smaller accidents which keep happening.

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(1) Dikom fire 2005. OIL opened a disaster wing. But again fire took place in 2020.
(2) Pipeline work Baghjan to [under progress. Should be stopped.
(3) Fully support the demand of BGMJS,
(4) Hemguri TE, Digultumang, Sharipur Drilling work is going. Khordanpur.

(7) AJYCP

(1) Not against OIL, but no trouble to people

(2) Nagira ONGC Blow out →

(3) No drilling in dense population places.

প্ৰতি

মাননীয়, অতিৰিক্ত মুখ্য বনসংৰক্ষক তথা একনীয়া অৰ্থি
নিষ্কাশন সমিতি;

তাং ২৮/৬/২০২০

মহাশয়,

অতিশয় ভয় বিনীত নিবেদন এইযে যে যোৱা ইং ২৭/৬/২০২০ তাৰিখে O.I.L.ৰ ৫নং B.G.R মাধ্যত প্ৰচণ্ড শব্দ কৰি বিস্ফোৰণ ঘটে আৰু তেল নিৰ্গত আৰু যোৱা ইং ৯/৬/২০২০ তাৰিখে ভয়ংকৰ জুইৰ সৃষ্টি হয়, ফলস্বৰূপে পূৰ্বৰ দহগুণ বৃদ্ধিৰ যাৰত গুজৰি থকা কাৰণে ফলত মই নিশা শুব নোৱাৰো। ফলস্বৰূপে মাজে মাজে তীব্ৰ মূৰৰ বিষ আৰু মানসিক যন্ত্ৰণাত মোৰ জীৱন প্ৰণালী বাধাগ্ৰস্ত হৈছে।

অন্যহাতে খাদ্যৰ পৰা নিৰ্গত হোৱা গেছে প্ৰাকৃতিক পৰিবেশ দূষিত কৰাৰ ফলত অন্য বহুত বোৰত প্ৰত্যক্ষ হোৱা প্ৰকৃতিৰ শোভাবৰ্দ্ধনকাৰী নানা ৰঙী চিত পখিলাবোৰ অদৃশ্য হৈ গৈছে। এই অঞ্চলত বিচৰণ কৰি থকা এক জাতৰ ধনেশ পক্ষীবোৰ বৰ্তমান নিৰুদ্দিষ্ট। ইয়াৰোপৰি খাদ্যৰ জুইৰ পোহৰত দিনে ৰাতি একাকাৰ হৈ থকাৰ ফলত মাগুৰি বিলৰ পৰা মোহনীয়া কামচৰাই বোৰ নোহোৱা হৈ গৈছে। ইহঁত ভয়ংকৰ পৰিস্থিতিৰ [illegible]

অতএব দয়ালু মহোদয়ে দয়া কৰি অইল ইণ্ডিয়াৰ ভুল কাৰ্য্য ক্ৰমণিকাৰ বাবে আমাকলোকৰ যি মানসিক সমস্যা সৃষ্টি কৰিলে আৰু বায়ু অতুল প্ৰদূষণ কৰি জীৱকুলৰ যি ক্ষতি কৰিলে তাৰ উচিত ব্যৱস্থা গ্ৰহণ কৰিব যেন।

ইতি বিনীত
শ্ৰী [illegible]
[illegible]

তিনিচুকীয়া আৱৰ্ত ভবনত অনুষ্ঠিত ৰাজহুৱা শুনানিৰ কার্য্যবিৱৰণ

আজি ইংৰাজী ২৬-৬-২০২০ তাৰিখে তিনিচুকীয়া আৱৰ্ত ভবনত তিনিচুকীয়া বন সংমণ্ডলৰ অধীনত এখনি ৰাজহুৱা শুনানি অনুষ্ঠান কৰা হয়। এই শুনানি অনুষ্ঠানৰ প্রতিনিধিত্ব কৰে মাননীয় অতিৰিক্ত প্রধান মূখ্য বন সংৰক্ষক, এম. কে. যাদৱ, আই.এফ. এচ মহোদয়ে ।

২৬-৬-২০২০ তাৰিখে অনুষ্ঠানত উপস্থিত থাকে--

1.Babuti Handik (Society for wildlife conservation) M.No. 8011654975
2. Raju Raj Sonowal (member of Society for wildlife conservation) M.No. 8473868001.
3. Bikas Jyoti Saikia (Reporter) M.No. 8638591401
4. Mohesh Borhohain (member of Society for wildlife conservation) M.No. 8638787455.
5. Mridusmita Dutta (Research Scholar) Tezpur University .
6. Kasmita Dutta (Practitioner, Rajib Gandhi University)

এই সকলে অভিযোগ কৰে যে ৰাজহুৱা শুনানিত কিয় মানুহ কম আৰু ৰাজহুৱা শুনানি কিয় ৰাজহুৱা ঠাইত নাপাতি ঘটনাস্থলীৰ পৰা দূৰত অনুষ্ঠিত কৰা হ'ল । তেওলোকে এখনি ১০ টা প্রশ্ন অভিযোগ নামা দাখিল কৰে ।অতিৰিক্ত প্রধান মূখ্য বন সংৰক্ষক, এম. কে. যাদৱ, আই.এফ. এচ মহোদয়ৰ মতে প্রতিটো sector ত Hydroponic Systems ৰ সহায়ত Survey কৰি আছে। ইয়াৰ উপৰিও বিভিন্ন কমিটি গঠন কৰি দিয়ে যিবোৰে অনুসন্ধান চলাই আছে। আৰু expert সকলে সেইবোৰ পর্য্যবেশন কৰি আছে।ইয়াৰ উপৰিও । অতিৰিক্তপ্রধান মূখ্য বন সংৰক্ষক মহোদয়ে তেওলোকক অনুৰুধ কৰে যে যদি তেওলোকৰ হাতত Wildlife, Biodiversity, Ecology ৰ কি পৰিমানৰ অনিষ্ট হৈছে বুলি কোনো তথ্য থাকে তেন্তে Department ক জনাব পা ৰে। আৰু অতিৰিক্ত প্রধান মূখ্য বন সংৰক্ষক মহোদয়ে অবগত কৰে যে নানা University ৰ পৰা Expert আহি পর্য্যবেশন কৰি আছে। BNHS ৰ মানুহ আহি চৰাই ৰ Rapid test কাম কৰি শেষ কৰিছে আৰু কিছুদিনৰ পিছত Result পাব বুলি কৈছে। বৰাজান ভেৰজান ৰ ওপৰত কিবা প্রভাব পৰিছে বুলি তেওলোকৰ হাতত কোনো তথ্য থাকে তেন্তে Department ক জনাবলৈ অনুৰুধ কৰে।

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Reporter, B. Saikia দেৱে কয় যে OIL Rig ৰ প্ৰভাব পৰাত দাতি কাষৰিয়া অঞ্চলৰ হলৌ বান্দৰবোৰে খাবলৈ বিছৰা নাই আৰু জুইৰ শিখাৰ ওপৰত পৰি বগলীৰ মত্যু হৈছে বুলি কয়। এই একে কথা দীঘলসাকো বাৰেকুৰি গাওঁৰ পৰিৱেশ কর্মী দিপ্পৰ চুতীয়াদেৱেও কয়।

মাগুৰি মতাপুং অঞ্চলৰ OIL Rig ৰ ঘটনাটো সংগঠিত হোৱাৰ আগত পৰিভ্রমী পক্ষী দেখা গৈছিল যদিও বৰ্তমান কোনো পক্ষী দেখা পোৱা নাই। অতিৰিক্ত প্ৰধান মূখ্য বন সংৰক্ষক মহোদয়ে OIL ক Scientific cleaning কৰিবলৈ আহ্বান জনাব বুলি আস্বাস দিয়ে।

Reporter, B. Saikia দেৱে প্ৰশ্ন কৰে যে ১৬ টা খাদ বহুৱাব নেকি তেতিয়া অতিৰিক্ত প্ৰধান মূখ্য বন সংৰক্ষক মহোদয়ে কয় যে ভিতৰত খাদ বহুৱাৰ কোনো নিয়ম নাই।তেওলোকে ন মতাপুং, বাঘজান, নিমুগুৰি, নতুন ৰঙাগড়া, দীঘলসাকো, হাতীবাগ ইত্যাদি ঠাইত কম্পন হোৱা বুলি কয় তেতিয়া অতিৰিক্ত প্ৰধান মূখ্য বন সংৰক্ষক মহোদয়ে **P.W.D** ক মাটিৰ পর্য্যবেশন কৰিবলৈ দিব বুলি আস্বাস দিয়ে।

তেওলোকে অভিযোগ কৰিছিল যে গেছ আৰু তেল নির্গমনৰ ফলত দাতি কাষৰীয়া মানুহবোৰৰ স্যাস্থ্যৰ অৱনতি হবলৈ ধৰিছে আৰু এটা experiance ৰ বিষয়ে উল্লেখ কৰি কয় যে খাদৰ পৰা ৮০০ কি:মি: নিলগতো চকু মেলিব পৰা নাছিল, তেলেৰে কাপোৰ তিতি গৈছিল, গাড়ীৰ গ্লাচ ঢা কি দিছিল।

অতিৰিক্ত প্ৰধান মূখ্য বন সংৰক্ষক মহোদয়ে কয় যে তেওঁ নিজে অনুসন্ধান কৰিবলৈ যায় আৰু অনুসন্ধানত দ্রুনৰো ব্যৱহাৰ কৰা হয়।

তেওঁলোকে অতিৰিক্ত প্ৰধান মূখ্য বন সংৰক্ষক মহোদয়ক অবগত কৰে যে ২০১৯ চনৰ মার্চ মাহত সেই একে ঠাইতে গেছ নির্গত হৈছিল, গাওঁবাসীয়ে ভাৰতীয় তেল নিগম কোম্পানিক জনাইছিল যদিও ভাৰতীয় তেল নিগমে কোনো গুৰুত্ব নিদিয়ে। ভাৰতীয় তেল নিগমে survey কৰিছে নেকি বুলি প্রশ্ন কৰাত অতিৰিক্ত প্ৰধান মূখ্য বন সংৰক্ষক মহোদয়ে উত্তৰ দিয়ে যে ভাৰতীয় তেল নিগমে নিজা ৰবীয়াকৈ অনুসন্ধান কৰিবলৈ অনুমতি বিছাৰে আৰু কৰি আছে।

২৪ ঘন্টাই খাদৰ পৰা শব্দ নির্গত হৈ থকাত ৰাষ্টীয় উদ্যায়নৰ ওপৰত কেনে প্রভাৱ পৰে বুলি তেওঁলোকে প্রশ্ন কৰে .

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মৃদুস্মিতা দত্তই Sound, Water polution ৰ বিষয়ে জানিব বিছাৰে আৰু প্ৰশ্ন কৰে যে এই বিষয়ে OIL এ কি ব্যৱস্হা গ্ৰহন কৰিছে ?

অতিৰিক্ত প্ৰধান মূখ্য বন সংৰক্ষক মহোদয়ে ইয়াৰ উত্তৰ দিব নোৱাৰে বুলি কয় যদিও উল্লেখ কৰে যে Compensation Process চলি ছে NGT ৰ অধীনত ।আৰু কয় যে শব্দ প্ৰদূষনৰ প্ৰভাৱৰ ওপৰত যদি কোনোয়ে research কৰিছে তেন্তে Department ক data দিবলৈ অনুৰুধ কৰে।

তেওলোকে অবগত কৰে যে ৰঙাগড়া চাহ বাগিছাৰ চাহৰ অহঁতা গেছ নিৰ্গমনৰ প্ৰভাৱত একেবাৰে বেয়া হৈছে।

গতিকে শেষত সকলোৱে ভালকৈ পৰিক্ষা নিৰীক্ষা কৰি এটা ভাল পদক্ষেপত ওপনিত হবলৈ অনুৰুধ কৰে আৰু লক্ষীপথাৰত OIL ক নিৰীক্ষন কৰি এটা বিটং তথ্য দিবলৈ কোৱা হয়।

বাঘজানৰ ৰাইজ তাৰিখ : ২৬-৬-২০২০

বাঘজানৰ ৰাইজে বিভিন্ন অভিযোগ কৰি কয় যে বাঘজান, দীঘলতৰং গাওঁকেইখন জৈৱ-বৈচিত্রপূণ কিন্তু আজি পুনৰ তেল বেছিকৈ নিৰ্গত হোৱাৰ ফলত পানীত মিহলি হৈ বহু মাছৰ মৃত্যু হয়। প্ৰধান মূখ্য বন সংৰক্ষক মহোদয়ে কয় যে তেওঁ OIL ক প্ৰত্র প্রেৰন কৰে যে যিখিনি তেল বিভিন্ন ঠাইত ডোঙা বান্ধি আছে সেইবোৰ তুলি নিয়ে যেন যাতে জীৱকোলৰ মৃত্যু নহয়। গাওঁবাসীয়ে অৱগত কৰে যে গেছ নিৰ্গমনৰ বাবে ধনেশ, টুকুৰা চৰাই ইত্যাদি লুপ্ত হৈছে। Vibetion ৰ বাবে গছ ওঘালি পৰিছে, গছৰ পাত হৰিছে, চৰাইৰ প্ৰজনন কমি গৈছে, মানুহৰ ধৈর্য্য শক্তি কমি গৈছে, মূৰ কামুৰনি আৰম্ভ হৈছে ।

গাওঁবাসীয়ে কয় যে মতাপুং Beel ধ্বংসৰ গ্রাসত, বনৰীয়া ম'হে প্রদূষিত পানী খাইছে তেতিয়া প্রধান মূখ্য বন সংৰক্ষক মহোদয়ে কয় যে তেওঁ Veteniary Department লগত আলোচনা কৰিছে আৰু তথ্য দাখিল কৰিবলৈ কোৱা হয়।

চাহ উৎপাদনৰত কি দৰে প্রভাৱ পৰিছে তাৰ বিষয়েও আলোচনা কৰে এই প্রভাৱ দীর্ঘম্যাদী হব শংকা প্রকাশ কৰে ।

বাঘজান শিবিৰত ২৮৪ জন শিশু, ২০ গৰাকী গর্ভৱতী মহিলা আছে যি গেছ নিৰ্গমনৰ ফলত বেয়া কৈ প্রভাবিত হৈছে আৰু তেওঁলোকৰ গর্ভৰ শিশু জন্মৰ পিছত হয়তো শাৰিৰীক আৰু মানসিক ভাবে বিকাৰগ্রস্ত হব পাৰে বুলিও শংকা প্রকাশ কৰে।

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তেওঁলোকৰ উশাহ লোৱাত কষ্ট অনুভৱ হৈছে বুলি অভিযোগ কৰে। আনহাতে কম্পনৰ ফলত গৰাখহনীয়া বেছি হোৱাৰ সম্ভাবনা আছে বুলি অনুমান কৰিছে গাওঁবাসীয়ে। আৰু Tube well, motor ৰ পনীত আইৱন আহিব ধৰিছে। গতিকে এই প্ৰভাৱ দীৰ্ঘম্যাদি হব শংকা প্ৰকাশ কৰে। ১৯৯৯ চনত বাঘজানত Seismic survey হৈছিল বুলি অৱগত কৰে।

বাঘজাৰত গাওঁবাসীয়ে মাছ বিক্ৰী জীবিকাৰ লগত জড়িত গতিকে তেওঁলোক এই বিষয়ে চিন্তিত বুলি কোৱাত অতিৰিক্ত মূখ্য বন সংৰক্ষক মহোদয়ে আশ্বাস দিয়ে যে তেওঁ কিছু ঠাইত মাছ মাৰি চাব দিছে যে কি পৰিমাণৰ মাছ পোৱা যাব নে মাছ বিলুপ্ত হৈ গল।

বাঘজাৰত গাওঁবাসীয়ে বিভিন্ন Loan লোৱা আছিল এতিয়া জীবিকাৰ পথ নোহোৱাত ৰাইজ চিন্তিত হৈছে এই ক্ষেত্ৰত অতিৰিক্ত মূখ্য বন সংৰক্ষক মহোদয়ে

জীৱন বীমাৰ প্ৰয়োজনৰ বিষয়ে কয় আৰু Assessment ত ৰাইজক সহায় কৰিবলৈ আহ্বান জনায়।

২৭-০৬-২০২০

ৰঞ্জন কুমাৰ দাস, (Associate Profesore , Tinsukia College) বাঘজানৰ তেল নিগমন সন্দভত বাঘজান যাওতে ভেৰজানতও প্ৰৱেশ কৰিছিল আৰু ভেৰজান অঞ্চলটো তেল নিগত খাদটোৰ পৰা ১০ কি:মি: নিলগত যদিও শব্দবোৰ স্পষ্ট শুনিবলৈ পাইছিল।গতিকে ইয়াৰ প্ৰভাৱ কি হব বুলি অতিৰিক্ত মূখ্য বন সংৰক্ষক মহোদক প্ৰশ্ন কৰে। তেওঁ মাগুৰি মতাপুং বিল পৰিদশন কৰোতে মাছবোৰ মৃত্যু হোৱা প্ৰত্যক্ষ কৰিছিল বুলি অতিৰিক্ত মূখ্য বন সংৰক্ষক মহোদয়েক অবগত কৰে। King quail এবিধ বিৰল প্ৰজাতিৰ চৰাই দেখিবলৈ পাইছিল যিটো তেলেৰে পূৰ্ন হৈ মৃত্যু হৈছিল। এবিধ বিৰল প্ৰজাতিৰ দেখিবলৈ পাইছিল যিটো তেলেৰে পূৰ্ণ হৈ মৃত্যু হৈছিল।তেওঁ কৈছিল যে ডিব্ৰু-ছৈখোৱা ৰাষ্ট্ৰীয় উদ্যানত বহুতো প্ৰকাৰৰ চৰাই পোৱা যায় তাৰে এবিধ হল Reed Warbler.

২৮-০৬-২০২০

ৰাজহুৱা শুনানিত উপস্থিত ব্যক্তিসকল -

1. Ashok Km. Lama (Secretary , Gurkha Student Union)
2. Surojit Moran (President, AJYCP)
3. Arun Jyoti Moran (President, All Moran Student Union)
4. Dharani Gohain (General Secretary , All Assam MATAK yuba Chatra Sanmilan)
5. Presh Guwala (President, ATTSA)

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6. Naba Moran (General Secretary , All Moran Student Union)
7. Samar Gohain (General Secretary , All Assam Student Union)
8. Sekhar Gurang (AAGSU,Tinsukia)
9. Binod Chetry (AAGSU,Tinsukia)
10. Anirudha Moran (Vice President, All Moran Student Union)
11. Patrika Limbu (Gurkha Student Union)
12. Ranadeep Duarah (Repoter, NEG News)
13. Abhinoy Tanti (President ATTSA)
14. Dilip Moran (Vice President, All Moran Student Union)
15. Munin Duarah (AGS, AMSU).
16. Debokanta Moran (Proser Sampadak, AMSU).
17. Hemo Boruah (AMSU).

বিভিন্ন সংগঠনৰ সভাপতি, সম্পাদক, সদস্য ইত্যাদি ৰাজহুৱা শুনানিত ওপস্থিত হৈ বাঘজানত ৰ তেল খাদত সংগঠিত ঘটনাটো সম্পর্কে আলোচনা কৰে।

মৰান ছাত্র সন্থাৰ সভাপতি অৰুণ জ্যোতি মৰানদেৱে কয় যে তেওঁলোকে ভাৰতীয় তেল নগমৰ বিৰুদ্ধে সদায়ে মাত মাতি আহিছে আৰু মাত মাতি যাব । তেওঁৰ মতে বাঘজান ডিব্রু-ছৈখোৱা ৰাষ্ট্রীয় উদ্যান আৰু মাগুৰি মতাপুং বিলৰ গাতে লাগি আছে গতিকে তাত ভাৰতীয় তেল নগমে খনন কার্য্য চলোৱাতো গ্রহন যোগ্য নহয়।তেওঁ কয় যে মাগুৰি মতাপুং বিলত ১৬ খন বিল আছে আৰু ইয়াৰ দাতিকাষৰীয়া মানুহখিনি প্রায় ৩০,০০০ মানুহ এই বিলৰ পৰাই মাছ মাৰি জীৱিকা নির্বাহ কৰে। ফলত তাত থকা বিভিন্ন সম্প্রদায়ৰ মানুহৰ জীৱিকা নির্বাহৰ পথ বন্ধ হৈ পৰিছে বুলি প্রতিক্রিয়া প্রকাশ কৰে বাঘজানৰ পৰা মাকুমলৈকে ভাৰতীয় তেল নগমৰ যিডাল পাইপলাইন গৈছে সেইডাল ডিয়াহমুলিৰ মাজেৰে পাৰ হৈ যায় সংগঠন বোৰে ইয়াৰো বিৰুধিতা কৰিছিল যদিও ভাৰতীয় তেল নিগমে কোনো গুৰুত্ব নিদিলে ফলত ২০১৯ চনৰ ১৪ ছেপ্তেম্বৰত ডিয়াহমুলি অঞ্চলত পাইপলাইন ফুটি বহু মাছৰ মৃত্যু হয় । তেতিয়া অইল কতৃপক্ষই সেই অঞ্চলৰ মানুহক ৩০০০ টকাকৈ ক্ষতিপূৰন দি পুনৰ পাইপলাইনৰ কাম চলাই যায়।সেই সময়তে ভাৰতীয় তেল নিগমে পাইপ ফুতি সিচৰিত হৈ থকা তেলবোৰ চফা কৰিবলৈ Tender মাৰিছিল যদিও ভালকৈ কাম নকৰিলে ফলত এতিয়াও তেল পোৱা যায় । তেওঁলোকে তিনিচুকীয়া জিলাক তেলৰ দ্বাৰা ক্ষতি হোৱা অঞ্চল বুলি নামাকৰণ কৰি ১০% কৈ ক্ষতিপূৰন দিব লাগে বুলি অতিৰিক্ত প্রধান মূখ্য বন সংৰক্ষক, এম. কে. যাদৱ, আই.এফ. এচ দেৱৰ যোগেদি কেন্দ্রীয় চৰকাৰক জনাবলৈ দাবী জনায়।

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গেছ, তেল নির্গমন আৰু কম্পনৰ ফলত বাঘজান কলীয়াপানী অঞ্চলৰ ক্ষতিগ্রস্ত হোৱা লোকসকলক ক্ষতিপূৰনৰ দাবী জনাই আৰু যিসকলৰ ঘৰ বাৰী জ্বলি গৈছিল তেওঁলোকক অন্য ঠাইত নতুনকৈ ঘৰ বনাই দিবলৈ দাবী জনায় কিন্তু অইল ইন্ডিয়াৰ কর্তৃপক্ষ সেই মাটিৰ মালিকীস্বত্ব হব নোৱাৰিব বুলি দাবী জনাই মাগুৰি মতাপুং বিলৰ ১৬ খন বিলৰ আশে পাশে থকা ক্ষতিগ্রস্ত হোৱা সকলোকে ক্ষতিপূৰন দিব লাগে আৰু ঘটনাস্থলীৰ পৰা ৫ কি: মি: আতৰলৈকে যিখিনি মানুহ আছিল তেওঁলোকৰ বীমা হব লাগে আৰু জৈৱবৈচিত্র্যৰ প্রতি ভাবুকি অহা কাম কৰিব নোৱাৰিব।

মৰান ছাত্র সন্থাৰ সাধাৰন সম্পাদক নৱ মৰান দেৱে কয় যে মাগুৰি মতাপুং বিলত ৫০০ প্রজাতিৰ চৰাই আহে যি চাবলৈ পয্যটক আহে আৰু তাৰ লগত জড়িত জীৱিকাৰ প্রতি ভাবুকি আহে। তেওঁলোকৰ মতে ভাৰতীয় তেল নিগমে খনন কৰি তেল আহৰণ কৰক কিন্তু উন্নত প্রযুক্তি বিদ্যা ব্যৱহাৰ কৰি কাৰো অনিষ্ট নকৰাকৈ কৰক তাত কোনো বিৰুধিতা নকৰে।তেওঁলোকৰ মতে খনন কার্য্যত যি অৱশিষ্ট ওলায় সেইবোৰকও ভাৰতীয় তেল নিগমে গুৰুত্ব নিদিয়ে। অসম চাহ জনগোষ্ঠীৰ সম্পাদক পৰেশ গোৱালা দেৱে দাবী উথাপন কৰে আশ্রয় শিবিৰত থকা সকলো লোকক এক কালীন সাহায্য প্রদান কৰে যেন। ইক ১০ কি: মি: ৰ ভিতৰত কোনো খনন কার্য্য চলাব নোৱাৰে কিন্তু ভাৰতীয় তেল নিগমে কেনেদৰে খনন কার্য্য চলাই আছে বুলি অভিযোগ কৰে। আৰু ইয়াকো কয় যে খনন কার্য্য চলি থকা চাৰিওফালে সুৰক্ষা জনিত গছ ৰুপন কৰিবলৈ আৰু বেৰৰ ব্যৱস্হা কৰিবলৈ দাবী জনাই।আনহাতে তেওলোকে কয় যে ধেলাঘাত, নিমুগুৰি,খাৰজানত বর্তমান খনন কায্য চলাবলৈ প্রক্রিয়া চলি আছে আৰু দীঘলটৰংত আধা হৈ আছে। তেওঁলোকে পুনৰ ৰাজহুৱা শুনানি পাতিবলৈ আহ্বান জনাই আলোচনা সামৰে।

২৯-০৬-২০২০

ৰাজহুৱা শুনানিত উপস্থিত ব্যক্তিসকল -

1. Bani kanta Doley (President, TMPK)
2. Ranuj Pait (President, TMPK Dodhia anchalik)
3. Jan Kr. Doley (Vice President, TMPK, Dodhia)
4. Raju Patir (Social Worker)

তেওলোকে কয় যে লাইকা দধিয়া অঞ্চলতও পানীত তেল মিহলি হোৱা প্রত্যক্ষ কৰিছিল যি পানী খাই বহুতো গৰু মহৰ মৃত্যু হয়।

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Missing Chatra Saulka 29/6/2020
4.00 PM

(1) Laika Dhadia :

Fishing

Banikanta Doley
All Mising Student Union
TMPK
9707406471

Date-26-6-2020

প্ৰশ্নাৱলী ঃ

১) Eco-Sensitive Zone-ৰ ভিতৰত Wild Life Protection Act-য়ে অইলৰ ৰিগ্ বহাব পৰাৰ অনুমতি প্ৰদান কৰিছেনে? আমি জনাত বাঘজানস্থিত ৰিগ Eco-Sensitive Zone-ৰ ভিতৰত পৰে।

২) যোৱা ২৭ মে'ৰপৰা ৯ জুন, ২০২০ পৰ্যন্ত কণ্ডেনছেট আৰু তেল নিৰ্গত হৈ থকাৰ সময়ছোৱাত বন বিভাগৰ তৰফৰপৰা বন্যপ্ৰাণীৰ সুৰক্ষাৰ ক্ষেত্ৰত কিধৰণৰ পদক্ষেপ গ্ৰহণ কৰা হ'ল?

৩) ২৭ মে', ২০২০-ত বাঘজানত সংঘটিত দুৰ্ঘটনাৰ ফলত অহৰহ নিৰ্গত হোৱা গেছ আৰু তেলৰ প্ৰকোপত জল-স্থল-বায়ু প্ৰদূষণে সমগ্ৰ অঞ্চলটো বিধ্বস্ত কৰি তোলাৰ পিছত আপোনালোকে ডিব্ৰু-ছৈখোৱাৰ বন ঘৰচীয়া ঘোঁৰা আৰু বনৰীয়া মহৰ সুৰক্ষাৰ ক্ষেত্ৰত কি কাৰ্যকৰী পদক্ষেপ হাতত লৈছিল।

৪) বনৰীয়া চৰাই-চিৰিকটিৰ লগতে বিভাৰ ডলফিন হিচাবে খ্যাত শিহু, মাছ-কাছ তথা অন্যান্য পশু-পক্ষীৰ ক্ষয়-ক্ষতি কিমান পৰিমাণৰ হৈছে তাৰ সঠিক তথ্য যোগান ধৰাৰ বাবে কিধৰণৰ পদক্ষেপ হাতত লোৱা হ'ল?

৫) গেছ নিৰ্গমণৰ দিনধৰি বাঘজানকে ধৰি দাঁতি-কাষৰীয়া অঞ্চলসমূহৰ কিমান পৰিমাণৰ জৈৱ-বৈচিত্ৰ্যৰ ক্ষতি হৈছে তাৰ তথ্য যোগান ধৰিব পাৰিবনে?

৬) ক্ষতিগ্ৰস্ত অঞ্চলসমূহ পুনৰ সঞ্জীৱিত হৈ উঠাৰ সম্ভাৱনা আছেনে? কিমান দিনৰ ভিতৰত পুনৰ সঞ্জীৱিত হৈ উঠিব তাৰ বৈজ্ঞানিক ব্যাখ্যা, তথ্য দাঙি ধৰিব পাৰিবনে?

৭) জলাশয়সমূহৰ লগতে খোৱা পানী, অক্সিজেনৰ পৰিমাণ, শব্দ প্ৰদূষণৰ ফলত বন্যপ্ৰাণীৰ ওপৰত পৰা বিৰূপ প্ৰভাৱ, তথা বিৰূপ প্ৰভাৱ কিমান দূৰলৈকে সম্প্ৰসাৰিত হৈছে তাৰ কিধৰণৰ তথ্য প্ৰদূষণ নিয়ন্ত্ৰণ পৰিষদৰ পৰা লোৱা হৈছে?

৮) আমি জানিবপৰা অনুসৰি ৰাষ্ট্ৰীয় উদ্যানৰ অভ্যন্তৰত অনাগত সময়ত ১৬ টাকৈ ৰিগ বহোৱাই তেল নিষ্কাষণ কৰাৰ যি যো-জা চলোৱা হৈছে সেই ক্ষেত্ৰত এগৰাকী আই এফ এছ বিষয়া হিচাবে আপোনাৰ সমৰ্থন থাকিবনে? যদি থাকিব তাৰ কাৰণ আৰু যদি নাথাকে তাৰ বিশ্লেষণ দাঙি ধৰিবনে?

৯) ৰাজ্যিক প্ৰদূষণ নিয়ন্ত্ৰণ পৰিষদে খাদ বন্ধ কৰিবলৈ অইলক জাননী জাৰি কৰাৰ দুদিন পিছতেই জাননী উঠাই লোৱাৰ কাৰণসমূহ কি কি?

১০) দুৰ্ঘটনা সংঘটিত হোৱা ঠাইত ৰাজহুৱা শুনানি অনুষ্ঠিত নকৰি খৰতকীয়াকৈ দূৰণিবটীয়া ঠাইত ৰাজহুৱা শুনানি অনুষ্ঠিত কৰাৰ কাৰণ কি? ৰাজহুৱা শুনানি অনুষ্ঠিতকৰণৰ বিষয়ে সংশ্লিষ্ট অঞ্চলৰ ৰাজহুৱা সংগঠন, ৰাইজক অৱগত কৰা হৈছেনে?

(1) B. Handique (Member S.WL.C.) - 8011654975
(2) Rajur Raj Sonowal (member of S.WL.C) 8473868001
(3) Bikashjyoti Saikia (Reporter) 86385-91401.
(4) Mahesh Borgohain (member of S.WL.C) 8638787455

Society for Wild Life Conservation
HQ : Digboi
Ramnagar

① ESZ }

Sound Pollution :
Water pollution :

→ Compensate for these losses.

"Safety measures violations"

To,
The M.K. Yadav IFS
Additional chief forest conservator.
Date : 24.06.2020
Sub: Controll pollution.

Sir
With due respect and humble submission I beg to state you that during the last 29 days the people of Baghjan are facing a serious problem from the pollution of Baghjan BGR location no. 5. oil field. Animals, birds, trees and other living things are begun to die by the water, air, soil and sound pollution. Maguri-Motapung bill is totally destroyed. People are falling from various decease.

So, I request you to recover the biodiversity from this problems and investigate the whole matter.

Yours faithfully
Jatumoni Baruah
Baghjan.
24.06.2020

Dated :- 24/06/2020

To

M.K. Yadava, IFS.
Addl. PCCF (WL) and CWLW
One Man Enquiry Committee

Sub:- BLOW OUT IN GAS WELL OF OIL INDIA LTD. AT BAGHJAN AND ENVIROMENT IMPECT.

Dear Sir,

I like to inform you that the livelihood of us at Gujan 4 No ward Balijan Gaon badly affected by the massive explosion occurred at an oilfield in Baghjan, Tinsukia at an aire distance approx. 2 K.M. and connected with Maguri and Molapong Beel. Our tea garden of about 1 Hac and fishery of about 1 Hac. badly affected as a result there observed an oily layer was formed on the tea bushes leaf and Pond water. Due to which there is decreasing in tea leaf production and fish production. This has been hampering to our livelihood. There is also caused damage to our house. The tremors also caused damage like Crack in wall etc on our house. There is continuous tremors which seem to be very dangerous to our life

We are attaching here with a statement of losses to Rs 29,51,000.00 to in term of tea and fish production, wages and other expences and also attaching some photograph as evidence and ready reference.

P.T.O

Our humble request to Kindly look into the matter and take necessary action for losses caused due to the Blast of Gas well at Baghjan on 9th June 2020.

Your's faithfully.

Sri Boloram Paul
S/o Late Susil Paul
Gujan 4 NO. Ward
Baljan Gaon.
Tinsukia Assam
PH-9401293895

Enclo:- A summary sheet of losses due to Explosion, A list of evidence and affected houses and photography of Tea and etc

Cc. The Deputy Commissioner, Tinsukia Assam.
Cc. ADC. Revenue and Disaster Management TSK, Assam
Cc. The Circle officer (Revenue), Tinsukia, Assam
Cc. The Range forest officer, Gujan wild Life. Range, Assam

Losses Due to Explosion at Baghjan Oil field.

1 Fishery :-	Fishes and Expenditure in maintanance of 1 Hac.	3,50,000.00
	Post expenditure for 7 year @ 1,00,000 Per year	7,00,000.00
2. Tea Garden of 1 Hac.		
	Loss of green leaf for Incident of Baghjan 21000 kgs in 1 bigh @ 31 Per Kg	6,51,000.00
	Uprooting and Replanting of 1 Hac. @ Rs 1,00,000.00 Per bigha	7,00,000.00
	Soil Correction Measure @ Rs 50,000/- Per bigha	3,50,000.00
3. Repairing of House (approx.)		2,00,000.00
		2,95,1000.00

To

Dated :- 24/06/2020

MK Yadava, IFS,
Addl. PCCF (WL) and CWLW
One Man Enquiry committee

Sub :- BLOW OUT IN GAS WELL OF OIL INDIA Ltd. AT BAGHJAN AND ENVIROMENT IMPECT

Dear Sir,

I like to inform you that the livlihood of us at Gujan 4 NO. ward Balijan Gaon badly affected by the massive explosion occurred at an oil field in Baghjan. Tinsukia at an air distance appox. 2. KM. and connected with Naguri and Malapong Beel. Our Tea garden of about 6 bigha and fishery of about 10 bighas. badly affected as a result there observed an oily layer was formed on the tea bushes leaf and pond water. Due to which there is decreasing in tea leaf production and fish production. This has been hampering to our livelihood. There is also caused damage like crack in wall house due continuous tremos which seem to be very dangerous to oure life

We are allaching here with a statement of losses to Rs 3158000.00 to is term of tea and fish production wages and others expenes And also allaching some photograph as evidence and ready reference.

P.T.O

Our humble request to kindly look into the matter and take necessary action for losses caused due to the Blast of Gas well at Baghjan on 9th June 2020

Yours faithfully

Swapan Saha

Swapan Saha

S/o Late Gopal ch. Saha

Gujan 4 NO. Ward

Balijan Gaon

Tinsukia Assam

PH - 9954670898

Enclo:- A summary sheet of losses due to Explosion, A list of evidence and affected houses and photographs of Tea and etc

Cc. The Deputy Commissioner, Tinsukia Assam

Cc. ADC Revenue and Disaster Management, TSK. Assam

Cc. The Circle officer (Revenue) Tinsukia Assam

Cc. The Range Forest officer, Gujan Wild Life Range, Assam.

Losses Due to Explosion at Baghjan Oil field

1	Fishery :- Fishes and Expenditure in maintanance of 10 bigha.	5,00,000.00
	Post expenditure for 7 year @ 1,00,000 Per year	10.00 000 .00
2.	Tea Garden of 6. Bighas	
	Loss of green leaf for incident of Baghjan 18,000 kgs @ Rs 31 Per kg	5,58,000.00
	Uprooting and Replanting of 6 Bigha	
	(1) Rs 1,00,000 per Bigha	6,00,000.00
	Soil Correction Measure @ Rs 50,000/- Per bigha	3,00,000.00
3.	Repairing of House (appox.)	2,00000.00
		31,58000.00

To The M.K. Yadava IFS - Addl. PCCF

Sub:- Declare for Environmental Desaster of Baghjan - Kaliapani village.

Sir. I hereby inform you that from the day of the devastation at Baghjan BGR Location No. 5, the soil, water, air and sound - pollution are increased day by day. The water pollution destroyed many water animals of maguri bill ~~fake~~ like Tortoises, Dolphins, fishes etc. A single bird not to be seen there. The domestic animals of Baghjan Kaliapani area begun to die due to drinking the polluted water. People also face various Problems like headache, hearing problem, Skin Problem, heart problem etc. The Vibration and the sound are carring a dangerous problem for children and pregnent women. The children can't sleep due to high sound and vibration. The blood pratur

P.T.O.

of women goes to high. All the properties were destroyed by the fire. The remaing properties like green field, tea plants, betel nut plants and the other plants and big trees etc are also begun to destroy by the heat of the fire. Now it is going to be very dangerous for all living things.

So I request you to investigate the whole matter and allow the Envermantal Deseaster area of Baghyan-Kaliapani village.

Thank you

Sri Hemanta Moran
Advisor
Baghyan gaon Millonjyoti
yuva Sangha.
Date :- 24/6/2020

Ranjan Kumar Das (1)

Tinsukia College

① condensate

② oil leak flowing on water

③ 1 km direct impact.

④ Fire :- IBA Site

⑤ Bhujan / Bajan / Bodumani
WLS — 10 km default

⑤ Podumoni / Bherjan
↓
sound

"Chaliha Nagar, Tinsukia sound can be heard.

Tremendous impact : Blue Breasted Quail was recovered. It was covered with oil and chemicals.

" Ph.D. on DS grassland birds " →

[" Density, diversity and distribution of typical grassland birds in DSNP & BR"
→ Geography Dept. "

②

- "Checklist of Birds of Moitapung Mapuri Wetlands"
- "Checklist of Birds of DSNP" — with Vaibhab Mathur

"Indian ~~Wren~~ Reed Warbler" was spotted 26-06-~~2020~~ 2014. near the BGN well No 5.

— dasranjanTSK@gmail.com

প্ৰতি—

মাননীয়
শ্ৰীযুত অতিৰিক্ত প্ৰধান মুখ্য বন সংৰক্ষক
ওজনীয়া ক্ষতি নিৰূপণ সমিতি।

৩০ /৬/2020

বিষয় : বাঘজানস্থিত তৈল খাদত বিস্ফোৰণৰ হেতু আৰু পৰৱৰ্তী সময়ত অগ্নিকাণ্ডৰ ফলত হোৱা ক্ষতিৰ সন্দৰ্ভত।

মহোদয়,

সন্মান সহকাৰে আপোনালৈ জনাওঁ যে মই ডুমডুমা মহকুমাৰ অধীনৰ দীঘল সাকোঁ গাঁৱৰ বাসিন্দা। মোৰ গাওঁখন বাঘজানৰ ওচৰতে থকা হেতুকে বাঘজানস্থিত তেল খাদত বিস্ফোৰণৰ হেতু আৰু পৰৱৰ্তী সময়ত অগ্নিকাণ্ডৰ সৃষ্টি হোৱা দিনৰ পৰাই আমাৰ সকলোৰে জীৱনলৈ অতি দুৰ্যোগ আৰু লেতেৰা পানী নিগমন হৈ আছে আৰু বায়ুত প্ৰাকৃতিক গেছ মিহলি হৈ অহাৰ বাবে উশাহ-নিশাহত বহু কষ্ট হৈ পৰিছে।

গতিকে, দয়াকৰি মহোদয়ে উক্ত সমস্যাৰ বাবে সমাধানৰ দিহাৰ ব্যৱস্থা কৰি দিব যেন।

এয়ে আপোনাৰ ওচৰত জনাৰ লগনীয়া বিনম্ৰ মিনতি।

ইতি
বিনীত
আপোনাৰ বিশ্বাসী
শ্ৰীসুনিল গোহাঁই
দীঘল সাকোঁ গাওঁ
পো. অ. বৰগাওঁ (মাকুম)
পিন. 786170
মোবা. নং - 6002645091 (M)

PART 3

LETTERS ISSUED FROM ONE MAN ENQUIRY COMMITTEE TO VARIOUS GOVERNMENT DEPARTMENTS

सत्यमेव जयते

GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,

TINSUKIA, ASSAM,

PIN-786126.

Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/48 Dated:30/10/2020

From: Office of The One Man Enquiry Committee.

To: The Deputy Commissioner
Tinsukia

Sub: **Information needed regarding Baghjan BGN-05 incident.**

Sir,

As directed by the One Man Enquiry Committee headed by Shri M.K. Yadava, IFS, Addl. PCCF (WL) & CWLW, Assam; the undersigned request you to provide the following information for the purpose of assessment of the damages caused by the Baghjan BGN-05 blowout incident-

1. Details of the relief camps (No. of people relocated there, their age, gender, etc.)
2. Report of damage assessment as furnished by various departments viz. Departments of Veterinary, Sericulture, Agriculture, Health, Fishery, Tea Estates, Forest and any other if available.
3. Report of the committee formed by DC, Tinsukia to assess the damages caused by the Baghjan BGN-05 blowout incident.

Thanking you.

Divisional Forest Officer

Tinsukia Wildlife Division

Tinsukia

सत्यमेव जयते

GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/43 Dated:27/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

DFO Digboi Division, Digboi

Sub: Comment sought on replies furnished by M/s OIL to the One Man Inquiry Committee.

Ref:- (i) This office Letter No. **OMEC/MKY/BGN-5/2020/L01/6 dated 15.06.2020**
(ii) Reply of OIL vide Ref. No. S&E/E-121/820.

Sir,

With reference to the subject cited above, may please be informed that the Governor of Assam is pleased to constitute a One Man Inquiry Committee to be headed by Sri M.K. Yadava IFS, Addl. PCCF (WL) & CWLW, Assam to assess the damage to the following due to the incidents occurred in Baghjan Oil well in Tinsukia district-

1. To ascertain damage of wildlife.
2. To ascertain damage of biodiversity.
3. To ascertain damage to water and air quality.
4. To ascertain any other damage to forest and environment.

In this regard the undersigned had sought certain details from M/s OIL; the replies to which now have been furnished by them vide Letter Ref. No. S&E/E-121/820.

Copies of the letter of the aforesaid and reply furnished by M/s OIL are enclosed herewith.

Your comments are sought on the replies of M/s OIL and additionally you may furnish any other information relevant to the matter under examination including instances of any other lapses/ irregularities/omission/commission committed by OIL is contravention to any provisions of the laws of the land.

Your replies must reach within 2nd of July 2020 failing to which shall be assumed that you have nothing to say in this matter.

This communication is being sent through email as well for immediate response.

(M.K. Yadava, IFS)

सत्यमेव जयते

GOVERNMENT OF ASSAM
OFFICE OF THE ONE MAN ENQUIRY COMMITTEE
(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)
ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com
No. OMEC/MKY/BGN-5/2020/L01/47 Dated:27/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To
The Deputy Commissioner, Tinsukia

Sub: Public notice for wide circulation.

Please find herewith one public notice of One Man Enquiry Committee.

Please arrange for its wide circulation through newspapers, electronic media, social media, website, My Govt. Assam's Portal etc. Please also arrange for wide circulation in and around the affected villages.

(M.K. Yadava, IFS)

Copy to:
1. The DFO Wildlife Tinsukia Division, Tinsukia.

(M.K. Yadava, IFS)

सत्यमेव जयते

GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,

TINSUKIA, ASSAM,

PIN-786126.

Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/46 Dated:27/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

i. **The Adviser, IA II(I),**
Ministry of Environment and Forests, Climate Change,
Indira Paryavaran Bhavan, Jor Bagh, Lodhi Colony, New Delhi-110 003.

ii. **The Addl. Principal Chief Conservator of Forests (C),**
Ministry of Env. and Forest, Climate Change
Regional Office (North-East Zone, Shillong)
Law-U-Sib, Lumbatngen, Near MTC Workshop, Shillong-793006.

iii. **The Principal Secretary,**
Department of Environment & Forest, Govt. of Assam,
H-Block, 2nd Floor, Janata Bhawan,
Dispur, Guwahati-781006, Assam.

This is to inform you that the Govt. of Assam in the Environment and Forest Department, has issued a notification vide order No. **FRW.6/2020/1 Dt. 12th June, 2020**, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (WL) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil well in Tinsukia district covering the environment and ecology of the areas surrounding the blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. **419/2020 Dt. 11th June 2020** enclosed for ready reference).

In this regard, the Committee had asked M/s OIL vide letter No. **OMEC/MKY/BGN-5/2020/L01/26 Dt. 17/06/2020** to furnish the clearance of National Board of Wildlife and Environmental Clearance in respect of Baghjan Oil wells. In their reply M/s OIL have furnished the copies of the EC No. **J-11011/1255/2007 - IA II (I) Dt. 01/11/2011** of the MoEF & CC, Govt. of India, (I.A. Division), New Delhi-110 003 vide OIL letter No. **S&E/E-121/820 Dt. 20/06/2020** (copies enclosed).

Now in view of the above, your specific comments are sought on the last sentence of Clause 2 of the aforementioned EC which reads **"No national park/wildlife sanctuary/eco-sensitive area are located within 10 km"** in view of the fact of situation of Dibru-Saikhowa National Park and Borajan-Bherjan-Padumoni Wildlife Sanctuary near to the Baghjan drilling sites.

Your replies should reach within 6th July 2020 failing which it shall be assumed that you have nothing to say in this matter.

(M.K. Yadava, IFS)

Copy to:

1. The Director General of Forest, Special Secretary, Govt. of India, MoEF & CC, Indira Paryavaran Bhawan , Jor Bagh, Lodhi Colony, New Delhi-110 003.
2. The Inspector General of Forest (WL), Govt. of India, MoEF & CC, Indira Paryavaran Bhawan, Jor Bagh, Lodhi Colony, New Delhi-110 003.

(M.K. Yadava, IFS)

सत्यमेव जयते

GOVERNMENT OF ASSAM
OFFICE OF THE ONE MAN ENQUIRY COMMITTEE
(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)
ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com
No. OMEC/MKY/BGN-5/2020/L01/28-34 Dated:26/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

i. **The PCCF (WL)& CWLW, Assam.**
ii. **The Chairman, PCBA, Guwahati.**
iii. **The APCCF (UAZ), Guwahati.**
iv. **The CCF (Nodal), Guwahati.**
v. **The CF (EAC), Jorhat.**
vi. **The DFO Dibrugarh Division, Dibrugarh.**
vii. **The DFO Tinsukia Wildlife Division, Tinsukia.**

Sub: Comment sought on replies furnished by M/s OIL to the One Man Inquiry Committee.

Ref:- (i) This office Letter No. **OMEC/MKY/BGN-5/2020/L01/6 dated 15.06.2020**
(ii) Reply of OIL vide Ref. No. **S&E/E-121/820 Dated 20.06.2020**

Sir,

With reference to the subject cited above, may please be informed that the Governor of Assam is pleased to constitute a One Man Inquiry Committee to be headed by Sri M.K. Yadava IFS, Addl. PCCF (WL) & CWLW, Assam to assess the damage to the following due to the incidents occurred in Baghjan Oil well in Tinsukia district-

1. To ascertain damage of wildlife.
2. To ascertain damage of biodiversity.
3. To ascertain damage to water and air quality.
4. To ascertain any other damage to forest and environment.

In this regard the undersigned had sought certain details from M/s OIL; the replies to which now have been furnished by them vide Letter Ref. No. S&E/E-121/820.

Copies of the letter of the aforesaid and reply furnished by M/s OIL are enclosed herewith.

Your comments are sought on the replies of M/s OIL and additionally you may furnish any other information relevant to the matter under examination including instances of any other lapses/ irregularities/omission/commission committed by OIL is contravention to any provisions of the laws of the land.

Your replies must reach within 2nd of July 2020 failing to which shall be assumed that you have nothing to say in this matter.

This communication is being sent through email as well for immediate response.

(M.K. Yadava, IFS)

सत्यमेव जयते

GOVERNMENT OF ASSAM
OFFICE OF THE ONE MAN ENQUIRY COMMITTEE
(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)
ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com
No. OMEC/MKY/BGN-5/2020/L01/39 Dated:26/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To:

The Member Secretary,
Assam State Biodiversity Board
Aranya Bhawan, Panjabari,
Guwahati-781037

Sub: Regarding information sought on the Assam State Biodiversity Board in relation to the Baghjan Oil well blowout in Tinsukia district.

Ref. – Office letter no. **OMEC/MKY/BGN-5/2020/L01/2020 dated 15.06.2020.**

The undersigned is the receipt of information submitted by you. In this regard, the following may be noted-

I. The area near the blow out at Baghjan falls largely under the Hapjan Development Block and partly Guijan Development Block. While the PBR of the Hapjan BMC has been received, that of Guijan BMC has not been received. The same may be sent, if available.

II. The contact details of these two BMCs may be made available and the committee members may be directed to assess, if not assessed already, the damages to the biodiversity as per the PBR. Any expenditure in this regard may be incurred from the budget of Assam State Biodiversity Board.

This may be treated as urgent. Response from the local BMCs is expected by 2nd July 2020 failing to which shall be assumed as you have nothing to say in this matter.

(M.K. Yadava, IFS)

सत्यमेव जयते

GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,

TINSUKIA, ASSAM,

PIN-786126.

Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/1 Dated: 15/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The Deputy Commissioner,
Tinsukia.

Sub:- **Public notice for wide publication.**

Please find herewith two public notices of One Man Enquiry Committee.

Please arrange for its wide publishing through news papers, electronics media, social media, website, My Govt. Assam's portal etc. Please also arrange for wide circulation in an around the affected villages.

Thanking you.

(MK Yadava, IFS)

सत्यमेव जयते

GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,

TINSUKIA, ASSAM,

PIN-786126.

Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/2 Dated: 15/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The Joint Director,
Health Service, Tinsukia

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

In this regard, the Committee has decided to study the areas of Dibru Saikhowa National Park, Maguri Motapung Beel, Baghjan and other surrounding areas bounded by the rectangle with Top Left Corner being Longitude 95^0 5' 0" E Latitude 27^0 50' 0" N and Bottom Right Corner being 95^0 40' 0" E Latitude 27^0 35' 0" N. The OIL Well No. BGN-5 at Baghjan is having GPS location at Longitude 95^0 22' 51.066" E Latitude 27^0 35' 46.566" N as per the Eco-sensitive Zone notification of the Dibru Saikhowa National Park vide No. SO.460(E) Dt. 28th January, 2020 of the Ministry of Environment, Forests & Climate Change, New Delhi-110 003. The event phases are divided as of now into three time periods, namely 1. Prior to 10.30 AM of 27th May, 2020, 2. between 10.30 Am of 27th May,

2020 to 1.30 PM of 9th June, 2020 and 3. After 1.30 PM of 9th June, 2020 till date. In order to give a better assessment, all incidents preferably should be reported citing their radial distances from the blast site, even if approximately. If there are reports beyond the bounding rectangle, those may also be submitted to the Committee by citing approximate distances from the blast site.

The Committee now seeks, pertaining to your Department/ Originations, the following:

1. Information/ records/ study report/ incidences of damages/ research work/ baseline data/ maps/ for the period prior to the occurrence of the incident of Blow Out.
2. Sampling studies, survey estimates and or actual case studies carried out/ recorded after the period of the Blow Out incident.
3. Special mentions: Impact of blowout on health of persons in the vicinity of the blowout, baseline data.

You may submit the data/information available with your organization/office for the above three periods, so as to enable the Committee to draw near accurate assessment of baselines and damage data on the ecology, environment, biodiversity, wildlife and environment in general due to the impact of the Blow out and the subsequent fire incident.

You may send the information available with you in soft copy format by email to onemancommitteemky@gmail.com or in hard copy format at Room No. 8, Circuit House, Tinsukia, from 11.00 AM to 4.30 PM on all days till 24th of June, 2020. May please note that if no information is received from your end within the stipulated time, it shall be assumed that you have nothing to say in this matter. May also please note that the Committee shall bear no expenditure of any surveys/data collection or photocopying costs etc. that you might incur in submitting the information to the Committee.

This may be treated as MOST URGENT.

(MK Yadava, IFS)

Copy to the Deputy Commissioner, Tinsukia, Assam for information.

(MK Yadava, IFS)

सत्यमेव जयते

GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/7 Dated: 15/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The Member Secretary,
District Disaster Management Authority,
Tinsukia

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

In this regard, the Committee has decided to study the areas of Dibru Saikhowa National Park, Maguri Motapung Beel, Baghjan and other surrounding areas bounded by the rectangle with Top Left Corner being Longitude 95^0 5' 0" E Latitude 27^0 50' 0" N and Bottom Right Corner being 95^0 40' 0" E Latitude 27^0 35' 0" N. The OIL Well No. BGN-5 at Baghjan is having GPS location at Longitude 95^0 22' 51.066" E Latitude 27^0 35' 46.566" N as per the Eco-sensitive Zone notification of the Dibru Saikhowa National Park vide No. SO.460(E) Dt. 28th January, 2020 of the Ministry of Environment, Forests & Climate Change, New Delhi-110 003. The event phases are divided as of now into three time periods, namely 1. Prior to 10.30 AM of 27th May, 2020, 2. between 10.30 Am of 27th May,

2020 to 1.30 PM of 9th June, 2020 and 3. After 1.30 PM of 9th June, 2020 till date. In order to give a better assessment, all incidents preferably should be reported citing their radial distances from the blast site, even if approximately. If there are reports beyond the bounding rectangle, those may also be submitted to the Committee by citing approximate distances from the blast site.

The Committee now seeks, pertaining to your Department/ Originations, the following:

1. Information/ records/ study report/ incidences of damages/ research work/ baseline data/ maps/ for the period prior to the occurrence of the incident of Blow Out.
2. Sampling studies, survey estimates and or actual case studies carried out/ recorded after the period of the Blow Out incident.
3. Special mentions:
   i. Impact assessment of physical damage and its geographic spread.
   ii. Assessment of trauma and stress levels of the people in the surrounding areas.

You may submit the data/information available with your organization/office for the above three periods, so as to enable the Committee to draw near accurate assessment of baselines and damage data on the ecology, environment, biodiversity, wildlife and environment in general due to the impact of the Blow out and the subsequent fire incident.

You may send the information available with you in soft copy format by email to onemancommitteemky@gmail.com or in hard copy format at Room No. 8, Circuit House, Tinsukia, from 11.00 AM to 4.30 PM on all days till 24th of June, 2020. May please note that if no information is received from your end within the stipulated time, it shall be assumed that you have nothing to say in this matter. May also please note that the Committee shall bear no expenditure of any surveys/data collection or photocopying costs etc. that you might incur in submitting the information to the Committee.

This may be treated as MOST URGENT.

(MK Yadava, IFS)

Copy to the Deputy Commissioner, Tinsukia, Assam for information.

(MK Yadava, IFS)

सत्यमेव जयते

GOVERNMENT OF ASSAM
OFFICE OF THE ONE MAN ENQUIRY COMMITTEE
(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)
ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com
No. OMEC/MKY/BGN-5/2020/L01/ 8 Dated: 15/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The G. P. Secretary,
Baghjan G.P.

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

In this regard, the Committee has decided to study the areas of Dibru Saikhowa National Park, Maguri Motapung Beel, Baghjan and other surrounding areas bounded by the rectangle with Top Left Corner being Longitude 95^0 5' 0" E Latitude 27^0 50' 0" N and Bottom Right Corner being 95^0 40' 0" E Latitude 27^0 35' 0" N. The OIL Well No. BGN-5 at Baghjan is having GPS location at Longitude 95^0 22' 51.066" E Latitude 27^0 35' 46.566" N as per the Eco-sensitive Zone notification of the Dibru Saikhowa National Park vide No. SO.460(E) Dt. 28th January, 2020 of the Ministry of Environment, Forests & Climate Change, New Delhi-110 003. The event phases are divided as of now into three time periods, namely 1. Prior to 10.30 AM of 27th May, 2020, 2. between 10.30 Am of 27th May,

2020 to 1.30 PM of 9th June, 2020 and 3. After 1.30 PM of 9th June, 2020 till date. In order to give a better assessment, all incidents preferably should be reported citing their radial distances from the blast site, even if approximately. If there are reports beyond the bounding rectangle, those may also be submitted to the Committee by citing approximate distances from the blast site.

The Committee now seeks, pertaining to your Department/ Originations, the following:

1. Information/ records/ study report/ incidences of damages/ research work/ baseline data/ maps/ for the period prior to the occurrence of the incident of Blow Out.
2. Sampling studies, survey estimates and or actual case studies carried out/ recorded after the period of the Blow Out incident.
3. Special mentions:
   i. Assessment of stress levels & trauma.
   ii. Assessment of loss of cattle, poultry, piggery, duckery, fishery.
   iii. Assessment of loss of home orchards and gardens.

You may submit the data/information available with your organization/office for the above three periods, so as to enable the Committee to draw near accurate assessment of baselines and damage data on the ecology, environment, biodiversity, wildlife and environment in general due to the impact of the Blow out and the subsequent fire incident.

You may send the information available with you in soft copy format by email to onemancommitteemky@gmail.com or in hard copy format at Room No. 8, Circuit House, Tinsukia, from 11.00 AM to 4.30 PM on all days till 24th of June, 2020. May please note that if no information is received from your end within the stipulated time, it shall be assumed that you have nothing to say in this matter. May also please note that the Committee shall bear no expenditure of any surveys/data collection or photocopying costs etc. that you might incur in submitting the information to the Committee.

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(MK Yadava, IFS)

Copy to the Deputy Commissioner, Tinsukia, Assam for information.

(MK Yadava, IFS)

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GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,

TINSUKIA, ASSAM,

PIN-786126.

Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/9 Dated: 15/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The Chairman,
Pollution Control Board Assam,
Bamunimaidam, Guwahati - 21

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

In this regard, the Committee has decided to study the areas of Dibru Saikhowa National Park, Maguri Motapung Beel, Baghjan and other surrounding areas bounded by the rectangle with Top Left Corner being Longitude 95^0 5' 0" E Latitude 27^0 50' 0" N and Bottom Right Corner being 95^0 40' 0" E Latitude 27^0 35' 0" N. The OIL Well No. BGN-5 at Baghjan is having GPS location at Longitude 95^0 22' 51.066" E Latitude 27^0 35' 46.566" N as per the Eco-sensitive Zone notification of the Dibru Saikhowa National Park vide No. SO.460(E) Dt. 28th January, 2020 of the Ministry of Environment, Forests & Climate Change, New Delhi-110 003. The event phases are divided as of now into three time

periods, namely 1. Prior to 10.30 AM of 27th May, 2020, 2. between 10.30 Am of 27th May, 2020 to 1.30 PM of 9th June, 2020 and 3. After 1.30 PM of 9th June, 2020 till date. In order to give a better assessment, all incidents preferably should be reported citing their radial distances from the blast site, even if approximately. If there are reports beyond the bounding rectangle, those may also be submitted to the Committee by citing approximate distances from the blast site.

The Committee now seeks, pertaining to your Department/ Originations, the following:

1. Information/ records/ study report/ incidences of damages/ research work/ baseline data/ maps/ for the period prior to the occurrence of the incident of Blow Out.
2. Sampling studies, survey estimates and or actual case studies carried out/ recorded after the period of the Blow Out incident.
3. Special mentions: Air quality/ Water quality/Soil temperature/ Noise sampling/ Air temperature/ Heavy metals & hydrocarbon in air, water & soil, time series data in the area, air water sampling near wells prior to blow out, during blow out and after blow out catching fire.

You may submit the data/information available with your organization/office for the above three periods, so as to enable the Committee to draw near accurate assessment of baselines and damage data on the ecology, environment, biodiversity, wildlife and environment in general due to the impact of the Blow out and the subsequent fire incident.

You may send the information available with you in soft copy format by email to onemancommitteemky@gmail.com or in hard copy format at Room No. 8, Circuit House, Tinsukia, from 11.00 AM to 4.30 PM on all days till 24th of June, 2020. May please note that if no information is received from your end within the stipulated time, it shall be assumed that you have nothing to say in this matter. May also please note that the Committee shall bear no expenditure of any surveys/data collection or photocopying costs etc. that you might incur in submitting the information to the Committee.

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(MK Yadava, IFS)

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(MK Yadava, IFS)

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GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,

TINSUKIA, ASSAM,

PIN-786126.

Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/10 Dated: 15/06/2020

From: M.K. Yadava, IFS,
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The District Sericulture Officer,
Tinsukia

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

In this regard, the Committee has decided to study the areas of Dibru Saikhowa National Park, Maguri Motapung Beel, Baghjan and other surrounding areas bounded by the rectangle with Top Left Corner being Longitude 95^0 5' 0" E Latitude 27^0 50' 0" N and Bottom Right Corner being 95^0 40' 0" E Latitude 27^0 35' 0" N. The OIL Well No. BGN-5 at Baghjan is having GPS location at Longitude 95^0 22' 51.066" E Latitude 27^0 35' 46.566" N as per the Eco-sensitive Zone notification of the Dibru Saikhowa National Park vide No. SO.460(E) Dt. 28th January, 2020 of the Ministry of Environment, Forests & Climate Change, New Delhi-110 003. The event phases are divided as of now into three time periods, namely 1. Prior to 10.30 AM of 27th May, 2020, 2. between 10.30 Am of 27th May,

2020 to 1.30 PM of 9th June, 2020 and 3. After 1.30 PM of 9th June, 2020 till date. In order to give a better assessment, all incidents preferably should be reported citing their radial distances from the blast site, even if approximately. If there are reports beyond the bounding rectangle, those may also be submitted to the Committee by citing approximate distances from the blast site.

The Committee now seeks, pertaining to your Department/ Originations, the following:

1. Information/ records/ study report/ incidences of damages/ research work/ baseline data/ maps/ for the period prior to the occurrence of the incident of Blow Out.
2. Sampling studies, survey estimates and or actual case studies carried out/ recorded after the period of the Blow Out incident.
3. Special mentions: Damage to sericulture plantations of Govt. and private bodies, impact on Eri and Muga Silk worms, estimation of the loses and productivity.

You may submit the data/information available with your organization/office for the above three periods, so as to enable the Committee to draw near accurate assessment of baselines and damage data on the ecology, environment, biodiversity, wildlife and environment in general due to the impact of the Blow out and the subsequent fire incident.

You may send the information available with you in soft copy format by email to onemancommitteemky@gmail.com or in hard copy format at Room No. 8, Circuit House, Tinsukia, from 11.00 AM to 4.30 PM on all days till 24th of June, 2020. May please note that if no information is received from your end within the stipulated time, it shall be assumed that you have nothing to say in this matter. May also please note that the Committee shall bear no expenditure of any surveys/data collection or photocopying costs etc. that you might incur in submitting the information to the Committee.

This may be treated as MOST URGENT.

(MK Yadava, IFS)

Copy to the Deputy Commissioner, Tinsukia, Assam for information.

(MK Yadava, IFS)

सत्यमेव जयते

GOVERNMENT OF ASSAM
OFFICE OF THE ONE MAN ENQUIRY COMMITTEE
(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)
ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com
No. OMEC/MKY/BGN-5/2020/L01/11 Dated: 15/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The District Agriculture Officer,
Tinsukia District,
Tinsukia

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

In this regard, the Committee has decided to study the areas of Dibru Saikhowa National Park, Maguri Motapung Beel, Baghjan and other surrounding areas bounded by the rectangle with Top Left Corner being Longitude 95^0 5' 0" E Latitude 27^0 50' 0" N and Bottom Right Corner being 95^0 40' 0" E Latitude 27^0 35' 0" N. The OIL Well No. BGN-5 at Baghjan is having GPS location at Longitude 95^0 22' 51.066" E Latitude 27^0 35' 46.566" N as per the Eco-sensitive Zone notification of the Dibru Saikhowa National Park vide No. SO.460(E) Dt. 28th January, 2020 of the Ministry of Environment, Forests & Climate Change, New Delhi-110 003. The event phases are divided as of now into three time periods, namely 1. Prior to 10.30 AM of 27th May, 2020, 2. between 10.30 Am of 27th May,

2020 to 1.30 PM of 9th June, 2020 and 3. After 1.30 PM of 9th June, 2020 till date. In order to give a better assessment, all incidents preferably should be reported citing their radial distances from the blast site, even if approximately. If there are reports beyond the bounding rectangle, those may also be submitted to the Committee by citing approximate distances from the blast site.

The Committee now seeks, pertaining to your Department/ Originations, the following:

1. Information/ records/ study report/ incidences of damages/ research work/ baseline data/ maps/ for the period prior to the occurrence of the incident of Blow Out.
2. Sampling studies, survey estimates and or actual case studies carried out/ recorded after the period of the Blow Out incident.
3. Special mentions: Damage to paddy fields, loss of crop & crop damage, soil properties data of affected & partially affected and unaffected paddy fields, loss of farmers.

You may submit the data/information available with your organization/office for the above three periods, so as to enable the Committee to draw near accurate assessment of baselines and damage data on the ecology, environment, biodiversity, wildlife and environment in general due to the impact of the Blow out and the subsequent fire incident.

You may send the information available with you in soft copy format by email to onemancommitteemky@gmail.com or in hard copy format at Room No. 8, Circuit House, Tinsukia, from 11.00 AM to 4.30 PM on all days till 24th of June, 2020. May please note that if no information is received from your end within the stipulated time, it shall be assumed that you have nothing to say in this matter. May also please note that the Committee shall bear no expenditure of any surveys/data collection or photocopying costs etc. that you might incur in submitting the information to the Committee.

This may be treated as MOST URGENT.

(MK Yadava, IFS)

Copy to the Deputy Commissioner, Tinsukia, Assam for information.

(MK Yadava, IFS)

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GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,

TINSUKIA, ASSAM,

PIN-786126.

Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L0/42 Dated: 15/06/2020

From: M.K. Yadava, IFS,
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The District Veterinary Officer,
Tinsukia

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

In this regard, the Committee has decided to study the areas of Dibru Saikhowa National Park, Maguri Motapung Beel, Baghjan and other surrounding areas bounded by the rectangle with Top Left Corner being Longitude 95° 5' 0" E Latitude 27° 50' 0" N and Bottom Right Corner being 95° 40' 0" E Latitude 27° 35' 0" N. The OIL Well No. BGN-5 at Baghjan is having GPS location at Longitude 95° 22' 51.066" E Latitude 27° 35' 46.566" N as per the Eco-sensitive Zone notification of the Dibru Saikhowa National Park vide No. SO.460(E) Dt. 28th January, 2020 of the Ministry of Environment, Forests & Climate Change, New Delhi-110 003. The event phases are divided as of now into three time periods, namely 1. Prior to 10.30 AM of 27th May, 2020, 2. between 10.30 Am of 27th May,

2020 to 1.30 PM of 9th June, 2020 and 3. After 1.30 PM of 9th June, 2020 till date. In order to give a better assessment, all incidents preferably should be reported citing their radial distances from the blast site, even if approximately. If there are reports beyond the bounding rectangle, those may also be submitted to the Committee by citing approximate distances from the blast site.

The Committee now seeks, pertaining to your Department/ Originations, the following:

1. Information/ records/ study report/ incidences of damages/ research work/ baseline data/ maps/ for the period prior to the occurrence of the incident of Blow Out.
2. Sampling studies, survey estimates and or actual case studies carried out/ recorded after the period of the Blow Out incident.
3. Special mentions: Damage to cattle, piggery, poultry, duckery & disease incidence of cattle etc.

You may submit the data/information available with your organization/office for the above three periods, so as to enable the Committee to draw near accurate assessment of baselines and damage data on the ecology, environment, biodiversity, wildlife and environment in general due to the impact of the Blow out and the subsequent fire incident.

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This may be treated as MOST URGENT.

(MK Yadava, IFS)

Copy to the Deputy Commissioner, Tinsukia, Assam for information.

(MK Yadava, IFS)

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GOVERNMENT OF ASSAM
OFFICE OF THE ONE MAN ENQUIRY COMMITTEE
(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)
ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com
No. OMEC/MKY/BGN-5/2020/L01/13 Dated: 15/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To
The District Fishery Officer,
Tinsukia

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

In this regard, the Committee has decided to study the areas of Dibru Saikhowa National Park, Maguri Motapung Beel, Baghjan and other surrounding areas bounded by the rectangle with Top Left Corner being Longitude 95^0 5' 0" E Latitude 27^0 50' 0" N and Bottom Right Corner being 95^0 40' 0" E Latitude 27^0 35' 0" N. The OIL Well No. BGN-5 at Baghjan is having GPS location at Longitude 95^0 22' 51.066" E Latitude 27^0 35' 46.566" N as per the Eco-sensitive Zone notification of the Dibru Saikhowa National Park vide No. SO.460(E) Dt. 28th January, 2020 of the Ministry of Environment, Forests & Climate Change, New Delhi-110 003. The event phases are divided as of now into three time periods, namely 1. Prior to 10.30 AM of 27th May, 2020, 2. between 10.30 Am of 27th May,

2020 to 1.30 PM of 9th June, 2020 and 3. After 1.30 PM of 9th June, 2020 till date. In order to give a better assessment, all incidents preferably should be reported citing their radial distances from the blast site, even if approximately. If there are reports beyond the bounding rectangle, those may also be submitted to the Committee by citing approximate distances from the blast site.

The Committee now seeks, pertaining to your Department/ Originations, the following:

1. Information/ records/ study report/ incidences of damages/ research work/ baseline data/ maps/ for the period prior to the occurrence of the incident of Blow Out.
2. Sampling studies, survey estimates and or actual case studies carried out/ recorded after the period of the Blow Out incident.
3. Special mentions: Loss of fish fauna in fishery ponds, home ponds, fish Mohals, loss of fish fingerlings, change in soil/water condition due to blowout and its impact on future fish production.

You may submit the data/information available with your organization/office for the above three periods, so as to enable the Committee to draw near accurate assessment of baselines and damage data on the ecology, environment, biodiversity, wildlife and environment in general due to the impact of the Blow out and the subsequent fire incident.

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(MK Yadava, IFS)

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(MK Yadava, IFS)

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GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,

TINSUKIA, ASSAM,

PIN-786126.

Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/22 Dated: 15/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The Member Secretary,
Assam State Biodiversity Board
Aranya Bhawan, Panjabari,
Guwahati-781037

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

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Change, New Delhi-110 003. The event phases are divided as of now into three time periods, namely 1. Prior to 10.30 AM of 27th May, 2020, 2. between 10.30 Am of 27th May, 2020 to 1.30 PM of 9th June, 2020 and 3. After 1.30 PM of 9th June, 2020 till date. In order to give a better assessment, all incidents preferably should be reported citing their radial distances from the blast site, even if approximately. If there are reports beyond the bounding rectangle, those may also be submitted to the Committee by citing approximate distances from the blast site.

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1. Information/ records/ study report/ incidences of damages/ research work/ baseline data/ maps/ for the period prior to the occurrence of the incident of Blow Out.
2. Sampling studies, survey estimates and or actual case studies carried out/ recorded after the period of the Blow Out incident.
3. Special mentions: Biodiversity baseline of the area, B.M.C. register in the area, estimation of damages of biodiversity in the area.

You may submit the data/information available with your organization/office for the above three periods, so as to enable the Committee to draw near accurate assessment of baselines and damage data on the ecology, environment, biodiversity, wildlife and environment in general due to the impact of the Blow out and the subsequent fire incident.

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(MK Yadava, IFS)

Copy to the Deputy Commissioner, Tinsukia, Assam for information.

(MK Yadava, IFS)

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GOVERNMENT OF ASSAM
OFFICE OF THE ONE MAN ENQUIRY COMMITTEE
(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)
ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com
No. OMEC/MKY/BGN-5/2020/L01/2 Dated: 15/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The Divisional Forest Officer,
Tinsukia Wildlife Division,
Tinsukia

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

In this regard, the Committee has decided to study the areas of Dibru Saikhowa National Park, Maguri Motapung Beel, Baghjan and other surrounding areas bounded by the rectangle with Top Left Corner being Longitude 95^0 5' 0" E Latitude 27^0 50' 0" N and Bottom Right Corner being 95^0 40' 0" E Latitude 27^0 35' 0" N. The OIL Well No. BGN-5 at Baghjan is having GPS location at Longitude 95^0 22' 51.066" E Latitude 27^0 35' 46.566" N as per the Eco-sensitive Zone notification of the Dibru Saikhowa National Park vide No. SO.460(E) Dt. 28th January, 2020 of the Ministry of Environment, Forests & Climate Change, New Delhi-110 003. The event phases are divided as of now into three time

periods, namely 1. Prior to 10.30 AM of 27th May, 2020, 2. between 10.30 Am of 27th May, 2020 to 1.30 PM of 9th June, 2020 and 3. After 1.30 PM of 9th June, 2020 till date. In order to give a better assessment, all incidents preferably should be reported citing their radial distances from the blast site, even if approximately. If there are reports beyond the bounding rectangle, those may also be submitted to the Committee by citing approximate distances from the blast site.

The Committee now seeks, pertaining to your Department/ Originations, the following:

1. Information/ records/ study report/ incidences of damages/ research work/ baseline data/ maps/ for the period prior to the occurrence of the incident of Blow Out.
2. Sampling studies, survey estimates and or actual case studies carried out/ recorded after the period of the Blow Out incident.
3. Special mentions:
    1. Baseline of biodiversity of Dibru-Saikhuwa NP and surrounding areas.
    2. All research studies and their findings in the area.
    3. List of animals found dead after 27th May 2020 and their carcasses.
    4. List of all samplings and their outcome
    5. Estimate of damages to wildlife and wildlife habitat.

You may submit the data/information available with your organization/office for the above three periods, so as to enable the Committee to draw near accurate assessment of baselines and damage data on the ecology, environment, biodiversity, wildlife and environment in general due to the impact of the Blow out and the subsequent fire incident.

You may send the information available with you in soft copy format by email to onemancommitteemky@gmail.com or in hard copy format at Room No. 8, Circuit House, Tinsukia, from 11.00 AM to 4.30 PM on all days till 24th of June, 2020. May please note that if no information is received from your end within the stipulated time, it shall be assumed that you have nothing to say in this matter. May also please note that the Committee shall bear no expenditure of any surveys/data collection or photocopying costs etc. that you might incur in submitting the information to the Committee.

This may be treated as MOST URGENT.

(MK Yadava, IFS)

Copy to the Deputy Commissioner, Tinsukia, Assam for information.

(MK Yadava, IFS)

सत्यमेव जयते

GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/25 Dated: 15/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The Divisional Forest Officer,
Dibrugarh (T) Division
Dibrugarh

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

In this regard, the Committee has decided to study the areas of Dibru Saikhowa National Park, Maguri Motapung Beel, Baghjan and other surrounding areas bounded by the rectangle with Top Left Corner being Longitude 95^0 5' 0" E Latitude 27^0 50' 0" N and Bottom Right Corner being 95^0 40' 0" E Latitude 27^0 35' 0" N. The OIL Well No. BGN-5 at Baghjan is having GPS location at Longitude 95^0 22' 51.066" E Latitude 27^0 35' 46.566" N as per the Eco-sensitive Zone notification of the Dibru Saikhowa National Park vide No. SO.460(E) Dt. 28th January, 2020 of the Ministry of Environment, Forests & Climate Change, New Delhi-110 003. The event phases are divided as of now into three time

periods, namely 1. Prior to 10.30 AM of 27th May, 2020, 2. between 10.30 Am of 27th May, 2020 to 1.30 PM of 9th June, 2020 and 3. After 1.30 PM of 9th June, 2020 till date. In order to give a better assessment, all incidents preferably should be reported citing their radial distances from the blast site, even if approximately. If there are reports beyond the bounding rectangle, those may also be submitted to the Committee by citing approximate distances from the blast site.

The Committee now seeks, pertaining to your Department/ Originations, the following:

1. Information/ records/ study report/ incidences of damages/ research work/ baseline data/ maps/ for the period prior to the occurrence of the incident of Blow Out.
2. Sampling studies, survey estimates and or actual case studies carried out/ recorded after the period of the Blow Out incident.
3. Special mentions:
    1. Baseline of biodiversity of Maguri Motapung Beel and surrounding areas.
    2. All research studies and their findings in the area.
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You may submit the data/information available with your organization/office for the above three periods, so as to enable the Committee to draw near accurate assessment of baselines and damage data on the ecology, environment, biodiversity, wildlife and environment in general due to the impact of the Blow out and the subsequent fire incident.

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This may be treated as MOST URGENT.

(MK Yadava, IFS)

Copy to the Deputy Commissioner, Tinsukia, Assam for information.

(MK Yadava, IFS)

PART 4

LETTERS ISSUED FROM ONE MAN ENQUIRY COMMITTEE TO OIL INDIA LIMITED

सत्यमेव जयते

GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/45 Dated:27/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To:

The Resident Chied Executive,
Oil India Limited, Duliajan,
Assam.

Sub: Information about oil/gas well around Dibru-Saikhowa National Park.

Ref:- (i) Office Letter No. **OMEC/MKY/BGN-5/2020/L01/26 dated 17.06.2020.**
(ii) Reply of OIL vide Ref. No. **S&E/E-121/820 dated 20.06.2020.**
(iii) EC No. **J-11011/1255/2007-IA II (I) dated 01.11.2011 of MoEF&CC, New Delhi-3**

With reference to the subject cited above, please furnish the following information-

1. Out of the 26 nos. development wells and 15 exploratory wells to be drilled/drilled as specified in EC, **Three (3 nos.)** of oil wells namely **BGN-25, BGN-26 & BGN-27** of Well Plinth **BGN-25 Plinth** are lying outside the boundary as specified in EC. If any additional EC has been issued against the aforesaid wells, the same may please be furnished.

Your replies must reach within 3rd of July 2020 failing to which shall be assumed that you have nothing to say in this matter.

(M.K. Yadava, IFS)

सत्यमेव जयते

GOVERNMENT OF ASSAM
OFFICE OF THE ONE MAN ENQUIRY COMMITTEE
(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)
ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com
No. OMEC/MKY/BGN-5/2020/L01/44 Dated:27/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To:
The Resident Chief Executive,
Oil India Limited, Duliajan,
Assam

Sub: Information about oil/gas well around Dibru-Saikhowa National Park.

Ref:- Office Letter No. **OMEC/MKY/BGN-5/2020/L01/26**

It has been reported yesterday i.e, 26th June,2020 by about 2:00AM by the local villagers as well as DFO Tinsukia Wildlife and DFO Dibrugarh that large quantities of oil has leaked from the ground zero to the surrounding areas and into Maguri Motapung beel and the Dibru river. In all livelihoods, the oil smeared waters might also have entered the Dibru-Saikhowa National Park. A large number of fishes, aquatic fauna and reptiles have been killed during this event till late evening. This appears to be much larger in volume than before.

The matter may be investigated at your end and you are hereby asked to furnish:-

i. The source of the oil.
ii. The quantum of oil that leaked.
iii. Steps taken to neutralize the collected oil earlier to this new event.

This may be treated as MOST URGENT. Your replies must reach within 3rd of July 2020 failing to which shall be assumed that you have nothing to say in this matter.

(M.K. Yadava, IFS)

Copy to Deputy Commissioner, Tinsukia, Assam for information.

(M.K. Yadava, IFS)

सत्यमेव जयते

GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,

TINSUKIA, ASSAM,

PIN-786126.

Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/26 Dated: 17/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The Resident Chief Executive,
Oil India Limited, Duliajan, Assam.

Subject: - Information about Oil/Gas well~~s are~~ around Dibru Saikhowa National Park.

Reference: - Letter no. **OMEC/MKY/BGN-5/2020/L01/6 Dated: 15/06/2020**

With reference to subject cited above, I wish to seek to the following information –

1. How many wells of OIL and Gas are there in Baghjan area within 5 kilometre distance from Dibru Saikhowa National Park? Kindly provide the GPS coordinates of these well~~s~~ too.

2. What is the status of the land of these wells? Whether the land belongs to revenue area, Forest area or deemed Forest area?

3. When did OIL applied for clearance of National Board of Wildlife, State Board of Wildlife? Kindly provide the copies of these letters.

4. When did OIL applied for Environmental Clearance and when did it obtain the same?

Treat the matter as most urgent.

(MK Yadava, IFS)

सत्यमेव जयते

GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/36 Dated:26/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The Resident Chief Executive,
Oil India Limited, Duliajan, Assam.

Sub: Information about Oil/Gas around Dibru Saikhowa National Park

Reference: Letter No. **i. OMEC/MKY/BGN-5/2020/L01/6 dated 15/06/2020**
ii. OMEC/MKY/BGN-5/2020/L01/26 dated 17/06/2020

With reference to the subject cited above the following information are sought further to and in continuation of the previous communications vide the references mentioned above-

1. Whether any seismic survey of the area near the blow out in 5-10 kms range was conducted in 1998-99 or any such period? If so, the findings/report to be shared.

2. Whether any seismic survey of the area near the blow out in 5-10 kms range was conducted in 2018-19 or any such period? If so, the findings/report to be shared.

This information may be furnished by 2nd July, 2020 failing to which shall be assumed that you have nothing to say in this matter.

(M.K. Yadava, IFS)

सत्यमेव जयते

GOVERNMENT OF ASSAM
OFFICE OF THE ONE MAN ENQUIRY COMMITTEE
(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)
ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com
No. OMEC/MKY/BGN-5/2020/L01/37 Dated:26/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The Resident Chief Executive,
Oil India Limited, Duliajan, Assam.

Sub: Information about Oil/Gas around Dibru Saikhowa National Park

Reference: Letter No. **i. OMEC/MKY/BGN-5/2020/L01/6 dated 15/06/2020**
ii. OMEC/MKY/BGN-5/2020/L01/26 dated 17/06/2020

With reference to the subject cited above the following information are sought further to and in continuation of the previous communications vide the references mentioned above-

1. Steps taken for cleaning of the oil spill in the Maguri Motapung beel with details of technology being used/proposed to be used together with cost estimates.

2. Steps taken for cleaning of the oil spills in various smaller water bodies around the blow out with details of technology being used/proposed to be used together with cost estimates.

This information may be furnished by 2nd July, 2020 failing to which shall be assumed that you have nothing to say in this matter.

(M.K. Yadava, IFS)

सत्यमेव जयते

GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,

TINSUKIA, ASSAM,

PIN-786126.

Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/38 Dated:26/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To:

The Resident Chief Executive
Oil India Limited,Duliajan,Assam.

Subject:- Information about Oil/Gas well at Dibru Saikhowa National Park.

Reference:-Letter no. OMEC/MKY/BGN-5/2020/L01/26 Dated:17-06-2020

With reference to your letter dated 20.06.2020 you have mentioned the DFO(WL) Tinsukia Division dated 19.09.2011, none of these annexures were attached. For the sake of clarity, 4 Annexures are mentioned below-

Annexure 1- Letter to the Conservator of Forest (Wildlife)
Annexure 2- Certificate from PCCF (WL), Assam received vide letter ref. WL/FG.35/Nodal Proposal/OIL dt. 18.06.2010.
Annexure 3- Email received from M/s ENGECORC
Annexure 4- TOR issued by MoEF

You are required to furnish copies of the annexures by Monday, 29th June 2020, failing to which shall be assumed that you have nothing to say in this matter.

(M.K. Yadava, IFS)

सत्यमेव जयते

GOVERNMENT OF ASSAM
OFFICE OF THE ONE MAN ENQUIRY COMMITTEE
(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)
ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com
No. OMEC/MKY/BGN-5/2020/L01/40 Dated:26/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To:
The Resident Chied Executive,
Oil India Limited, Duliajan,
Assam.

Sub: Information about oil/gas well around Dibru-Saikhowa National Park.

Ref:- (i) Office Letter No. **OMEC/MKY/BGN-5/2020/L01/26 dated 17.06.2020.**
(ii) Reply of OIL vide Ref. No. **S&E/E-121/820 dated 20.06.2020.**

With reference to the subject cited above, it is to mention that information sought has been furnished from your end. However, on perusal of the document of Environmental Clearance EC No. J-11011/1255/2007-IA II (I) Dt. 01/11/2011 of the MoEF & CC, Govt. of India, New Delhi-110003, at Sl. No. A (i) it has been mentioned that permission was granted for 26 nos. development wells and 15 nos. exploratory wells to be drilled; and that no additional wells shall be drilled without prior permission from the Ministry.

In this regard, OIL has submitted a list of 29 wells vide their reply Dt. 20.06.2020 as referred above.

The exact current status of all the wells including GPS points, type (development/exploratory) and status (shut/sick/producing/oil/gas/under drill/exploratory etc.), for which EC was obtained, may be furnished.

(M.K. Yadava, IFS)

सत्यमेव जयते

GOVERNMENT OF ASSAM
OFFICE OF THE ONE MAN ENQUIRY COMMITTEE
(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)
ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com
No. OMEC/MKY/BGN-5/2020/L01/41 Dated:26/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To:
The Resident Chied Executive,
Oil India Limited, Duliajan,
Assam.

Sub: Information about oil/gas well around Dibru-Saikhowa National Park.

Ref:- (i) Office Letter No. **OMEC/MKY/BGN-5/2020/L01/26 dated 17.06.2020.**
(ii) Reply of OIL vide Ref. No. **S&E/E-121/820 dated 20.06.2020.**
(iii) EC No. **J-11011/1255/2007-IA II (I) dated 01.11.2011 of MoEF&CC, New Delhi-3**

With reference to the subject cited above, please furnish the following information-

1. Whether permission was obtained from the State Forest Department as per Clause **A(iii)** of the EC? May please furnish copies.

2. For the commercially producing wells (oil/gas) whether fresh EC was obtained from the MoEF&CC as per clause **A(xxiii).**

3. Action Taken Report/Documents on the compliance of the following clauses of the EC may be furnished:-
A(v), A(xiv), A(xvi), A(xviii), A(xix), A(xx), A(xxvi), A(xxviii).

Your replies must reach within 2nd of July 2020 failing to which shall be assumed that you have nothing to say in this matter.

(M.K. Yadava, IFS)

सत्यमेव जयते

GOVERNMENT OF ASSAM
OFFICE OF THE ONE MAN ENQUIRY COMMITTEE
(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)
ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com
No. OMEC/MKY/BGN-5/2020/L01/6 Dated: 15/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The Resident Chief Executive,
Oil India Limited
Duliajan

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

In this regard, the Committee has decided to study the areas of Dibru Saikhowa National Park, Maguri Motapung Beel, Baghjan and other surrounding areas bounded by the rectangle with Top Left Corner being Longitude 95^0 5' 0" E Latitude 27^0 50' 0" N and Bottom Right Corner being 95^0 40' 0" E Latitude 27^0 35' 0" N. The OIL Well No. BGN-5 at Baghjan is having GPS location at Longitude 95^0 22' 51.066" E Latitude 27^0 35' 46.566" N as per the Eco-sensitive Zone notification of the Dibru Saikhowa National Park vide No. SO.460(E) Dt. 28th January, 2020 of the Ministry of Environment, Forests & Climate Change, New Delhi-110 003. The event phases are divided as of now into three time periods, namely 1. Prior to 10.30 AM of 27th May, 2020, 2. between 10.30 Am of 27th May,

2020 to 1.30 PM of 9th June, 2020 and 3. After 1.30 PM of 9th June, 2020 till date. In order to give a better assessment, all incidents preferably should be reported citing their radial distances from the blast site, even if approximately. If there are reports beyond the bounding rectangle, those may also be submitted to the Committee by citing approximate distances from the blast site.

The Committee now seeks, pertaining to your Department/ Originations, the following:

1. Information/ records/ study report/ incidences of damages/ research work/ baseline data/ maps/ for the period prior to the occurrence of the incident of Blow Out.
2. Sampling studies, survey estimates and or actual case studies carried out/ recorded after the period of the Blow Out incident.
3. Special mentions :
   i. Physical dimension of the blowout and its spread (with map).
   ii. Physical dimension of the fire at the well and its thermal and optical characteristics.
   iii. Details of the emissions from BGN-5 from 27th May to 9th June and 9th June to till date and chemical compositions of the components.
   iv. "Ultrasonic and supersonic" characteristics and "resonance" properties of the sound from the fire.
   v. Thermal profile of the area from ground 0 to 1 Km.
   vi. Noise profile of the area in 1 Km range.
   vii. History of leaks/ fires / flairs in the region.
   viii. Brief of similar incidents reported in India having similar or higher magnitude; also else- where in the world.
   ix. EIA assessments prior to 21/05/2020 in the area.
   x. Air quality and water quality monitoring data for the three periods mentioned in the 2nd para of this letter.
   xi. Assessment of spread of the condensate material from 27th May to 9th June and map thereof.
   xii. Soil sampling analysis in the area prior to commissioning of the well after commissioning and prior to blowout, during the period of blow out and after fire incident.
   xiii. Sampling of rain water in the area to examine possibilities of phenomenon on the lives of "acid rain".

xiv. Impact on eye car and brain (mental and physical) of constant explore to 100 DB noise 30°-50° heat falling on the skin and a very high lumens constant explore (to the eye) and mental stress levels.

xv. Any "Simulation" studies if possible "scenario pathways" of blowout and fires and possible impact on surroundings including flora and fauna.

xvi. Nearest Test laboratory infrastructure of OIL from the site and its details.

You may submit the data/information available with your organization/office for the above three periods, so as to enable the Committee to draw near accurate assessment of baselines and damage data on the ecology, environment, biodiversity, wildlife and environment in general due to the impact of the Blow out and the subsequent fire incident.

You may send the information available with you in soft copy format by email to onemancommitteemky@gmail.com or in hard copy format at Room No. 8, Circuit House, Tinsukia, from 11.00 AM to 4.30 PM on all days till 24th of June, 2020. May please note that if no information is received from your end within the stipulated time, it shall be assumed that you have nothing to say in this matter. May also please note that the Committee shall bear no expenditure of any surveys/data collection or photocopying costs etc. that you might incur in submitting the information to the Committee.

This may be treated as MOST URGENT.

(MK Yadava, IFS)

Copy to the Deputy Commissioner, Tinsukia, Assam for information.

(MK Yadava, IFS)

PART 5

LETTERS ISSUED FROM ONE MAN ENQUIRY COMMITTEE TO OTHER ORGANIZATIONS

सत्यमेव जयते

GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/24 Dated: 15/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The General Secretary,
All Assam Small Tea Growers' Association (AASTGA),
Sarala Nagar, Jorhat,By-pass, PO & Dist. Jorhat,
Assam-785001

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

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Change, New Delhi-110 003. The event phases are divided as of now into three time periods, namely 1. Prior to 10.30 AM of 27th May, 2020, 2. between 10.30 Am of 27th May, 2020 to 1.30 PM of 9th June, 2020 and 3. After 1.30 PM of 9th June, 2020 till date. In order to give a better assessment, all incidents preferably should be reported citing their radial distances from the blast site, even if approximately. If there are reports beyond the bounding rectangle, those may also be submitted to the Committee by citing approximate distances from the blast site.

The Committee now seeks, pertaining to your Department/ Originations, the following:

1. Information/ records/ study report/ incidences of damages/ research work/ baseline data/ maps/ for the period prior to the occurrence of the incident of Blow Out.
2. Sampling studies, survey estimates and or actual case studies carried out/ recorded after the period of the Blow Out incident.
3. Special mentions: Loss of tree production, damage to tea bushes, shade trees, loss of wages, loss of estimation in terms of quality, quantity and cost etc.

You may submit the data/information available with your organization/office for the above three periods, so as to enable the Committee to draw near accurate assessment of baselines and damage data on the ecology, environment, biodiversity, wildlife and environment in general due to the impact of the Blow out and the subsequent fire incident.

You may send the information available with you in soft copy format by email to onemancommitteemky@gmail.com or in hard copy format at Room No. 8, Circuit House, Tinsukia, from 11.00 AM to 4.30 PM on all days till 24th of June, 2020. May please note that if no information is received from your end within the stipulated time, it shall be assumed that you have nothing to say in this matter. May also please note that the Committee shall bear no expenditure of any surveys/data collection or photocopying costs etc. that you might incur in submitting the information to the Committee.

This may be treated as MOST URGENT.

(MK Yadava, IFS)

Copy to the Deputy Commissioner, Tinsukia, Assam for information.

(MK Yadava, IFS)

सत्यमेव जयते

GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/5 Dated: 15/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

Managing Director
Assam Tea Corporation Ltd
Housefed Complex, C – Block, 7th Floor,
Dr. B. N. Saikia Road, Dispur,
Guwahati, Assam–781006.

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

In this regard, the Committee has decided to study the areas of Dibru Saikhowa National Park, Maguri Motapung Beel, Baghjan and other surrounding areas bounded by the rectangle with Top Left Corner being Longitude 95^0 5' 0" E Latitude 27^0 50' 0" N and Bottom Right Corner being 95^0 40' 0" E Latitude 27^0 35' 0" N. The OIL Well No. BGN-5 at Baghjan is having GPS location at Longitude 95^0 22' 51.066" E Latitude 27^0 35' 46.566" N as per the Eco-sensitive Zone notification of the Dibru Saikhowa National Park vide No. SO.460(E) Dt. 28th January, 2020 of the Ministry of Environment, Forests & Climate

Change, New Delhi-110 003. The event phases are divided as of now into three time periods, namely 1. Prior to 10.30 AM of 27th May, 2020, 2. between 10.30 Am of 27th May, 2020 to 1.30 PM of 9th June, 2020 and 3. After 1.30 PM of 9th June, 2020 till date. In order to give a better assessment, all incidents preferably should be reported citing their radial distances from the blast site, even if approximately. If there are reports beyond the bounding rectangle, those may also be submitted to the Committee by citing approximate distances from the blast site.

The Committee now seeks, pertaining to your Department/ Originations, the following:

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2. Sampling studies, survey estimates and or actual case studies carried out/ recorded after the period of the Blow Out incident.
3. Special mentions: Loss of tree production, damage to tea bushes, shade trees, loss of wages, loss of estimation in terms of quality, quantity and cost etc.

You may submit the data/information available with your organization/office for the above three periods, so as to enable the Committee to draw near accurate assessment of baselines and damage data on the ecology, environment, biodiversity, wildlife and environment in general due to the impact of the Blow out and the subsequent fire incident.

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(MK Yadava, IFS)

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(MK Yadava, IFS)

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GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,

TINSUKIA, ASSAM,

PIN-786126.

Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/14 Dated: 15/06/2020

From: M.K. Yadava, IFS,
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The Manager
Gelapukhuri Tea Estate
Tinsukia

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

In this regard, the Committee has decided to study the areas of Dibru Saikhowa National Park, Maguri Motapung Beel, Baghjan and other surrounding areas bounded by the rectangle with Top Left Corner being Longitude 95^0 5' 0" E Latitude 27^0 50' 0" N and Bottom Right Corner being 95^0 40' 0" E Latitude 27^0 35' 0" N. The OIL Well No. BGN-5 at Baghjan is having GPS location at Longitude 95^0 22' 51.066" E Latitude 27^0 35' 46.566" N as per the Eco-sensitive Zone notification of the Dibru Saikhowa National Park vide No. SO.460(E) Dt. 28th January, 2020 of the Ministry of Environment, Forests & Climate Change, New Delhi-110 003. The event phases are divided as of now into three time periods, namely 1. Prior to 10.30 AM of 27th May, 2020, 2. between 10.30 Am of 27th May,

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3. Special mentions: Loss of tea production, damage to tea bushes, shade trees, loss of wages, loss of estimation in terms of quality, quantity and cost etc.

You may submit the data/information available with your organization/office for the above three periods, so as to enable the Committee to draw near accurate assessment of baselines and damage data on the ecology, environment, biodiversity, wildlife and environment in general due to the impact of the Blow out and the subsequent fire incident.

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(MK Yadava, IFS)

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(MK Yadava, IFS)

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GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.

Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/16 Dated: 15/06/2020

From: M.K. Yadava, IFS,
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The Manager
Dhelakhat Tea Estate
Tinsukia

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

In this regard, the Committee has decided to study the areas of Dibru Saikhowa National Park, Maguri Motapung Beel, Baghjan and other surrounding areas bounded by the rectangle with Top Left Corner being Longitude 95^0 5' 0" E Latitude 27^0 50' 0" N and Bottom Right Corner being 95^0 40' 0" E Latitude 27^0 35' 0" N. The OIL Well No. BGN-5 at Baghjan is having GPS location at Longitude 95^0 22' 51.066" E Latitude 27^0 35' 46.566" N as per the Eco-sensitive Zone notification of the Dibru Saikhowa National Park vide No. SO.460(E) Dt. 28th January, 2020 of the Ministry of Environment, Forests & Climate Change, New Delhi-110 003. The event phases are divided as of now into three time periods, namely 1. Prior to 10.30 AM of 27th May, 2020, 2. between 10.30 Am of 27th May,

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The Committee now seeks, pertaining to your Department/ Originations, the following:

1. Information/ records/ study report/ incidences of damages/ research work/ baseline data/ maps/ for the period prior to the occurrence of the incident of Blow Out.
2. Sampling studies, survey estimates and or actual case studies carried out/ recorded after the period of the Blow Out incident.
3. Special mentions: Loss of tea production, damage to tea bushes, shade trees, loss of wages, loss of estimation in terms of quality, quantity and cost etc.

You may submit the data/information available with your organization/office for the above three periods, so as to enable the Committee to draw near accurate assessment of baselines and damage data on the ecology, environment, biodiversity, wildlife and environment in general due to the impact of the Blow out and the subsequent fire incident.

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(MK Yadava, IFS)

Copy to the Deputy Commissioner, Tinsukia, Assam for information.

(MK Yadava, IFS)

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GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,

TINSUKIA, ASSAM,

PIN-786126.

Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/17 Dated: 15/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The Manager
Rangagora Tea Estate
Tinsukia

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

In this regard, the Committee has decided to study the areas of Dibru Saikhowa National Park, Maguri Motapung Beel, Baghjan and other surrounding areas bounded by the rectangle with Top Left Corner being Longitude 95^0 5' 0" E Latitude 27^0 50' 0" N and Bottom Right Corner being 95^0 40' 0" E Latitude 27^0 35' 0" N. The OIL Well No. BGN-5 at Baghjan is having GPS location at Longitude 95^0 22' 51.066" E Latitude 27^0 35' 46.566" N as per the Eco-sensitive Zone notification of the Dibru Saikhowa National Park vide No. SO.460(E) Dt. 28th January, 2020 of the Ministry of Environment, Forests & Climate Change, New Delhi-110 003. The event phases are divided as of now into three time periods, namely 1. Prior to 10.30 AM of 27th May, 2020, 2. between 10.30 Am of 27th May,

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The Committee now seeks, pertaining to your Department/ Originations, the following:

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2. Sampling studies, survey estimates and or actual case studies carried out/ recorded after the period of the Blow Out incident.
3. Special mentions: Loss of tea production, damage to tea bushes, shade trees, loss of wages, loss of estimation in terms of quality, quantity and cost etc.

You may submit the data/information available with your organization/office for the above three periods, so as to enable the Committee to draw near accurate assessment of baselines and damage data on the ecology, environment, biodiversity, wildlife and environment in general due to the impact of the Blow out and the subsequent fire incident.

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(MK Yadava, IFS)

Copy to the Deputy Commissioner, Tinsukia, Assam for information.

(MK Yadava, IFS)

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GOVERNMENT OF ASSAM
OFFICE OF THE ONE MAN ENQUIRY COMMITTEE
(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)
ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com
No. OMEC/MKY/BGN-5/2020/L01/18 Dated: 15/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The Manager
Nemuguri Tea Estate
Tinsukia

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

In this regard, the Committee has decided to study the areas of Dibru Saikhowa National Park, Maguri Motapung Beel, Baghjan and other surrounding areas bounded by the rectangle with Top Left Corner being Longitude 95^0 5' 0" E Latitude 27^0 50' 0" N and Bottom Right Corner being 95^0 40' 0" E Latitude 27^0 35' 0" N. The OIL Well No. BGN-5 at Baghjan is having GPS location at Longitude 95^0 22' 51.066" E Latitude 27^0 35' 46.566" N as per the Eco-sensitive Zone notification of the Dibru Saikhowa National Park vide No. SO.460(E) Dt. 28th January, 2020 of the Ministry of Environment, Forests & Climate Change, New Delhi-110 003. The event phases are divided as of now into three time periods, namely 1. Prior to 10.30 AM of 27th May, 2020, 2. between 10.30 Am of 27th May,

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The Committee now seeks, pertaining to your Department/ Originations, the following:

1. Information/ records/ study report/ incidences of damages/ research work/ baseline data/ maps/ for the period prior to the occurrence of the incident of Blow Out.
2. Sampling studies, survey estimates and or actual case studies carried out/ recorded after the period of the Blow Out incident.
3. Special mentions: Loss of tea production, damage to tea bushes, shade trees, loss of wages, loss of estimation in terms of quality, quantity and cost etc.

You may submit the data/information available with your organization/office for the above three periods, so as to enable the Committee to draw near accurate assessment of baselines and damage data on the ecology, environment, biodiversity, wildlife and environment in general due to the impact of the Blow out and the subsequent fire incident.

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(MK Yadava, IFS)

Copy to the Deputy Commissioner, Tinsukia, Assam for information.

(MK Yadava, IFS)

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GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020),

ROOM NO.08, CIRCUIT HOUSE,

TINSUKIA, ASSAM,

PIN-786126.

Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/19 Dated: 15/06/2020

From: M.K. Yadava, IFS,
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The Manager
Baghjan Tea Estate (M K Shah Co.)
Tinsukia

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

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(MK Yadava, IFS)

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(MK Yadava, IFS)

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GOVERNMENT OF ASSAM

OFFICE OF THE ONE MAN ENQUIRY COMMITTEE

(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)

ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com

No. OMEC/MKY/BGN-5/2020/L01/20 Dated: 15/06/2020

From: M.K. Yadava, IFS,
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The Manager
Diamuli Tea Estate (James Warren)
Tinsukia

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

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(MK Yadava, IFS)

Copy to the Deputy Commissioner, Tinsukia, Assam for information.

(MK Yadava, IFS)

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GOVERNMENT OF ASSAM
OFFICE OF THE ONE MAN ENQUIRY COMMITTEE
(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)
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PIN-786126.
Email ID: onemancommitteemky@gmail.com
No. OMEC/MKY/BGN-5/2020/L01/21Dated: 15/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The Manager
Dighaltarang Tea Estate (Assam Tea Co.)
Tinsukia

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

In this regard, the Committee has decided to study the areas of Dibru Saikhowa National Park, Maguri Motapung Beel, Baghjan and other surrounding areas bounded by the rectangle with Top Left Corner being Longitude 95^0 5' 0" E Latitude 27^0 50' 0" N and Bottom Right Corner being 95^0 40' 0" E Latitude 27^0 35' 0" N. The OIL Well No. BGN-5 at Baghjan is having GPS location at Longitude 95^0 22' 51.066" E Latitude 27^0 35' 46.566" N as per the Eco-sensitive Zone notification of the Dibru Saikhowa National Park vide No. SO.460(E) Dt. 28th January, 2020 of the Ministry of Environment, Forests & Climate Change, New Delhi-110 003. The event phases are divided as of now into three time periods, namely 1. Prior to 10.30 AM of 27th May, 2020, 2. between 10.30 Am of 27th May,

2020 to 1.30 PM of 9th June, 2020 and 3. After 1.30 PM of 9th June, 2020 till date. In order to give a better assessment, all incidents preferably should be reported citing their radial distances from the blast site, even if approximately. If there are reports beyond the bounding rectangle, those may also be submitted to the Committee by citing approximate distances from the blast site.

The Committee now seeks, pertaining to your Department/ Originations, the following:

1. Information/ records/ study report/ incidences of damages/ research work/ baseline data/ maps/ for the period prior to the occurrence of the incident of Blow Out.
2. Sampling studies, survey estimates and or actual case studies carried out/ recorded after the period of the Blow Out incident.
3. Special mentions: Loss of tea production, damage to tea bushes, shade trees, loss of wages, loss of estimation in terms of quality, quantity and cost etc.

You may submit the data/information available with your organization/office for the above three periods, so as to enable the Committee to draw near accurate assessment of baselines and damage data on the ecology, environment, biodiversity, wildlife and environment in general due to the impact of the Blow out and the subsequent fire incident.

You may send the information available with you in soft copy format by email to onemancommitteemky@gmail.com or in hard copy format at Room No. 8, Circuit House, Tinsukia, from 11.00 AM to 4.30 PM on all days till 24th of June, 2020. May please note that if no information is received from your end within the stipulated time, it shall be assumed that you have nothing to say in this matter. May also please note that the Committee shall bear no expenditure of any surveys/data collection or photocopying costs etc. that you might incur in submitting the information to the Committee.

This may be treated as MOST URGENT.

(MK Yadava, IFS)

Copy to the Deputy Commissioner, Tinsukia, Assam for information.

(MK Yadava, IFS)

सत्यमेव जयते

GOVERNMENT OF ASSAM
OFFICE OF THE ONE MAN ENQUIRY COMMITTEE
(ORDER NO- FRW.6/2020/1 DATED.12/06/2020)
ROOM NO.08, CIRCUIT HOUSE,
TINSUKIA, ASSAM,
PIN-786126.
Email ID: onemancommitteemky@gmail.com
No. OMEC/MKY/BGN-5/2020/L01/15 Dated: 15/06/2020

From: **M.K. Yadava, IFS,**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

To

The Manager
Nalani Tea Estate
Tinsukia

This is to inform you that the Govt. of Assam in the Environment & Forests Department, has issued a Notification vide order No. FRW.6/2020/1 Dt. 12th June, 2020, instituting a One Man Enquiry Committee headed by Sri M.K. Yadava IFS, Addl. PCCF (Wildlife) & CWLW, Assam to assess the damages to the wildlife, biodiversity, water and air quality and any other damage to forest and environment due to the incident that occurred in the Baghjan Oil Well in Tinsukia District covering the environment and ecology of the areas surrounding the Blast site. (Copies of the said order and the Press Release by the Office of the Hon'ble Chief Minister, Assam vide No. 419/2020 Dt. 11th June, 2020 enclosed for ready reference).

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2020 to 1.30 PM of 9th June, 2020 and 3. After 1.30 PM of 9th June, 2020 till date. In order to give a better assessment, all incidents preferably should be reported citing their radial distances from the blast site, even if approximately. If there are reports beyond the bounding rectangle, those may also be submitted to the Committee by citing approximate distances from the blast site.

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This may be treated as MOST URGENT.

(MK Yadava, IFS)

Copy to the Deputy Commissioner, Tinsukia, Assam for information.

(MK Yadava, IFS)

PART 6

REPLIES RECEIVED FROM THE DEPARTMENTS OF GOVERNMENT OF ASSAM

ASSAM STATE BIODIVERSITY BOARD

ARANYA BHAWAN, 2nd FLOOR
PANJABARI, GUWAHATI-781037
www.asbb.gov.in

No: ABB/1/2012/ 68

Tel- 0361- 2333917; Fax: 2333780
Email: assambioboard@gmail.com
Date: 02/07/2020

From: **K.S.P.V. Pavan Kumar**, IFS
i/c Special PCCF (Biodiversity & CC)
Member Secretary-ASBB
Panjabari, Guwahati-37

To: **M.K. Yadava, IFS**
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee
Govt. of Assam

Sub: Regarding information sought from the Assam State Biodiversity Board in relation to the Baghjan Oil well blowout in Tinsukia District.

Ref: Your office letter no. OMEC/MKY/BGN-5/2020/L01/39 dated 26/06/2020.

Sir,

In inviting a reference to the subject cited above, I am submitting herewith the information as sought from the Assam State Biodiversity Board as below.

1. The PDF copy of the 'People's Biodiversity Register' (PBR) of Guijan BMC is enclosed herewith.

2. The Member Secretaries of both Guijan and Hapjan BMCs are Forest Department staff. Their contact details are as follows:

    a. Guijan BMC Member Secretary: Irfan Ali (Forester-I) - 9954230110.

    b. Hapjan BMC Member Secretary: Durgeshwar Bharali (Range officer)- 8876882261.

It may kindly be noted that the members of the BMCs are local Gaon Panchayat members who do not have any specialized technical expertise to assess the biodiversity loss within the set time limit. Nevertheless, the Member Secretaries of both the BMCs have been instructed to do an assessment of the area with the assistance of the members of the respective BMCs, and to submit a report to this office and to the One Man Committee, at the earliest.

Yours faithfully,

Enclosure as above.

02/07/2020

i/c Member Secretary
Assam State Biodiversity Board

GOVERNMENT OF ASSAM
OFFICE OF THE DISTRICT FISHERY DEV. OFFICER
TINSUKIA

No. AFT-281/2020-21/61 Dated 24th Jun/2020

To,

The Circle Officer
Doomdooma Circle

Sub : Regarding report on Fish Ponds and fishermen affected by gas leakage at Baghjan oil khad.

Sir,

With reference to the subject cited above and in continuation of earlier report I have the honour to inform you that till date 90 (70+20)nos of fish farmer pond and 897(849+48) nos. of fisherman has been affected due to the gas leakage at Baghjan oil khad well no.5. The report is not final and more numbers of affected fish farmer and fisherman will be covered in further survey report.

This is for favour of your kind information and necessary action

Your faithfully

Encl:- As stated above

District Fishery Dev. Officer
Tinsukia

Memo No. AFT-281/2020-21/62-63 Dated 24th Jun/2020

Copy to :

1. The Deputy Commissioner, Tinsukia for favour of kind information.
2. The Addl. PCCP(WL) & CWLW and one man enquiry committee, Tinsukia for favour of kind information and necessary action.

District Fishery Dev. Officer
Tinsukia

Dist. Fishery Dev. Officer
Tinsukia

List FISHER MEN AFFECTED DURING THE OIL AND GAS LEAKAGE AT BAGJAN OIL KHAD

Sl. No.	Name	Address	Remarks
1.	Sri Bhudeswar Neog	Bagjan gaon	Fishermen
2.	Sri Hundo Neog	-do-	-do-
3.	Sri Udoy Neog	-do-	-do-
4.	Sri Gandha Neog	-do-	-do-
5.	Sri Bishwajit Neog	-do-	-do-
6.	Sri Putul Neog	-do-	-do-
7.	Sri Likhan Neog	-do-	-do-
8.	Sri Bipin Moran	-do-	-do-
9.	Sri Sumitra Moran	-do-	-do-
10.	Sri Babuli Moran	-do-	-do-
11.	Sri Tapon Moran	-do-	-do-
12.	Sri Arup Moran	-do-	-do-
13.	Amulya Moran	-do-	-do-
14.	Moneswar Hazarikia	-do-	-do-
15.	Sri Ujjalata Hazarikia	-do-	-do-
16.	Sri Dholeswari Hazarikia	-do-	-do-
17.	Munindra Hazarikia	-do-	-do-
18.	Parla Gogoi	-do-	-do-
19.	Labon Moran	-do-	-do-
20.	Jatin Moran	-do-	-do-
21.	Jibokanta Moran	-do-	-do-
22.	Priya kanta Neog	-do-	-do-
23.	Mohan Moran	-do-	-do-
24.	Dimesh Boruah	-do-	-do-
25.	Akon Baruah	-do-	-do-
26.	Kulen Boruah	-do-	-do-
27.	Noren Moran	-do-	-do-
28.	Bishwajit Moran	-do-	-do-
29.	Pameswar Chutia	do-	-do-
30.	Desent Moran	-do-	-do-
31.	Mrs. Guleswari Moran	-do-	-do-
32.	Arnav Moran	-do-	-do-
33.	Kaphul Neog	-do-	-do-
34.	Nileswar Moran	-do-	-do-
35.	Hemonta Moran	-do-	-do-
36.	Nagen Hazarikia	-do-	-do-
37.	Dipak Boruah	-do-	-do-
38.	Bipul Neog	-do-	-do-
39.	Nobin Hazarikia	-do-	-do-
40.	Sabin Hazarikia	-do-	-do-
41.	Pukan Moran	-do-	-do-
42.	Rupam Chutia	-do-	-do-
43.	Mrs. Pandu Chutia	-do-	-do-
44.	Tora Chutia	-do-	-do-
45.	Probin Moran	-do-	-do-
46.	Hirendra gogoi	-do-	-do-
47.	Dipankar Moran	-do-	-do-
48.	Gokul Moran	-do-	-do-

District Fishery Dev. Officer
Tinsukia

Dist. Fishery Dev. Officer
Tinsukia

List of FISH FARMERS (INDIVIDUAL) AFFECTED DURING THE GAS LEAKAGE AT BAGJAN OIL KHAD

Sl. No.	Name	Address	Water area (ha)	Remarks
1.	Sri Kamleswar Moran	Baghjan gaon, P.O. Netaji Road, PIN- 786151	0.084	Total water area is damaged and all fish seed death by oil affect
2.	Sri Harumai Moran	-do-	0.07	
3.	Sri Sri Damen Moran	-do-	0.14	
4.	Sri Ashyut Moran	-do-	0.07	
5.	Sri Nareswar Hazarikia	-do-	0.084	
6.	Sri Dipen Moran	-do-	0.07	
7.	Sri Rudra Neog	-do-	0.84	
8.	Sri Lukeswar Moran	-do-	0.35	
9.	Sri Laban Moran	-do-	0.07	
10.	Sri Jatin Moran	-do-	0.14	
11.	Sri Niranta Moran	-do-	0.14	
12.	Sri Bideswar Moran	-do-	0.028	
13.	Sri Satyajit Moran	-do-	0.028	
14.	Sri Noren Moran	-do-	0.028	
15.	Sri Desent Moran	-do-	0.028	
16.	Sri Hirabjyoti Gogoi	-do-	0.21	
17.	Sri Phukan Moran	-do-	0.014	
18.	Sri Kukha Moran	-do-	0.07	
19.	Sri Labakanta Moran	-do-	0.07	
20.	Sri Kulsing Gogoi	-do-	0.21	

District Fishery Dev. Officer
Tinsukia

Dist. Fishery Dev. Officer
Tinsukia

GOVERNMENT OF ASSAM
OFFICE OF THE JOINT DIRECTOR OF HEALTH SERVICES, TINSUKIA,

No. JT.DHS/TSK/286 Dated Tinsukia the 24/06/2020

To

M.K. Yadava, IFA
Addl.PCCF (WL) & CWLW and
One Man enquiry Committee

From : Joint Director of Health Services, Tinsukia

Sub: Regarding the status Report of Impact of Blow out on Health of the persons in the vicinity of the Blow out site, Baghjan, Tinsukia

Sir,

With the reference to the subject cited above hereby, I am submitting the status report of Impact of Blow out on Health of persons in the vicinity of the Blow out base line data for your kind reference.

Attached herewith the status report

24.6.20

Joint Director of Health Services
Tinsukia

IMPACT OF BLOW OUT ON HEALTH OF PERSONS IN VICINITY OF BLOW OUT
BASE LINE DATA

Baghjan Gas blow out occurred on 27th May'2020 under Doomdooma Revenue Circle and which is 40Km. away from Hapjan Block Primary Health Center Block and under Baghjan sub-Center covering to a population of 4794. Subsequently a team was rushed to Baghjan M.E. School relief camp at 5-00 P.M. on 27th May'2020 under the supervision of Sub-Divisional Medical & Health Officer, Hapjan BPHC to manage the on spot disaster that may had occurred due to Gas Blow out.

At Baghjan ME School relief camp initially the inmates of the camp complained of Dizziness, Tinnitus and burning sensation of eyes and face.

Subsequently Health camps were regularly held at Baghjan ME School, Baghjan Sub-Center, Baghjan LP School Gate Line, St.Joseph School.

After the fire blow out on 9th June, 2020, 12(twelve) Medical teams were deputed on daily basis at 12th relief camps viz till 12th June'2020.

1) Baghjan ME School
2) Gate Line LP School
3) Baghjan LP School
4) St.Joseph LP School
5) Bandarkhati High School
6) Baghjan T.E. LPS (7 No. Line)
7) 8 No. Catholic Church
8) Rupai T.E. ME School
9) Nagamati LP School
10) Kesurguri LP School
11) Kordoiguri ME & High School
12) Jokaichuk ME School

Understanding the prevailing situation and for the emergency Medical needs, the Banderkhati Mini Primary Health Hospital was made functional for night duties from 12th June'2020.

Follwing team members are dedicatedly working at the Baghjan relief Camps continuously till date.

1) Medical Officers-3
2) Community Health Officers-5
3) Multi Purpose worker-12
4) Pharmacist-2
5) ANM -4
6) SW-2
7) Vaccinator-2
8) Grade-IV, -2

From 27th May'2020 till date number of cases attended by the team approximately 1448 patients were examined.

Cases identified in the following category,

1) Diarrhoea-23(referred to OIL, Dulijan Hospital-7 cases), Death-Nil
2) Suspected Measles -2 (sample taken-1)
3) Mumps-1
4) Pregnant Women-7 (Referred to OIL, Duliajan Hospital-2 Cases), Maternal Death-Nil
5) Others ((Body ache, Malaise, Tinnitus, Eye irritation, Ankle sprain, Skin infection)

Routine immunization were carried out at Banderkhati Sub-Center on 17th June'2020.

24.6.20

Joint Director of Health Services
Tinsukia

Peoples' Biodiversity Register

Guijan Anchalik Panchayat

Assam State Biodiversity Board (ASBB)

2nd Floor, Aranya Bhavan, Panjabari

Guwahati-781037

Email: assambioboard@gmail.com

Phone: 0361-2733917

Fax: 0361-2733780

CERTIFICATE

(as per Rule 22 (01) of the Biological Diversity Rules 2004)

The People's Biodiversity Register (PBR) has been endorsed vide resolution no……date…… by the ……Biodiversity Management Committees (BMC) under the supervision and guidance of ……a NGO/ National institution/ organization under the overall supervision of …...……. Biodiversity Board. The data has been processed, analyzed and interpreted by …… a NGO/ National Institution/ Organization, Biodiversity Board, School teachers, subject matter specialists, students and others. This is the I / II / III/ final phase of preparation of PBR.

Biodiversity Management Committees

1. Chairman — Signature with seal & date

2. Secretary of BMC (if appointed) — Signature with seal & date

3. Counter signature of representative of NGO/ Organization/ Individual involved in PBR exercise.

Counter Signature with seal & date
Member Secretary, ASBB
Or
Authorized Official of ASBB

Part I

1.0 The Biological Diversity Act, 2002 & Rules, 2004:

The Biological Diversity Act, 2002 (No. 18 of 2003) was notified by the Government of India on 5th February 2003. The Act extends to the whole of India and reaffirms the sovereign rights of the country over its biological resources. Subsequently the Government of India published Biological Diversity Rules, 2004 (15th April 2004). The Rules under section 22 states that 'every local body shall constitute a Biodiversity Management Committee (BMC's) within its area of jurisdiction'.

2.0 People's Biodiversity Registers and the role of the Biodiversity Management Committee:

The mandate of the Biodiversity Management Committee has been clearly highlighted in the Biological Diversity Rules 2004 as follows:

• The main function of the BMC is to prepare People's Biodiversity Register in consultation with the local people. The Register shall contain comprehensive information on availability and knowledge of local biological resources, their medicinal or any other use.

• The other functions of the BMC are to advice on any matter referred to it by the State Biodiversity Board or Authority for granting approval, to maintain data about the local vaids and practitioners using the biological resources.

• The Authority shall take steps to specify the form of the People's Biodiversity Registers, and the it shall contain and the format for electronic database.

• The Authority and the State Biodiversity Boards shall provide guidance and technical support to the Biodiversity Management Committees for preparing People's Biodiversity Registers.

• The People's Biodiversity Registers shall be maintained and validated by the Biodiversity Management Committees.

3.0 People's Biodiversity Registers and the role of National Biodiversity Authority (NBA):

The National Biodiversity Authority shall provide guidance and technical support to the Biodiversity Management Committee (BMC) for preparing People's Biodiversity Register.

People's Biodiversity Registers and the role of State Biodiversity Board (SBB):

The State Biodiversity Board (SBB) would provide necessary training to the Technical Support Group (TSG) of the district and enable smooth functioning and aid in networking for creation and maintenance of People's Biodiversity Registers (PBRs).

People's Biodiversity Registers and Role of the Technical Support Group (TSG):

The Technical Support Group (TSG) will consist of experts from various disciplines and line departments, universities, research institutes, colleges and schools and non-governmental organizations. The Technical Support Group will provide technical inputs and advice to the BMCs on identification of plants and animals, monitor and evaluate the PBR exercise, examine confidential information and advice on legal protection, maintain a database of local and external experts on biodiversity.

4.0 People's Biodiversity Registers (PBR):

The evolution of human societies over several millennia is closely related to plants and animals. The domestication of crop plants and farm animals about 12000 years ago revolutionized the human civilization by creating more stabilized societies. The early historic and medieval period gradually reduced human interaction with the wild plants and animals. The development of modern science and technologies during the industrial and post-industrial period did not do away with our link to nature. Different groups of people continue to depend on natural resources at varying scales. Some draw resources from across continents while others within a country or a region. There are also people continue to depend on locally available biodiversity and bio-resources for their livelihoods. Such population who are directly dependent on local biological resources have, through their keen sense of observation, practices, and experimentation developed and established a body of knowledge that is passed on from generation to generation. Some are widespread traditional knowledge like cultivation practices; others are highly specialized such as bone setting or jaundice, which are generally passed only to close members of the family.

India is land of biological and cultural diversity. It is one of the mega biodiverse countries of the world. It also the home of a large number of tribal groups, pursuing different kinds of nature based livelihoods. In addition, a large number of farming and fishing communities and nomadic groups possess traditional knowledge of varying degrees. The development of modern science and technologies notably biotechnology and information technologies have increased the value of biodiversity and associated knowledge including traditional knowledge (TK). The growing importance of biodiversity, bio-resources and associated knowledge is fairly well understood. The first step towards conservation is sustainable utilization of biodiversity and its documentation. Biodiversity and associated knowledge is found in different ecosystems, under different legal management regimes and hence the results and manner of documentation will also differ.

The present manual guidelines have drafted taking into consideration different ecosystems and include the rural, urban and protected areas. The guidelines may be customized and further information may be added to enrich the effort. It is important to keep in mind some of the issues related to PBRs:

- It is to be undertaken in a participatory mode involving varying sections of village society.
- While documenting, the knowledge and views of both genders are to be recorded.
- Information provided by people need to be collated, analyzed and crosschecked by the members of the Technical Support Group (TSG) before documentation.
- The PBR is important base document in the legal arena as evidence of prior knowledge and hence careful documentation is necessary.
- The document should be endorsed by the BMC and later publicized in the Gram Sabha / Gram Panchayat / Panchayat Samiti. The document can be a very useful tool in the management and sustainable use of bio resources. The document can also be a very useful teaching tool for teaching environmental studies at schools, colleges and university level
- The document should be periodically updated with additional and new information as and when generated.

4.1 The PBR Process:

The preparation of People's Biodiversity Registers (PBRs) involves the active support and cooperation of a large number of people who need to share their common as well as specialized knowledge. One of the first steps for preparing a PBR is to organize a group meeting to explain the objectives and purpose of the exercise. Different social groups in

the village need to be identified for purpose of data collection from those groups. In an urban situation, spots where biodiversity are important need to be identified for the purpose of the study and documentation. The documentation process includes information gathered from individuals through detailed questionnaire, focused group discussion with persons having knowledge and published secondary information.

4.2 Documentation of Traditional Knowledge (TK) related to biodiversity:

Documentation of knowledge of individuals about biodiversity and its uses is an important part of PBR. Every effort should be made to identify the persons with proven knowledge of local biodiversity; special attention should be given to the elderly persons who can also provide information on the biodiversity which was available in the past but no longer seen at present. In some cases, focus group discussion may be held for the purpose of documentation.

4.4 Process in PBR Preparation:

Step 1: Formation of Biodiversity Management Committee (BMC)

Step 2: Sensitization of the public about the study, survey and possible management

Step 3: Training of members in identification and collection of data on biological resources

and traditional knowledge

Step 4: Collection of data. Data collections includes review of literature on the natural resources of the districts, Participatory Rural Appraisal (PRAs) at village level, household interviews, individual interviews with village leaders and knowledgeable individuals, household heads, key actors of the panchayat raj institutions and NGOs and direct field observations

Step 5: Analysis and validation of data in consultation with technical support group and BMC

Step 6: Preparation of People's Biodiversity Register (PBR)

Step 7: Computerization of information and resources

Peoples' Biodiversity Register (PBR): General Details

Name of the Panchayat Samity: Guijan Anchalik Panchayat.
Taluk: Guijan.
District: Tinsukia.
State: Assam.
Geographical Area of the Panchayat Samity: 172.7 sq. km.
Population under the Panchayat Samity: Total: 124,113
Male: 63,472 Female: 60,641
Date, Month and Year of PBR preparation: 9-01-2017 to 20-04-2017.

Guijan is a rural town in Tinsukia district, located at 10km from it. Guijan Anchalik Panchayat extends up to 172.7 sq. km. It consists of 8 Gaon panchayat namely Borguri, Baruahola, Dimoruguri,, Gottong, Guijan, Bajaltoli, Khamtigowali and Panitola. It is surrounded by Dibru-Saikowa National Park in the north, Hapjan block in the east, Dibrugarh district in the west and Itakhuli block in the south. Due to its pleasurable climatic condition, it is most suited for the cultivation of tea along with other crops.

Guijan Anchalik Panchayat also consists of Bherjan- Borajan- Podumoni Wildlife Sanctuary with an area of 7.22 sq. km. The Bherjan block and the Podumoni block falls under Guijan Block while Borajan falls under another block. A part of Maguri-Motapung beel also comes under Guijan Block.

Guijan enjoys a humid subtropical climate with summer, winter and monsoon forming the seasonal cycle. Summer in are during March to May, and these months experience a maximum temperature of around 31 °C and a minimum of 24 °C. Rain showers are common during the summer months, and humidity is normally at its highest during this season. the monsoon months are the months of June–September bringing heavy rainfall. The temperature in the region during winter, which occurs from October to February, ranges from a maximum of 24 °C to a minimum of 11 °C. Precipitation is the lowest in December, with an average of 22 mm. In July, the precipitation reaches its peak, with an average of 527 mm.

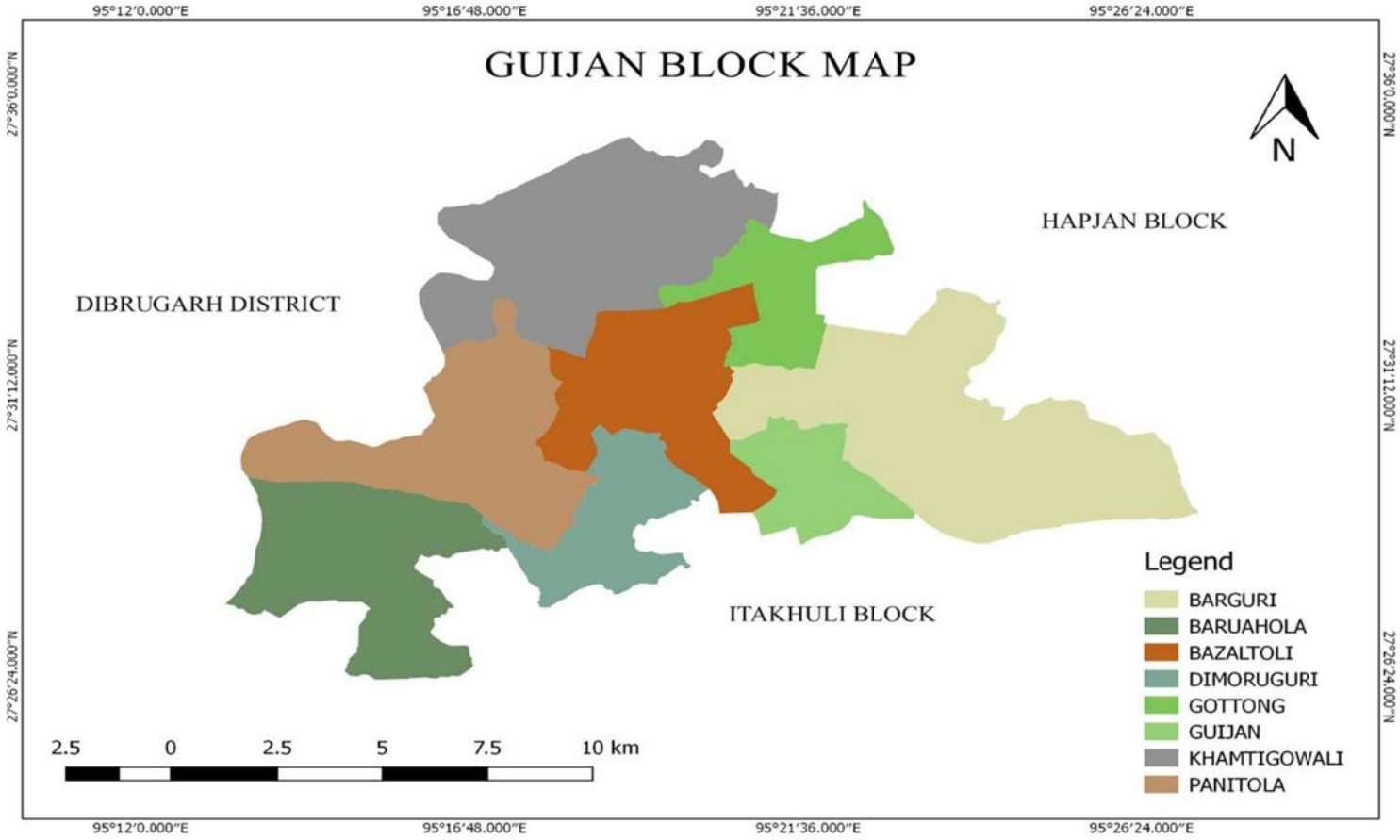
Tea cultivation is the most cultivated crop found throughout Guijan followed by rice and vegetables. The plantation of these crops is generally practiced as monoculture. Masuri and Ranjit are the main rice crops grown in the area. Vegetable cultivation also covers a significant area of Guijan.

Bherjan-Borajan-Podumoni Wildlife Sanctuary is famous for the six classes of primates that it harbors. But due to anthropogenic pressure in Podumoni block, it is taking a toll on the wildlife present there. The Maguri-Motapung beel is famous for its birds. Each year lots of migratory birds come to visit this wetland. Due to this, bird watcher enthusiast from all over the world come to visit this place. As a result, various eco camp are being set near the wetland, through which the local youths of the area are benefitted. Although it is not a part of any protected area, the local people are willingly taking up conservation on their own hands.

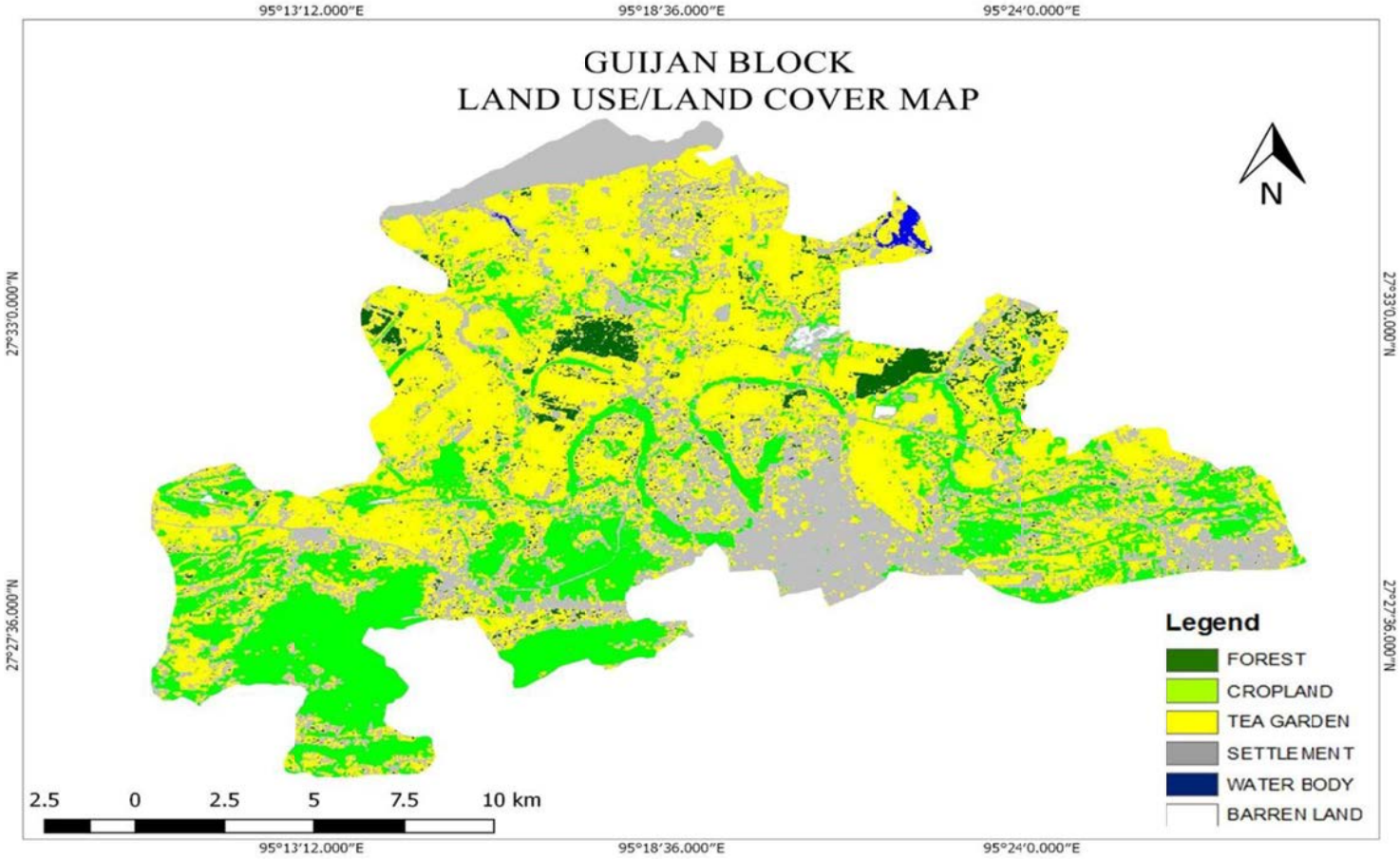
Tea is the chief cash crop that is being cultivated throughout the area. Tea cultivation is highest in Panitola and lowest in Baruahola. It is surprising to note that these two areas are located just a few kilometers away from one another, but differ in this aspect.

Fisheries in Assam are of various types. Fish is reared on commercial basis in the beel, rivers, swamps, forest derelicts, ponds and tanks. There are registered fisheries as well as some unregistered ones. Private tanks, marshy areas, dead rivers and canals generally fall in the unregistered group. Various types of breed are found in beel and rivers in the district. Fishes like Rohu, Barali, Chital, Kaliajora, Kurhi, Sol etc. are found in big beels. Fishes that are found available anywhere are Kawoi, Magur,Singra, Puthi, Darikana etc.

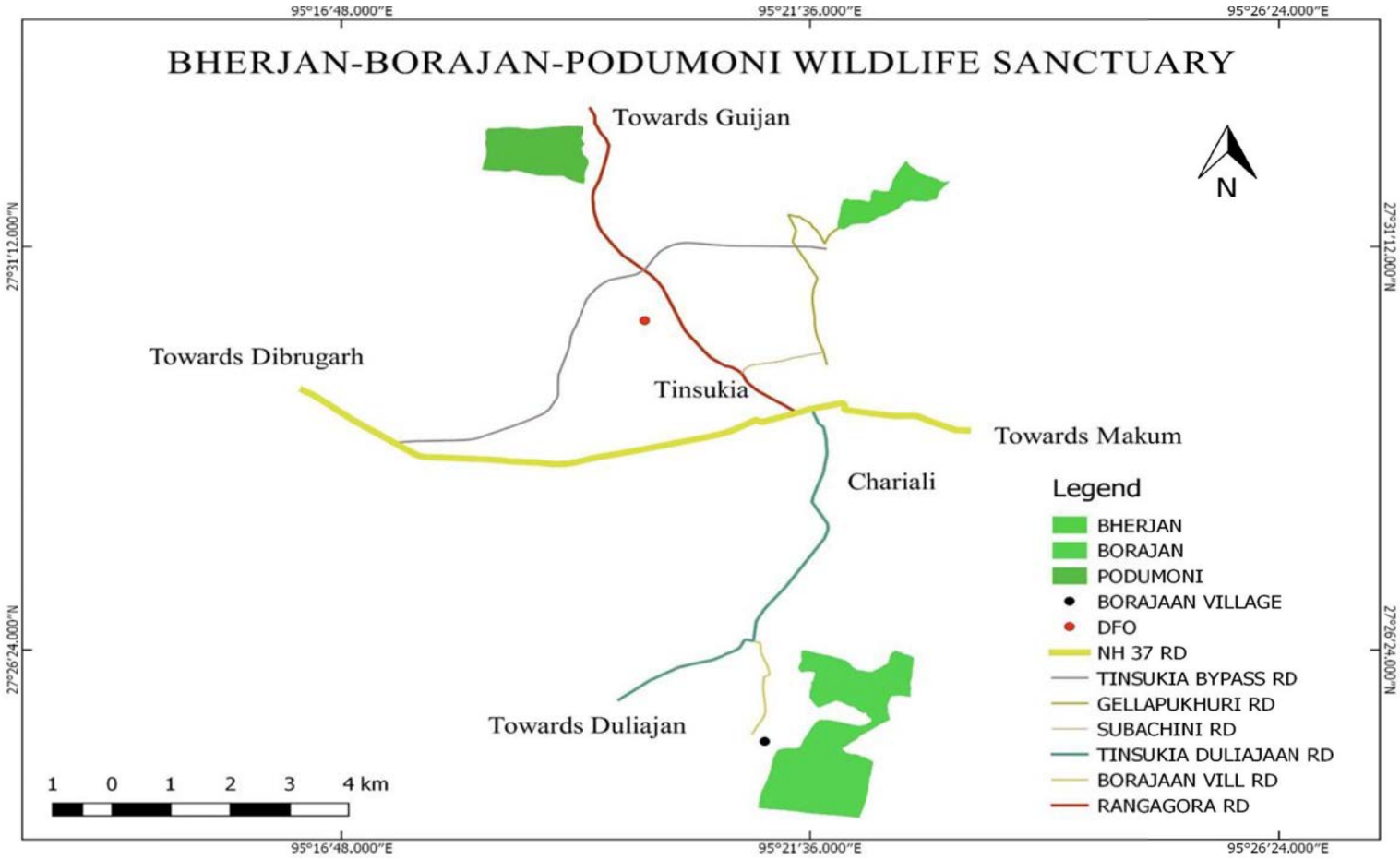
Among rice variety, Ranjit and Masuri are the chief variety that are being grown over most of the area. However, in the 2013, ATMA division of Agriculture Office introduced Manike Maduri joha rice.



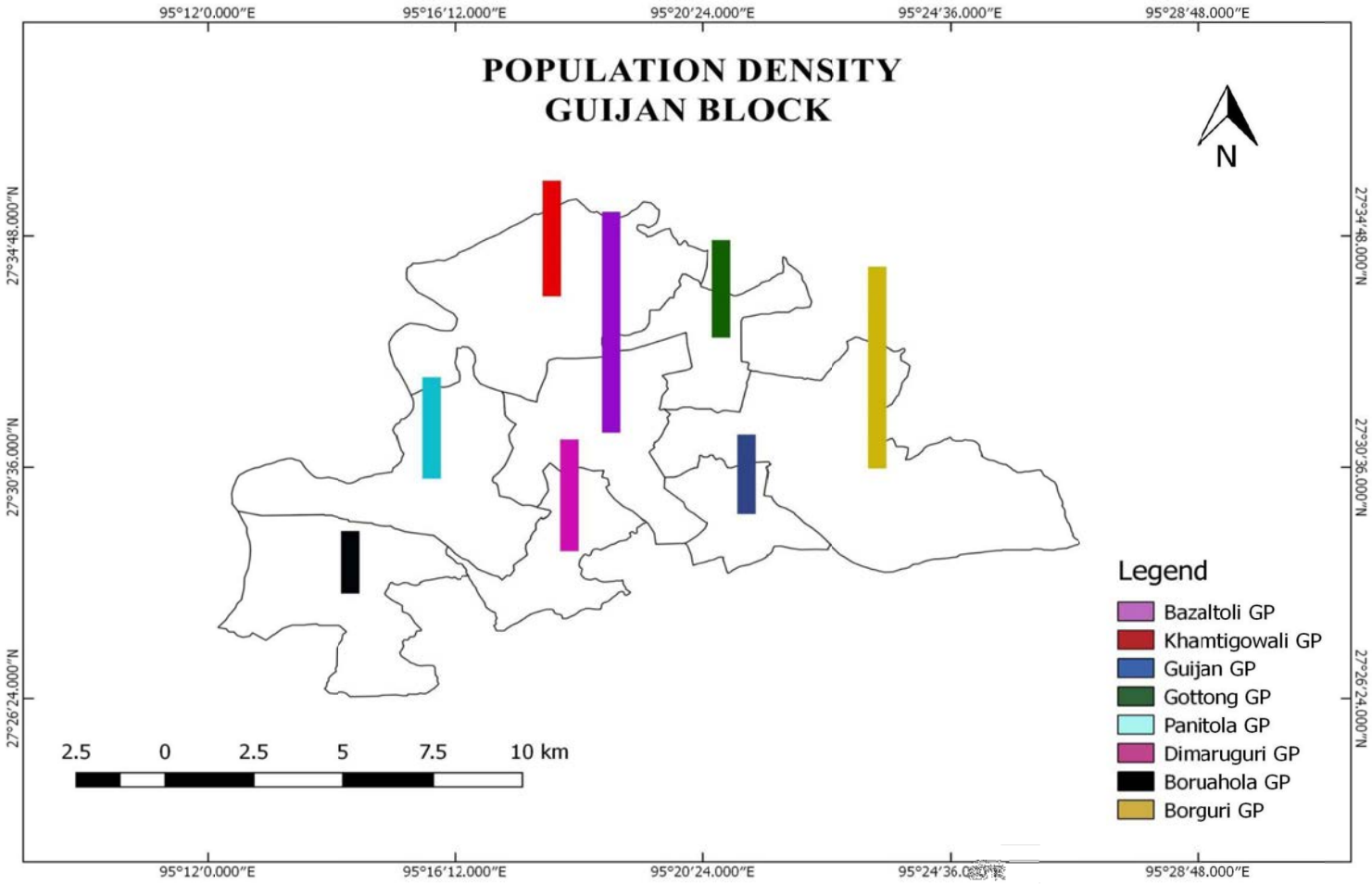
Map 1: Map showing Guijan Anchalik/ Guijan Block.



Map 2: Guijan Block Land use/ land cover Map.



Map 3: Location map showing Bherjan-Borajan-Podumoni Wildlife Sanctuary.



Map 4: Map showing population in Guijan block.

Table: Gaon Panchayat under Guijan Anchalik
Total Number of Gaon panchayat=8

District	Block		Gaon Panchayat
TINSUKIA	GUIJAN	1.	BORGURI
		2.	KHAMTIGOWALI
		3.	BORUAHOLA
		4.	DIMORUGURI
		5.	GOTTONG
		6.	GUIJAN
		7.	PANITOLA
		8.	BAJALTOLI

Annexure 1

Details of Biodiversity Management Committee (BMC) of the panchayat (One elected Chairperson and six persons nominated by the local body; not less than one third to be women and not less than 18% belonging to SC/ST).

Name of the Chairperson: Smt. Deepali Ojah
Age: 49
Gender: Female.
Address: Guijan.
Area of specialization:

Name: Smt. Parulota Borah
Age: 28
Gender: Female
Address: Bozaltoli.
Area of specialization:

Name: Smt. Layanti Das
Age: 50
Gender: Female
Address: Boruahola.
Area of specialization:

Name: Smt. Anjali Das.
Age:
Gender: Female.
Address:
Area of specialization:

Name: Shri. Jiban Kurmi.
Age: 64
Gender: Male.
Address: Dimoruguri.
Area of specialization:

Name: Shri. Manab Hazarika.
Age: 36
Gender: Male.
Address:
Area of specialization:

Name: Shri. Akhil Kumar Nath
Age: 45
Gender: Male
Address: Borguri.
Area of specialization:

Annexure 2

List of *Vaids*, *hakims* and traditional health care (human and livestock) practitioners residing and or using biological resources occurring within the jurisdiction of the village.

Name: Smt. Punuki Das.
Age: 50
Gender: Female
Address: Guijan gaon.
Area of Specialization: Specializes in the treatment of various disease using Traditional herbal medicines.
Location from which the person accesses biological material: Plants found in the village.
Perception of the practitioner on the resource status: The medicinal plants should be grown in each household so that the local people realize the importance of such plants.

Name: Smt. Upama Dutta.
Age: 45
Gender: Female
Address: Pokabum gaon, Boruahola.
Area of Specialization: Specializes in the treatment of diseases, using traditional herbal medicine.
Location from which the person accesses biological material: plants found in her backyard.
Perception of the practitioner on the resource status: The medicinal plants should be grown in different parts of the village, so that the local vaids can easily access them.

Name: Smt. Jonaki Das.
Age: 48
Gender: Female
Address: Guijan gaon.
Area of Specialization: Specializes in the treatment of various disease using Traditional herbal medicines.
Location from which the person accesses biological material: Plants found in the village
Perception of the practitioner on the resource status: The medicinal plants should be grown in different parts of the village, so that the local vaids can easily access them.

Annexure 3

List of individuals perceived by the villagers to possess Traditional Knowledge (TK) related to biodiversity in agriculture, fisheries, and forestry.

Name: Shri. Jayanta Buragohain
Age:
Gender: Male
Address: Guijan
Area of specialization: Farmer

Name: Shri. Swapan Saha
Age: 42
Gender: Male
Address: Limbuguri, Guijan.
Area of specialization: Fish cultivator.

Name: Shri. Mahendra Dihingia
Age:
Gender: Male
Address: Guijan
Area of specialization: Vaid

Name: Shri. Supsagar Jadhav
Age:
Gender: Male
Address: Guijan
Area of specialization: Forestry.

Annexure 4

Details of schools, colleges, departments, Universities, government institutions, non-governmental organization and individuals involved in the preparation of the PBR.

1) Contact Person: Shri. Aasif Bora.
Name and Address: District Agriculture Office.

2) Contact Person: Shri. Silpisikha Das, Fishery Extension Officer.
Name and Address: District Fishery Development Office.

3) Contact Person: Shri. Joyal Abedin, Wildlife Conservationist.
Name and Address: Banashree Eco camp.

Part II
PBR – Formats
AGROBIODIVERSITY

Format 1: Crop Plants: Rice Varieties

1	2	3	4	5	6	7	8		9	10	11	12	13
Sl.no	Crop	Scientific Name	Local Name	Variety	Landscape/ Habitat	Approx. area shown	Local Status		Cropping season	Uses	Associated TK	Source of Seeds/ Plants	Community/ Knowledge holder
							Past	Present					
1	Rice	*Oryza sativa*	Ranjit	Local	Lowland	3 bigha	Abundant	Abundant	May-June	Staple food		Stored in home	Local farmer
2	Rice	*Oryza sativa*	Joha	Local	Lowland	1 bigha	Abundant	Abundant	July	Staple food		Stored in home	Local farmer
3	Rice	*Oryza sativa*	Bora	Local	Lowland	1 bigha	Abundant	Abundant	July	Staple food	Used in making pitha	Stored in home	Local farmer
4	Rice	*Oryza sativa*	Masuri	Local	Lowland	3 bigha	Abundant	Abundant	May-June	Staple food		Stored in home	Local farmer
5	Rice	*Oryza sativa*	Bahadur	Local	Lowland	1 bigha	Less Cultivated	More Cultivated	April-June	Staple food		Stored in home	Local farmer
6	Rice	*Oryza sativa*	Bor dhan	Local	Lowland	1 bigha	Abundant	Scarce	April-July	Staple food		Stored in home	Local farmer
7	Rice	*Oryza sativa*	Raj dhan	Local	Lowland	1 bigha	Abundant	Scarce	June-July	Staple food		Stored in home	Local farmer
8	Rice	*Oryza sativa*	Hali dhan	Local	Lowland	1 bigha	Abundant	Scarce	June	Staple food		Stored in home	Local farmer
9	Rice	*Oryza sativa*	Manike Madhuri Joha	Local	Lowland	1 bigha	Not done	Scarce	June	Staple food		Stored in home	Local farmer

Format 1: Crop Plants: Vegetable

1	2	3	4	5	6	7		8	9	10	11
Sl.no	Crop	Scientific Name	Local Name	Variety	Landscape/ Habitat	Local Status		Cropping season	Uses	Source of Seeds/ Plants	Community/ Knowledge holder
						Past	Present				
1	Cabbage	*Brassica oleracea* var. *capitata.*	Bandha kobi	Local	farmland	Abundant	Abundant	Winter	Food/ Vegetable	Seeds saved at home	Local Farmer
2	Cauliflower	*Brassica oleracea* var. *botrytis*	Ful Kobi	Local	Farmland	Abundant	Abundant	Winter	Food/ Vegetable	Seeds saved at home	Local Farmer
3	Brinjal	*Solanum melongena*	Bengena	Local	Farmland	Abundant	Abundant	Summer	Food/ Vegetable	Seeds saved at home	Local Farmer
4	Fenugreek	*Trigonella foenum-graecum*	Methi	Local	Homestead	Abundant	Scarce	Summer	Food/ Vegetable	Seeds saved at home	Local Farmer
5	Spinach	*Spinacia oleracea*	Paleng	Local	Homestead	Abundant	Abundant	Winter	Food/ Vegetable	Seeds saved at home	Local Farmer
6	Black Mustard	*Brassica nigra*	Kola horiyoh	Local	Farmland	Abundant	Abundant	Winter	Food/ Vegetable	Seeds saved at home	Local Farmer
7	French bean	*Phaseolus vulgaris*	French bean	Local	Farmland	Abundant	Abundant	Winter	Food/ Vegetable	Seeds saved at home	Local Farmer

Format 1: Crop Plants: Vegetable

1	2	3	4	5	6	7		8	9	10	11
Sl.no	Crop	Scientific Name	Local Name	Variety	Landscape/ Habitat	Local Status		Cropping season	Uses	Source of Seeds/ Plants	Community/ Knowledge holder
						Past	Present				
8	Lady's finger	*Abelmoschus esculentus*	Bhindi	Local	Farmland	Abundant	Abundant	Summer	Food/ Vegetable	Seeds saved at home	Local Farmer
9	Coriander	*Coriandrum sativum*	Dhania	Local	Homestead	Abundant	Abundant	Winter	Food/ Vegetable	Seeds saved at home	Local Farmer
10	Tomato	*Lycopersicon* sp.	Tomato	Local	Homestead	Abundant	Abundant	Winter	Food/ Vegetable	Seeds saved at home	Local Farmer
11	Vegetable Banana	*Musa paradisiaca*	Kach kol	Local	Homestead	Abundant	Abundant	Summer	Food/ Vegetable	Seeds saved at home	Local Farmer
12	Dwarf banana	*Musa chinensis*	Jahaji kol	Local	Homestead	Abundant	Abundant	Summer	Food/ Vegetable	Seeds saved at home	Local Farmer
13	Betel nut	*Areca catechu*	Tamul	Local	Homestead	Abundant	Abundant	Summer	Food/ Vegetable	Seeds saved at home	Local Farmer
14	Turnip	*Brassica oleracea* var. *gongylodes*	Shalgam	Local	Farmland	Abundant	Abundant	Winter	Food/ Vegetable	Seeds saved at home	Local Farmer

Format 1: Crop Plants: Vegetable

1	2	3	4	5	6	7		8	9	10	11
Sl.no	Crop	Scientific Name	Local Name	Variety	Landscape/ Habitat	Local Status		Cropping season	Uses	Source of Seeds/ Plants	Community/ Knowledge holder
						Past	Present				
15	Chilli	*Capsicum annuum*	Capsicum	Local	Farmland	Less Cultivated	Less Cultivated	Winter	Food/ Vegetable	Seeds saved at home	Local Farmer
16	Radish	*Raphanus sativus*	Mula	Local	Farmland	Abundant	Abundant	Winter	Food/ Vegetable	Seeds saved at home	Local Farmer
17	Jackfruit	*Artocarpus heterophyllus*	Kothal	Local	Homestead	Abundant	Abundant	Summer	Food/ Vegetable	Seeds saved at home	Local Farmer
18	Bottle gourd	*Lagenaria siceraria*	Jati lau	Local	Farmland	Abundant	Abundant	Summer	Food/ Vegetable	Seeds saved at home	Local Farmer
19	Drumstick	*Moringa oleifera*	Sojina	Local	Homestead	Abundant	Abundant	Winter	Food/ Vegetable	Seeds saved at home	Local Farmer
20	Luffa	*Luffa acutangula*	Jika	Local	Farmland	Abundant	Abundant	Pre-monsoon	Food/ Vegetable	Seeds saved at home	Local Farmer
21	Squash	*Sechium edule*	Squash	Local	Farmland	Abundant	Abundant	Pre-monsoon	Food/ Vegetable	Seeds saved at home	Local Farmer

Photo Plates for Format 1: Crop plants: vegetables

Pani lau

Bengena

Shim

Horiyoh

Phool gobi

Dhania

Format 2: Fruit Plants

1	2	3	4	5	6	7		8	9	10	11
Sl.no	Plant	Scientific Name	Local Name	Variety	Landscape/ Habitat	Local Status		Source of Seeds/ Plants	Season of Fruiting	Uses	Community/ Knowledge holder
						Past	Present				
1	Jack fruit	*Artocarpus heterophyllus*	Kothal	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Fruit	Guijan village resident.
2	Litchi	*Litchi chinensis*	Lichu	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Fruit	Guijan village resident.
3	Burmese grape	*Baccaurea ramiflora*	Leteku	Local	Homestead	Abundant	Abundant	Seeds saved at home	Winter	Fruit	Guijan village resident.
4	Pineapple	*Ananas comosus*	Matikothal	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Fruit	Guijan village resident.
5	Pomelo	*Citrus grandis*	Robob tenga	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Fruit	Guijan village resident.
6	Elephant Apple	*Dillenia indica*	Outenga	Local	Homestead	Abundant	Abundant	Seeds saved at home	12 months	Fruit	Guijan village resident.
7	Coconut	*Cocos nucifera*	Narikol	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Fruit	Guijan village resident.
8	Mango	*Magnifera indica*	Aam	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Fruit	Guijan village resident.
9	Olive	*Elaeocarpus floribundus*	Jolphai	Local	Homestead	Abundant	Abundant	Seeds saved at home	Winter	Fruit	Guijan village resident.
10	Guava	*Psidium guajava*	Madhuri aam	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Fruit	Guijan village resident.
11	Chebulic myrobalan	*Terminalia chebula*	Hilika	Local	Homestead	Abundant	Abundant	Seeds saved at home	Winter	Fruit	Guijan village resident.
12	Orange	*Citrus reticulata*	Komola	Local	Homestead	Abundant	Abundant	Seeds saved at home	Winter	Fruit	Guijan village resident.

Format 2: Fruit Plants

1	2	3	4	5	6	7		8	9	10	11
Sl.no	Plant	Scientific Name	Local Name	Variety	Landscape/ Habitat	Local Status		Source of Seeds/ Plants	Season of Fruiting	Uses	Community/ Knowledge holder
						Past	Present				
13	Plum	*Prunus domestica*	Ahom Bogori	Local	Homestead	Abundant	Abundant	Seeds saved at home	Winter	Fruit	Guijan village resident.
14	Wood apple	*Aegle marmelos*	Bel	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Fruit	Guijan village resident.
15	Tamarind	*Tamarindus indica*	Teteli	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Fruit	Guijan village resident.
16	Lemon	*Citrus aurantifolia*	Kaji nemu	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Fruit	Guijan village resident.
17	Atlas	*Annona reticulata*	Atlas	Local	Homestead	Abundant	Abundant	Seeds saved at home	Winter	Fruit	Guijan village resident.
18	Dwarf banana	*Musa chinensis*	Jahaji kol	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Fruit	Guijan village resident.
19	Giant fruit banana	*Musa gigantea*	Bhim kol	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Fruit	Guijan village resident.
20	Star fruit	*Averrhoa carambola*	Kordoi	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Fruit/ Used in treating jaundice	Guijan village resident.
21	Black plum	*Syzygium cumini*	Kola jamun	Local	Homestead	Abundant	Abundant	Seeds saved at home	Winter	Fruit	Guijan village resident.
22	Lemon round	*Citrus limon*	Gol nemu	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Fruit	Guijan village resident.
23	Papaya	*Carica papaya*	Amita	Local	Homestead	Abundant	Abundant	Seeds stored at home	Summer	Fruit	Guijan village resident.

Format 3: Fodder crops

1	2	3	4	5	6	7		8	9	10
Sl.no	Plant	Scientific Name	Local Name	Variety	Landscape/ Habitat	Local Status		Source of Seeds/ Plants	Parts used	Community/ Knowledge holder
						Past	Present			
1	Bormuda grass	*Cynodon dactylon*	Dubori bon	Local	Agriculture field	Abundant	Abundant	Natural	Leaves and stem	Sanjib Gurung, Borguri.
2	Paddy	*Oryza sativa*	Kher	Local	Agriculture field	Abundant	Abundant	Natural	Leaves and stem	Sanjib Gurung, Borguri.
3	Lamb's quarters	*Chenopodium album*	Jilmil	Local	Agriculture field	Abundant	Abundant	Natural	Leaves and stem	Sanjib Gurung, Borguri.
4	Cabbage	*Brassica oleracea* var. *capitata*	Bondakobi	Local	Farmland	Abundant	Abundant	Seeds saved at home	Leaves	Sanjib Gurung, Borguri.
5	Maize	*Zea mays*	Bhutta	Local	Farmland	Abundant	Abundant	Seeds saved at home	Leaves and stem	Sanjib Gurung, Borguri.
6	Love grass	*Chrysopogon aciculatus*	Chor kata	Local	Agriculture field	Abundant	Abundant	Natural	Leaves and stem	Sanjib Gurung, Borguri.
7	Durun	*Leucas aspera*	Doron bon	Local	Agriculture field	Abundant	Abundant	Natural	Leaves and stem	Sanjib Gurung, Borguri.

Photo Plates for Format 3: Fodder crop

Durun bon

Kher

Ghum dham

Kata khutura

Dubori bon

Bondakobi

Format 4: Weeds

1	2	3	4	5	6	7	8		9	10	11	12
Sl.no	Plant	Scientific Name	Local Name	Affected Crop	Impact	Landscape/ Habitat	Local Status		Uses if any	Management options	Associated TK	Community/ Knowledge holder
							Past	Present				
1	Goose grass	*Eleusine indica*	Bobosa bon	Rice crop and vegetable	Suppress growth	Agricultural field	Abundant	Abundant		The plants are uprooted mechanically.		DAO
2	Nut grass	*Cyperus rotundus*	Keya bon	Rice crop and vegetable	Suppress growth	Agricultural field	Abundant	Abundant		The plants are uprooted mechanically.		DAO
3	Bormuda grass	*Cynodon dactylon*	Dubori bon	Rice crop and vegetable	Suppress growth	Agricultural field	Abundant	Abundant		The plants are uprooted mechanically.	The grass is used in religious ceremony.	DAO
4	Pig weed	*Chenopodium album*	Jilmil	Rice crop and vegetable	Suppress growth	Agricultural field	Abundant	Abundant		The plants are uprooted mechanically.		DAO
5	Knot weed	*Polygonum* sp.	Bih longoni	Rice crop and vegetable	Suppress growth	Agricultural field	Abundant	Abundant		The plants are uprooted mechanically.	Used in case of cut and wounds.	DAO
6	Goat weed	*Ageratum conyzoides*	Gondhuwa bon	Rice crop and vegetable	Suppress growth	Agricultural field	Abundant	Abundant		The plants are uprooted mechanically.	Used in case of cuts and wounds	DAO
7	Horse nettlee	*Solanum khasianum*	Kotahi bengena	Rice crop and vegetable	Suppress growth	Agricultural field	Abundant	Abundant		The plants are uprooted mechanically.		DAO
8	Water spinach	*Ipomoea aquatica*	Kolmou	Rice crop	Suppress growth	Agricultural field	Abundant	Abundant		The plants are uprooted mechanically.	The tender stems are eaten as food.	DAO

- Data provided by DAO- District Agriculture Office.

Format 5: Pests of Crops

1	2	3	4	5	6	7	8	9	10	11
Sl.no	Host	Insect/ Animal	Scientific Name	Local Name	Habitat	Time/ Season Of attack	Management mechanisms	Associated TK	Other details	Community/ Knowledge Holder
1	Rice	Yellow stem borer (Insect)	*Scirpophaga incertulas*	Mojakhua puk	Agriculture land	Pre-monsoon/ winter	Chlorpyrifos/ sulphon			DAO
2	Rice	Rice case worm (Insect)	*Nymphula depunctalis*	Tuplikota puk	Agriculture land	Pre-monsoon/ winter	Chlorpyrifos/ sulphon			DAO
3	Rice	Rice leaf folder (Insect)	*Cnaphalocrocis medinalis*	Pat merua	Agriculture land	Pre-monsoon/ winter	Chlorpyrifos/ sulphon			DAO
4	Rice	Gandhi bug (Insect)	*Leptocorisa acuta*	Gandhi puk	Agriculture land	Pre-monsoon/ winter	Chlorpyrifos/ sulphon			DAO
5	Rice	Rice swarming caterpillar (Insect)	*Spodoptera mauritia*	Bhur puk	Agriculture land	Pre-monsoon/ winter	Chlorpyrifos/ sulphon			DAO
6	Rabi crop	Shoot and fruit borer (Insect)	*Leucinodes* sp.	Kanda o phol bindhuwa puk	Agriculture land	Pre-monsoon/ winter	Malathion/ sulphon			DAO
7	Rabi crop	Aphid (Insect)	*Aphis spp.*	Muwa puk	Agriculture land	Pre-monsoon/ winter	Malathion/ sulphon			DAO
8	Rabi crop	Cut worm (Insect)	*Agrotis spp.*	Guri kota puk	Agriculture land	Pre-monsoon/ winter	Malathion/ sulphon			DAO

- Data provided by DAO- District Agriculture Office.

Format 6: Markets for Domesticated animals

1	2	3	4	5	6	7	8	9	10
Sl.no	Name of the Market & Location	Weekly (D)/ Fortnightly (D)/ Monthly (D)/ Biannual (M)/ Annual (M)/	Types of animals bought and Sold	Types and Average Number of Animals Transacted in a day	Places from Which Animals are brought	Places from Which Animals are sold/ transported	Name and location of Fish market	Types of Fish sold	Sources Of fish
1	Tinsukia deubariya bojar	Weekly (Sunday)	Poultry (hen and duck) pigeon, goat and pig.	40-50	Guijan, Kakopather, Rupai, Laipuli	Guijan, Kakopather, Tinsukia, Rupai Siding	Tinsukia main bazar	Row, katla, Mirika, Bhangon, Kuhi, Chengeli, cheng, Kawai, Darikana, Goroi	Wetland, Pond, Fishery.
2	Panitola bojar	Saturday	Poultry (hen and duck) pigeon and goat.	20-30	Panitola, Khamtigowali, Baruahola, Loonpuria	Panitola, Khamtigowali, Baruahola, Loonpuria	Tinukia College tiniali bojar	Row, katla, Mirika, Bhangon, Kuhi, Chengeli, cheng,	Wetland, Pond, Fishery.
3	Parshuram bojar, (Loonpuriya gaon).	Wednesday	Poultry (hen and duck) Pigeon and goat.	20-30	Panitola, Khamtigowali, Baruahola, Loonpuria	Panitola, Khamtigowali, Baruahola, Loonpuria			

Format 7: Peoples cape

1	2	3	4	5	6	7	8	9	10	11	12
Sl.no	Community & Population	Families & Major occupation	Sub-occupation	Depending Landscape	Major resources Accessed and Seasons of access	Landscape Management practices	Resource Management practices	Cast/ Tribe	Social Condition	Nature Of inhabitants	No. of House holds (HHs)
1	Nokhrek gaon and Boruahola community.	Farming	Selling of dairy products.	Agriculture	Paddy crops (May to July)	Crop rotation. Use of tractor and bullocks for plowing the land.	Rice cultivated is mostly used for own purpose and some of it are being sold in Deubariya bazar.		Most families remain together and cultivate together.		
2	Bihari community.	Farming	Selling of dairy products.	Agriculture	Vegetables (12 months)	Use their own lands for cultivating vegetables all year round.	Vegetables are mostly sold per day in wholesale markets.		The families cultivate vegetables all year round.		
3	Gottong gaon and Dhelakhat gaon community.	Fishing	Tourism for bird watching in the months of Dec to March.	Wetland	Indigenous Fishes All year round	Set up nets in between water hyacinths to catch fishes.	Most of the fishes are sold off in Guijan ghat every day.		The people are mostly dependent on the wetland for fishing. The local youths provide boat ride to bird watcher enthusiast.		

Format 8: Landscape

1	2			3	4	5	6	7	8	9	10	11	12	13
Sl.no	Major Landscapes			Sub-Landscapes	Features & Approx. area	Ownership	General Flora	General Fauna	User Groups	Management Practices	General Uses	Associated TK	Other details	Community accessed
	Agriculture land	Pond	Fallow Land											
1	Agriculture Land						Rice cropland.	Birds and mammals.			Cultivation for rice.			Nokhrek Assamese community.
2	Wetland						Grasses, trees, aquatic hydrophytes etc.	Aqutaic birds, fishes, mollucs, small mammals etc.			Fishing and tourism	Catching indigenous fishes being sold at local fish market, aquatic hydrophytes consumed as food.		Gottong gaon community.
3	Tea garden					Tea estate	Trees and tea crop	Birds, dragonflies etc.			Tea cultivation			
4	Forestland					Protected area	Trees, shrubs, climbers, ferns	Mammal, Birds, Reptiles etc.				Dried branches used as firewood. Plants used for medicinal purpose, as food etc.		Bherjan village community

Photo Plates for Format 8: Landscape

Tea garden

Forestland

Wetland

Cropland

Format 9: Waterscape

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Sl.no	Waterscape Element type	Sub-type	Features & Approx. Area	Ownership	General Flora	General Fauna	Major Uses	User Groups	Management Practices	General Uses	Associated TK	Other Details	Community accessed
1	Wetland		Presence of grassland and wetland together.		Trees, Grasses, aquatic hydrophytes etc.	Migratory birds, residential migratory birds, indigenous fishes, molluscs etc.	Fishing and tourism	Dhelakhat gaon and Gottong gaon community.	Several eco camps are being built for promoting tourism.			Maguri - Motapung beel is famous for migratory birds and butterflies.	
2	River		Brahmaputra and Dangori river		*Tamarix dioica,* Azar tree.	Fishes, river dolphin, aquatic birds and grassland birds etc.	Fishing and tourism			Fishing and religious ceremony.		The river serves as entry point to Dibru-Saikhowa NP.	
3	Ponds	Fishery			Aquatic hydrophytes like *Ipomoea aquatica* and water hyacinth.	Air breathing fishes, Minnows, Molluscs	Fish culture		Several types of fishes such as Row, Katla and many other commercial fishes are being cultured.			Fish seeds are brought from Kolkata. The fingerlings are reared here.	

Format 10: Soil type

1	2	3	4	5	6	7	8	9
Sl.no	Soil Type	Color &Texture	Features	Soil Management	Plants/ Crop suitable	Flora & Fauna	Associated TK	Other information
1	Sandy loam and clayey	Red, muga colored and yellow.		1) Use of limestone 2) Use of Zinc sulphate.	1) Rice cultivation 2) Pulses cultivation 3)Rabi crops	Fungus, Bacteria, Actinomycetes, myxomycetes etc.	1) Determination of quality of soil by the presence of Indian sorrel (Tengesi). 2)To test the quality of soil and note its change in color by spitting of tobacco with betel leaf	

- Data provided by DAO (District Agriculture Office).

DOMESTICATED BIODIVERSITY

Format 11: Fruit Trees

1	2	3	4	5	6	7		8	9	10	11	12	13
Sl.no	Plant	Local Name	Scientific Name	Variety	Landscape/ Habitat	Local Status		Source of Plants/ Seeds	Season of Fruiting	Uses	Associated TK	Other details/ market/ own use	Community/ Knowledge holder
						Past	Present						
1	Mango	Aam	*Magnifera indica*	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Taken as food	Used in treating dhatu	Own use	Gautam Das, Local resident.
2	Coconut	Narikol	*Cocos nucifera*	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Taken as food	Used in religious practice	Own use	Gautam Das, Local resident.
3	Guava	Modhuri aam	*Psidium guajava*	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Taken as food	Used as an ingredient to heal broken bone	Own use	Gautam Das, Local resident.
4	Plum	Ahom bogori	*Prunus domestica*	Local	Homestead	Abundant	Abundant	Seeds saved at home	Winter	Taken as food		Own use	Gautam Das, Local resident.
5	Lemon	Kaji nemu	*Citrus aurantifolia*	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Taken as food		Own use	Gautam Das, Local resident.
6	Star fruit	Kordoi	*Averrhoa carambola*	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Taken as food	Used in treating jaundice.	Own use	Gautam Das, Local resident.
7	Elephant Apple	*Dillenia indica*	Outenga	Local	Homestead	Abundant	Abundant	Seeds saved at home	12 months	Taken as food		Own use	Gautam Das, Local resident.
8	Jack fruit	Kothal	*Artocarpus heterophyllus*	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Taken as food		Own use	Gautam Das, Local resident.
9	Olive	Jolphai	*Elaeocarpus floribundus*	Local	Homestead	Abundant	Abundant	Seeds saved at home	Winter	Taken as food		Own use Own use	Gautam Das, Local resident.
10	Dwarf banana	Jahaji kol	*Musa chinensis*	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Taken as food		Own use	Gautam Das, Local resident.
11	Giant banana	Bhim kol	*Musa gigantea*	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Taken as food		Own use	Gautam Das, Local resident.
12	Pine apple	Matikotha l	*Ananas comosus*	Local	Homestead	Abundant	Abundant	Seeds saved at home	Summer	Taken as food		Own use	Gautam Das, Local resident.

Format 12: Medicinal Plants

1	2	3	4	5	6	7		8	9	10	11
Sl.no	Plant Type	Local Name	Scientific Name	Variety	Landscape/ Habitat	Local Status		Source of Plants/ Seeds	Part Used	Associated TK	Community/ Knowledge holder
						Past	Present				
1	Vine	Bhaedailota	*Paederia foetida*	Wild	Wild	Abundant	Abundant	Homestead/ wild	Leaf/ stem	Digestion disorder	Smt. Punuki Das, Traditional Healer.
2	Shrub	Boga-bahak	*Justicia adhatoda*	Local	Homestead	Abundant	Abundant	Homestead	Leaf	Cough, asthma treatment.	Smt. Punuki Das, Traditional Healer.
3	Shrub	Bongali era	*Jatropha curcas*	Local	Homestead	Abundant	Abundant	Homestead	Bark	Pyorrhoea	Smt. Punuki Das, Traditional Healer.
4	Tree	Modhuri aam	*Psidium guajava*	Local	Homestead	Abundant	Abundant	Homestead	Leaf	Dysentery	Smt. Punuki Das, Traditional Healer.
5	Shrub	Jomlakhuti	*Cheilocostus speciosus*	Local	Wild	Abundant	Abundant	Wild	Leaf	Jaundice	Smt. Punuki Das, Traditional Healer.
6	Shrub	Jetulipoka	*Rubus alceifolius*	Local	Homestead	Abundant	Abundant	Homestead	Leaf	Gastric	Smt. Punuki Das, Traditional Healer.
7	Tree	Sajina	*Moringa oleifera*	Local	Homestead	Abundant	Abundant	Homestead	Bark	Malaria	Smt. Punuki Das, Traditional Healer.
8	Shrub	Kukurathengia	*Leea asiatica*	Wild	Wild	Abundant	Abundant	Wild	Root	Pneumonia	Smt. Punuki Das, Traditional Healer.
9	Tree	Outenga	*Dillenia indica*	Local	Homestead	Abundant	Abundant	Homestead	Seed	Dhatu	Smt. Punuki Das, Traditional Healer.
10	Climber	Harjura lota	*Cissus quadrangularis*	Wild	Forest	Abundant	Abundant	Wild	Leaf	Heals broken bones	Smt. Punuki Das, Traditional Healer.
11	Fern	Bilomini	*Christella parasitica*	Wild	Forest	Abundant	Abundant	Wild	Fern	Heals broken bones	Smt. Punuki Das, Traditional Healer.

Format 12: Medicinal Plants

1	2	3	4	5	6	7		8	9	10	11
Sl.no	Plant Type	Local Name	Scientific Name	Variety	Landscape/ Habitat	Local Status		Source of Plants/ Seeds	Part Used	Associated TK	Community/ Knowledge holder
						Past	Present				
12	Tree	Mesaki	*Sarcochlamys pulcherrima*	Wild	Wild	Abundant	Abundant	Wild	Bark and leaf	Heals broken bones	Smt. Punuki Das, Guijan Gaon.
13	Climber	Tikoniborua	*Smilax zeylanica*	Wild	Local	Abundant	Abundant	Wild	Leaf	Heals broken bones	Smt. Punuki Das, Guijan Gaon.
14	Tree	Arjun	*Terminalia arjuna*	Local	Homestead	Abundant	Abundant	Homestead	Bark	Heart Ache	Smt. Punuki Das, Guijan Gaon.
15	Herb	Pategoja	*Bryophyllum pinnatum*	Local	Homestead	Abundant	Abundant	Homestead	Leaf	Healing broken bone	Smt. Punuki Das, Guijan Gaon.
16		Kopaguti		Local	Wild	Abundant	Abundant	Wild	Leaf	Asthma	Smt. Upama Das, Baruahola.
17	Herb	Kukurhuta	*Blumea lacera*	Wild	Wild	Abundant	Abundant	Wild	Leaf	Kidney stone	Smt. Upama Das, Baruahola.
18	Climber	Mahudi Lota	*Croton joufra*	Local	Homestead	Abundant	Abundant	Wild	Entire part	Pneumonia	Smt. Upama Das, Baruahola.
19		Sisimora		Local	Homestead	Abundant	Abundant	Homestead	Apex	Pneumonia	Smt. Upama Das, Baruahola.
20	Herb	Seni goz		Local	Homestead	Abundant	Abundant	Homestead	Leaf	Used in treating Kesumeria	Smt. Upama Das, Baruahola.
21	Corm	Chema kosu		Local	Homestead	Abundant	Abundant	Homestead	Corm	Menstrual cramps	Smt. Upama Das, Baruahola.
22	Herb	Bor manimuni	*Centella asiatica*	Local	Homestead	Abundant	Abundant	Homestead	Leaves and stem	Digestive problems	Smt. Upama Das, Baruahola.

Format 12: Medicinal Plants

1	2	3	4	5	6	7		8	9	10	11
SL.no	Plant Type	Local Name	Scientific Name	Variety	Landscape/ Habitat	Local Status		Source of Plants/ Seeds	Part Used	Associated TK	Community/ Knowledge holder
						Past	Present				
1	Herb	Dhatura	*Datura* sp.	Local	Homestead	Abundant	Abundant	Homestead	Leaf	Healing broken bones.	Shri. Ganesh Das, Loonpuria gaon.
2		Kopoudhekia		Local	Homestead	Abundant	Abundant	Homestead	Leaf	Healing broken bones.	Shri. Ganesh Das, Loonpuria gaon.
3	Herb	Tokoria alu		Local	Homestead	Abundant	Abundant	Homestead	Leaf	Scar and scabies.	Shri. Ganesh Das, Loonpuria gaon.
4		Bihguti		Local	Homestead	Abundant	Abundant	Wild		Asthma	Shri. Ganesh Das, Loonpuria gaon.
5	Tree	Bogori	*Zizyphus jujuba*	Local	Homestead	Abundant	Abundant	Homestead	Bark	Piles	Shri. Ganesh Das, Loonpuria gaon.
6	Herb	Tulsi	*Ocimum tenuiflorum*	Local	Homestead	Abundant	Abundant	Homestead	Root	Epilepsy	Shri. Ganesh Das, Loonpuria gaon.
7		Futukola	*Melastoma malabathricum*	Local	Wild	Abundant	Abundant	wild	Root	Asthma	Shri. Ganesh Das, Loonpuria gaon.
8	Tree	Modhuri aam	*Psidium guajava*	Local	Homestead	Abundant	Abundant	Wild	Leaf apex	Pneumonia	Shri.Ganesh Das, Loonpuria gaon.
9	Herb	Pani nohoru		Local	Homestead	Abundant	Abundant	Wild		Cough	Shri. Ganesh Das, Loonpuria gaon.
10	Grass	Kerabon		Local	Homestead	Abundant	Abundant	Homestead	Whole plant	Pneumonia	Shri. Ganesh Das, Loonpuria gaon.

Photo Plates for Format 12: Medicinal Plants

Tikoniborua

Bilomoni

Bor manimuni

Heguni lota

Mermeri lota

Jomlakhuti

Format 13: Ornamental Plants

1	2	3	4	5	6	7	8	9	10	11
Sl.no	Plant Type	Local name	Scientific Name	Variety	Source of Plants/ Seeds	Commercial/ Non-Commercial	Uses	Associated TK	Other details/ market/ own use	Community/ Knowledge holder
1	Herb	Gulap phool	*Rosa* sp.	Local	Seeds saved at home	Commercial	Used to moisturize skin	Applying rose water stop inflammation of eyes.	Own use	
2	Herb	Aloe vera	*Aloe vera*	Local	Seeds saved at home	Non-commercial	Used to moisturize skin	It also promotes smooth hair and stop ageing of skin.	Own use	
3	Herb	Datura	*Datura* sp.	Local	Seeds saved at home	Non-commercial	Decorative purpose	Used in healing broken bone		
4	Herb	Bougainvillea			Nursery	Commercial	Decorative purpose		Market use	
5	Herb	Chandramallika	*Chrysanthemum indicum*	Local	Nursery	Commercial	Decorative purpose		Market use	
6	Herb	Joba phool	*Hibiscus rosa- sinensis*	Local	Seeds saved at home	Non-Commercial	In religious ceremony	Used in treating Epilepsy	Own use	
7	Herb	Dalia phool	*Dahlia* sp.		Nursery	Commercial	Decorative purpose		Market use	
8	Herb	Periwinkle	*Catharanthus roseus*		Nursery/ market	Commercial	Decorative purpose	Used in treating Diabetes	Market use	
9	Palm		*Bismarckia nobilis*		Nursery	Commercial	Decorative purpose			
10	Herb		*Aglaonema* sp.		Nursery	Commercial	Decorative purpose		Market use	
11	Herb		*Dracaena brauni*		Nursery/ market	Commercial	Decorative purpose		Market use	
12	Herb		*Dracaena reflexa*		Nursey/ market	Commercial	Decorative purpose		Market use	

Format 13: Ornamental Plants

1	2	3	4	5	6	7	8	9	10	11
Sl.no	Plant Type	Local name	Scientific Name	Variety	Source of Plants/ Seeds	Commercial/ Non-Commercial	Uses	Associated TK	Other details/ market/ own use	Community/ Knowledge holder
1	Herb	Genda phool	*Tagetes* sp.	Local	Seeds saved at home	Non-commercial	Religious practice	Used in cuts and bruises	Market use/ own use	
2	Herb	Rangol phool	*Ixora coccinea*	Local	Seeds saved at home	Non-commercial			Own use	
3	Herb	Togor phool	*Tabernaemontana divaricata*	Local	Seeds saved at home	Non-commercial			Own use	
4	Herb	Aparajita	*Clitoria ternatea*	Local	Seeds saved at home	Non-commercial			Own use	
5	Tree	Sewali phool	*Nyctanthes arbor-tristis*	Local	Seeds saved at home	Non-commercial	Food and ornamental purpose	Religious practice	Own use	
6	Herb	Tulsi	*Ocimum tenuiflorum*	Local	Seeds saved at home	Non-commercial	Religious practice		Own use	
7	Tree	Jetuka	*Lawsonia inermis*	Local	Seeds saved at home	Non-commercial	Bridal make up	Hair treatment, used in treating skin diseases. Used during Bihu	Own use	
8	Palm		*Dypsis lutescens*		Nursey	Commercial			Own use	
9	Herb		*Sansevieria trifasciata*		Nursery	Commercial			Own use	

Photo Plates for Format 13: Ornamental Plants

Togor phool

Dahlia

Periwinkle

Areca palm

Sewali

Tulsi

Format 14: Timber Plants

1	2	3	4	5	6		7	8	9
Sl.no	Plant Type	Local Name	Scientific Name	Habitat	Local Status		Wild/ Home-garden	Associated TK	Community/ Knowledge holder
					Past	Present			
1	Tree	Segun	*Tectona grandis*	Forestland	Abundant	Abundant	Wild		Local resident, Bherjan gaon.
2	Tree	Aazar	*Lagerstroemia speciosa*	Homestead/ Forestland	Abundant	Abundant	Home garden		Local resident, Bherjan gaon.
3	Tree	Hollong	*Dipterocarpus retusus*	Forestland	Abundant	Abundant	Wild	Used in treating variety of diseases.	Local resident, Bherjan gaon.
4	Tree	Semul	*Bombax ceiba*	Homestead	Abundant	Abundant	Homestead		Local resident, Bherjan gaon.
5	Tree	Som	*Machilus bombycina*	Forestland	Abundant	Scarce	Wild/ homestead	Rearing silkworm	Local resident, Bherjan gaon.
6	Tree	Madar	*Calotropis gigantea*	Forestland/ Homeland	Abundant	Scarce	Homestead/ Wild		Local resident, Bherjan gaon.
7	Tree	Urium	*Bischofia javanica*	Forestland	Abundant	Scarce	Wild		Local resident, Bherjan gaon.
8	Tree	Udal	*Sterculia villosa*	Forestland			Wild		Local resident, Bherjan gaon.
9	Tree	Arjun	*Terminalia arjuna*	Homestead	Abundant	Abundant	Homestead		Local resident, Bherjan gaon.
10	Tree	Barun	*Crateva nurvala*	Forestland	Abundant	Scarce	Forestland	One of the chief ingredient to treat dog bite.	Local resident, Bherjan gaon.
11	Tree	Sissoo	*Dalbergia sisso*	Forestland			Wild		Local resident, Bherjan gaon.
12	Tree	Kothal	*Artocarpus heterophyllus*	Homestead	Abundant	Abundant	Homestead	Used as food and vegetable.	Local resident, Bherjan gaon.

Format 15: Domesticated Animals

1	2	3	4	5	6	7	8		9	10	11	12	13
Sl.no	Animal Type	Local Name	Scientific Name	Breed	Features	Method of Keeping	Local Status		Uses	Associated TK	Commercial rearing	Other details Including products & Services	Community/ Knowledge holder
							Past	Present					
1	Cow	Goru	*Bos taurus indicus*	Local		Cow shed/ barn	Abundant	Abundant	Used for milk and for ploughing		Yes, depends upon its age and body structure.	Various dairy products.	
2	Cow	Goru	*Bos taurus indicus*	Local		Cow shed/ barn	Abundant	Abundant	Used for milk and for ploughing		Yes, depends upon its age and body structure.	Various dairy products.	
3	Cow	Goru	*Bos taurus indicus*	Local		Cow shed/ barn	Abundant	Abundant	Used for milk and for ploughing		Yes, depends upon its age and body structure.	Various dairy products.	
4	Buffalo	Moh	*Bos taurus indicus*	Local		Cow shed/ barn	Abundant	Abundant	Ploughing and for milk.		Yes, depends upon its age and body structure.	Various Dairy products.	
5	Goat	Sagoli	*Capra aegagrus hircus*	Local		Sang ghar	Abundant	Abundant	Milk and for meat.		Yes	Various Dairy products and for its meat.	
6	Duck	Cina Hah	*Cairina moschata*	Local		Small shed	Abundant	Abundant	Meat.		Yes, sold at deubariya bazar.		
7	Duck	Pati Hah	*Anas platyrhynchos domesticus*	Local		Small shed	Abundant	Abundant	Meat and eggs.		Yes, sold at deubariya bazar.		
8	Pig	Gahori	*Sus scrofus domesticus*	Local		Bamboo shed/ fence.	Abundant	Abundant	Meat.		Yes.		

Format 16: Culture Fisheries

1	2	3	4	5	6	7		8	9	10
Sl.no	Fish Type	Local Name	Scientific Name	Variety	Waterscape (Pond/Bheri/ talao)	Local Status		Uses	Commercial rearing	Community/ Knowledge holder
						Past	Present			
1	Indian Major Carps	Rou	*Labeo rohita*	Local	Pond	Abundant	Abundant	Consumed as food	Yes	DFDO
2	Indian Major Carps	Mirika	*Cirrhinus mrigala*	Local	Pond	Abundant	Abundant	Consumed as food	Yes	DFDO
3	Indian Major Carps	Katla	*Catla catla*	Local	Pond	Abundant	Abundant	Consumed as food	Yes	DFDO
4	Exotic Carps	Grass carp	*Ctenopharyngodon idella*	Local	Pond	Abundant	Abundant	Consumed as food	Yes	DFDO
5	Exotic Carps	Silver Carp	*Hypophthalmichthys molitrix*	Local	Pond	Abundant	Abundant	Consumed as food	Yes	DFDO
6	Exotic Carps	Common carp	*Cyprinus carpio*	Local	Pond	Abundant	Abundant	Consumed as food	Yes	DFDO
7	Minor Carps	Mali	*Labeo calbasu*	Local	Pond	Abundant	Abundant	Consumed as food	Yes	DFDO
8	Minor Carps	Kurhi	*Labeo gonius*	Local	Pond	Abundant	Abundant	Consumed as food	Yes	DFDO
9	Minor Carps	Bhangon	*Labeo bata*	Local	Pond	Abundant	Abundant	Consumed as food	Yes	DFDO
10	Knife fish	Chital	*Notopterus chitala*	Local	Pond	Abundant	Abundant	Consumed as food	Yes	DFDO
11	Air breathing fish	Singhi	*Heteropneustes fossilis*	Local	Pond	Abundant	Abundant	Consumed as food	Yes	DFDO
12	Air breathing fish	Magur	*Clarias batrachus*	Local	Pond	Abundant	Abundant	Consumed as food	Yes	DFDO

- Data provided by DFDO - District Fishery Development Office

Format 16: Culture Fisheries

1	2	3	4	5	6	7	8		9	10	11
Sl.no	Fish Type	Local Name	Scientific Name	Variety	Features	Waterscape (Pond/Bheri/ talao)	Local Status		Uses	Commercial rearing	Community/ Knowledge holder
							Past	Present			
1	Minor carp	Lachim	*Cirrhinus reba*	Local		Pond	Abundant	Abundant	Consumed as food	Yes	Swapan Saha
2	Minor carp	Puthi	*Puntius chola*	Local		Pond	Abundant	Abundant	Consumed as food	Yes	Swapan Saha
3	Minor carp	Boirali	*Aspidoparia morar*	Local		Pond	Abundant	Abundant	Consumed as food	Yes	Swapan Saha
4	Minor carp	Cheniputhi	*Puntius sarana*	Local		Pond	Abundant	Abundant	Consumed as food	Yes	Swapan Saha
5	Cat fish	Pabhoh	*Ompok pabo*	Local		Pond	Abundant	Abundant	Consumed as food	Yes	Swapan Saha
6	Cat fish	Barali	*Wallago attu*	Local		Pond	Abundant	Abundant	Consumed as food	Yes	Swapan Saha
7	Air breathing fish	Tengra	*Mystus vittatus*	Local		Pond	Abundant	Abundant	Consumed as food	Yes	Swapan Saha
8	Murrels	Cheng	*Channa barca*	Local		Pond	Abundant	Abundant	Consumed as food	Yes	Swapan Saha
9	Murrels	Sal	*Channa marulius*	Local		Pond	Abundant	Abundant	Consumed as food	Yes	Swapan Saha
10	Murrels	Chengeli	*Channa stewartii*	Local		Pond	Abundant	Abundant	Consumed as food	Yes	Swapan Saha
11	Murrels	Goroi	*Channa punctatus*	Local		Pond	Abundant	Abundant	Consumed as food	Yes	Swapan Saha
12	Murrels	Sol	*Channa striatus*	Local		Pond	Abundant	Abundant	Consumed as food	Yes	Swapan Saha

Photo Plates for Format 16: Culture fishes

Borioli

Ari, Singhora, Puthi

Lachim

Puthi

Format 17: Markets/ Fairs for Domesticated Animals, Medicinal Plants and other Products

1	2	3	4	5	6	7	8	9	10	11
Sl.no	Name of the weekly Market/Fair	Location	Weekly/ Forth nightly & others Bi-annual/ Annual	Variety	Source of Plants/ Seeds	Commercial/ Non-Commercial	Uses	Associated TK	Other details/ market/ own use	Community/ Knowledge holder
1		Baruahola (Pokabum gaon).			The plants that are available in the village.		Used as traditional herbal medicine.	The medicines are against variety of diseases such as Pneumonia, Gastric disorder, Asthma etc.	The medicines are kept near a grocery shop. Own use.	Smt. Upama Das.

WILD BIODIVERSITY

Format 18: Trees, Shrubs, Herbs, Tubers, Grasses, Climbers, Lichens & Fungi

1	2	3	4	5	6	7		8	9	10	11
Sl.no	Plant Type	Local Name	Scientific Name	Habit	Habitat	Local Status		Commercial/ Own use	Part Collected	Associated TK	Community/ Knowledge holder
						Past	Present				
1	Tree	Ajhar	*Lagerstroemia speciosa*		Tropical evergreen, semi evergreen forest and deciduous forest.						
2	Tree	Aam	*Mangifera indica*		Tropical evergreen, semi evergreen forest and deciduous forest.						
3	Tree	Amari	*Aglaia hiernii*		Tropical evergreen, semi evergreen forest and deciduous forest.						
4	Tree	Amol	*Horsfieldia kingia*		Tropical evergreen, semi evergreen forest and deciduous forest.						
5	Tree	Amora	*Spondius pinnata*		Tropical evergreen, semi evergreen forest and deciduous forest.						
6	Tree	Amsia	*Drimycarpus racemosus*		Tropical evergreen, semi evergreen forest and deciduous forest.						
7	Tree	Badam	*Mansonia dipikae*		Tropical evergreen, semi evergreen forest and deciduous forest.						
8	Tree	Baji Ou	*Dillenia scarbrella*		Tropical evergreen, semi evergreen forest and deciduous forest.						
9	Tree	Bandardima	*Dysoxylum binectarferum*		Tropical evergreen, semi evergreen forest and deciduous forest.						
10	Tree	Barhamthuri	*Magnolia hodgsonii*		Tropical evergreen, semi evergreen forest and deciduous forest.						

Format 18: Trees, Shrubs, Herbs, Tubers, Grasses, Climbers, Lichens & Fungi

1	2	3	4	5	6	7		8	9	10	11
Sl.no	Plant Type	Local Name	Scientific Name	Habit	Habitat	Local Status		Commercial/ Own use	Part Collected	Associated TK	Community/ Knowledge holder
						Past	Present				
11	Tree	Barun	*Crateva nurvala*		Tropical evergreen, semi evergreen forest and deciduous forest.						
12	Tree	Bhatghila	*Oroxylum indicum*		Tropical evergreen, semi evergreen forest and deciduous forest.						
13	Tree	Bhe	*Salix tetrasperma*		Tropical evergreen, semi evergreen forest and deciduous forest.						
14	Tree	Bhelkor	*Trewai nudiflora*		Tropical evergreen, semi evergreen forest and deciduous forest.						
15	Tree	Bhelu	*Tetrameles nudiflora*		Tropical evergreen, semi evergreen forest and deciduous forest.						
16	Tree	Bhomlati	*Symplocos spicata*		Tropical evergreen, semi evergreen forest and deciduous forest.						
17	Tree	Bhomora, Bahera	*Terminalia belerica*		Tropical evergreen, semi evergreen forest and deciduous forest.						
18	Tree	Bogijam	*Eugenia jambos*		Tropical evergreen, semi evergreen forest and deciduous forest.						
19	Tree	Bogipoma	*Chikrassia tabularis*		Tropical evergreen, semi evergreen forest and deciduous forest.						
20	Tree	Brajanali	*Zanthoxylum rhetsa*		Tropical evergreen, semi evergreen forest and deciduous forest.						

Format 18: Trees, Shrubs, Herbs, Tubers, Grasses, Climbers, Lichens & Fungi

1	2	3	4	5	6	7		8	9	10	11
SL.no	Plant Type	Local Name	Scientific Name	Habit	Habitat	Local Status		Commercial/ Own use	Part Collected	Associated TK	Community/ Knowledge holder
						Past	Present				
21	Tree	Bola	*Morus laevigata*		Tropical evergreen, semi evergreen forest and deciduous forest.						
22	Tree	Bon-am	*Mangifera sylvatica*		Tropical evergreen, semi evergreen forest and deciduous forest.						
23	Tree	Bon-bagari	*Zizyphus rugosas*		Tropical evergreen, semi evergreen forest and deciduous forest.						
24	Tree	Bob-huala	*Alscodaphne andersonii*		Tropical evergreen, semi evergreen forest and deciduous forest.						
25	Tree	Bob-jolokia	*Cryptocarya amygdalina*		Tropical evergreen, semi evergreen forest and deciduous forest.						
26	Tree	Bon-pitha	*Donella roxburghii*		Tropical evergreen, semi evergreen forest and deciduous forest.						
27	Tree	Bor-pat	*Ailanthus grandis*		Tropical evergreen, semi evergreen forest and deciduous forest.						
28	Tree	Bor-pat	*Garcinia pedunculata*		Tropical evergreen, semi evergreen forest and deciduous forest.						
29	Tree	Bual	*Cordial dichotoma*		Tropical evergreen, semi evergreen forest and deciduous forest.						
30	Tree	Chalmugra	*Hydnocarpus kurzii*		Tropical evergreen, semi evergreen forest and deciduous forest.						

Format 18: Trees, Shrubs, Herbs, Tubers, Grasses, Climbers, Lichens & Fungi

1	2	3	4	5	6	7		8	9	10	11
Sl.no	Plant Type	Local Name	Scientific Name	Habit	Habitat	Local Status		Commercial/ Own use	Part Collected	Associated TK	Community/ Knowledge holder
						Past	Present				
31	Tree	Dalchini	*Cinnamomum zeylanicum*		Tropical evergreen, semi evergreen forest and deciduous forest.						
32	Tree	Dewacham	*Artocarpus lakoocha*		Tropical evergreen, semi evergreen forest and deciduous forest.						
33	Tree	Dhuna, Dhup	*Canarium bengalenses*		Tropical evergreen, semi evergreen forest and deciduous forest.						
34	Tree	Dimoru	*Ficus hispida*		Tropical evergreen, semi evergreen forest and deciduous forest.						
35	Tree	Galranga	*Elaeocarpus rugosus*		Tropical evergreen, semi evergreen forest and deciduous forest.						
36	Tree	Gendhelipoma	*Dysoxylum alliarium*		Tropical evergreen, semi evergreen forest and deciduous forest.						
37	Tree	Gohora	*Premna bengalensis*		Tropical evergreen, semi evergreen forest and deciduous forest.						
38	Tree	Gaharisopa	*Magnolia griffithii*		Tropical evergreen, semi evergreen forest and deciduous forest.						
39	Tree	Gomari	*Gmelina arborea*		Tropical evergreen, semi evergreen forest and deciduous forest.						
40	Tree	Gonsorai	*Cinnamomum glaucescens*		Tropical evergreen, semi evergreen forest and deciduous forest.						

Format 18: Trees, Shrubs, Herbs, Tubers, Grasses, Climbers, Lichens & Fungi

1	2	3	4	5	6	7		8	9	10	11
SL.no	Plant Type	Local Name	Scientific Name	Habit	Habitat	Local Status		Commercial/ Own use	Part Collected	Associated TK	Community/ Knowledge holder
						Past	Present				
41	Tree	Ghora, Makarisal, Nagabhe	*Schima wallichii*		Tropical evergreen, semi evergreen forest and deciduous forest.						
42	Tree	Haludsopa	*Adina oligocephala*		Tropical evergreen, semi evergreen forest and deciduous forest.						
43	Tree	Haludsaki	*Endosperum chinense*		Tropical evergreen, semi evergreen forest and deciduous forest.						
44	Tree	Hatipolia	*Pterospermum acerifolium*		Tropical evergreen, semi evergreen forest and deciduous forest.						
45	Tree	Hengunia	*Meliosma pinnata*		Tropical evergreen, semi evergreen forest and deciduous forest.						
46	Tree	Hingori	*Castanopsis indica*		Tropical evergreen, semi evergreen forest and deciduous forest.						
47	Tree	Hilikha	*Terminalia chebula*		Tropical evergreen, semi evergreen forest and deciduous forest.						
48	Tree	Holock	*Terminali myriocarpa*		Tropical evergreen, semi evergreen forest and deciduous forest.						

Format 18: Trees, Shrubs, Herbs, Tubers, Grasses, Climbers, Lichens & Fungi

1	2	3	4	5	6	7		8	9	10	11
Sl.no	Plant Type	Local Name	Scientific Name	Habit	Habitat	Local Status		Commercial/ Own use	Part Collected	Associated TK	Community/ Knowledge holder
						Past	Present				
49	Tree	Holong	*Dipterocarpus retusus*		Tropical evergreen, semi evergreen forest and deciduous forest.						
50	Tree	Jalpai	*Elaeocarpus floribundus*		Tropical evergreen, semi evergreen forest and deciduous forest.						
51	Tree	Jamuk	*Syzygium cumini*		Tropical evergreen, semi evergreen forest and deciduous forest.						
52	Tree	Jamuk	*Syzygium cumini*		Tropical evergreen, semi evergreen forest and deciduous forest.						
53	Tree	Jawa, Jhawa	*Holigarna longifolia*		Tropical evergreen, semi evergreen forest and deciduous forest.						
54	Tree	Jaglo, Morolia	*Macaranga denticulate*		Tropical evergreen, semi evergreen forest and deciduous forest.						
55	Tree	Jia	*Lannea grandis*		Tropical evergreen, semi evergreen forest and deciduous forest.						
56	Tree	Jinari, Kathbhaluka	*Podocarpus neriifolia*		Tropical evergreen, semi evergreen forest and deciduous forest.						
57	Tree	Joba-Hingari	*Sloanea assamica*		Tropical evergreen, semi evergreen forest and deciduous forest.						
58	Tree	Jutuli	*Altingia excelsa*		Tropical evergreen, semi evergreen forest and deciduous forest.						

Format 18: Trees, Shrubs, Herbs, Tubers, Grasses, Climbers, Lichens & Fungi

1	2	3	4	5	6	7		8	9	10	11
Sl.no	Plant Type	Local Name	Scientific Name	Habit	Habitat	Local Status		Commercial/ Own use	Part Collected	Associated TK	Community/ Knowledge holder
						Past	Present				
59	Tree	Karipan, Kharipati Dimoru	*Ficus nervosa*		Tropical evergreen, semi evergreen forest and deciduous forest.						
60	Tree	Kathal	*Artocarpus integrifolius*		Tropical evergreen, semi evergreen forest and deciduous forest.						
61	Tree	Kathalsopa	*Michelia manii*		Tropical evergreen, semi evergreen forest and deciduous forest.						
62	Tree	Kathalsopa	*Michelia manii*		Tropical evergreen, semi evergreen forest and deciduous forest.						
63	Tree	Khokan	*Duabanga grandiflora*		Tropical evergreen, semi evergreen forest and deciduous forest.						
64	Tree	Khorikadewa	*Artocarpus gomezianus*		Tropical evergreen, semi evergreen forest and deciduous forest.						
65	Tree	Khorika sopa	*Magnolia baillonii*		Tropical evergreen, semi evergreen forest and deciduous forest.						
66	Tree	Koliori	*Mitrephora tomentosa*		Tropical evergreen, semi evergreen forest and deciduous forest.						
67	Tree	Borkoliori	*Ploylthia simiarum*		Tropical evergreen, semi evergreen forest and deciduous forest.						
68	Tree	Koroi	*Albizza procera*		Tropical evergreen, semi evergreen forest and deciduous forest.						

Format 18: Trees, Shrubs, Herbs, Tubers, Grasses, Climbers, Lichens & Fungi

1	2	3	4	5	6	7		8	9	10	11
Sl.no	Plant Type	Local Name	Scientific Name	Habit	Habitat	Local Status		Commercial/ Own use	Part Collected	Associated TK	Community/ Knowledge holder
						Past	Present				
69	Tree	Kuhir	*Bridelia retusa*		Tropical evergreen, semi evergreen forest and deciduous forest.						
70	Tree	Kurial, Kanchan	*Bauhinia purpurnea*		Tropical evergreen, semi evergreen forest and deciduous forest.						
71	Tree	Leluk	*Beilschmiedia brandisii*		Tropical evergreen, semi evergreen forest and deciduous forest.						
72	Tree	Lamtem	*Gynocardia odorata*		Tropical evergreen, semi evergreen forest and deciduous forest.						
73	Tree	Leteku	*Baccaurea ramiflora*		Tropical evergreen, semi evergreen forest and deciduous forest.						
74	Tree	Lewa	*Engelhardtia spicata*		Tropical evergreen, semi evergreen forest and deciduous forest.						
75	Tree	Madar	*Erythrina stricta*		Tropical evergreen, semi evergreen forest and deciduous forest.						
76	Tree	Maiphak	*Evodia meliaefolia*		Tropical evergreen, semi evergreen forest and deciduous forest.						
77	Tree	Mekai	*Shorea assamica*		Tropical evergreen, semi evergreen forest and deciduous forest.						
78	Tree	Medelua, Mouhita	*Dalbergia assamica*		Tropical evergreen, semi evergreen forest and deciduous forest.						
79	Tree	Mekahi	*Phoebe cooperiana*		Tropical evergreen, semi evergreen forest and deciduous forest.						

Format 18: Trees, Shrubs, Herbs, Tubers, Grasses, Climbers, Lichens & Fungi

1	2	3	4	5	6	7		8	9	10	11
Sl.no	Plant Type	Local Name	Scientific Name	Habit	Habitat	Local Status		Commercial/ Own use	Part Collected	Associated TK	Community/ Knowledge holder
						Past	Present				
80	Shrubs	Bahaka	*Justicia adhatoda*		Tropical evergreen, semi evergreen forest and deciduous forest.						
81	Shrubs	Betibah	*Bambusa mastersii*		Tropical evergreen, semi evergreen forest and deciduous forest.						
82	Shrubs	Bhang	*Cannabis sativa*		Tropical evergreen, semi evergreen forest and deciduous forest.						
83	Shrubs	Bhekuri	*Solanum indicum*		Tropical evergreen, semi evergreen forest and deciduous forest.						
84	Shrubs	Bogitara	*Alpinia nigra*		Tropical evergreen, semi evergreen forest and deciduous forest.						
85	Shrubs	Bajal bah	*Pseudostachyum polymorphum*		Tropical evergreen, semi evergreen forest and deciduous forest.						
86	Shrubs	Bon-madhuriam	*Pyrenaria barringtoniaefolia*		Tropical evergreen, semi evergreen forest and deciduous forest.						
87	Shrubs	Bon-pasala	*Sarauja roxburghil*		Tropical evergreen, semi evergreen forest and deciduous forest.						
88	Shrubs	Bor-manmani	*Centella asiatica*		Tropical evergreen, semi evergreen forest and deciduous forest.						
89	Shrubs	Daridiga, Bon-mendelua	*Cassia tora*		Tropical evergreen, semi evergreen forest and deciduous forest.						
90	Shrubs	Dhoptita	*Clerodendron infortunatum*		Tropical evergreen, semi evergreen forest and deciduous forest.						
91	Shrubs	Dighloti	*Litsasea salicifolia*		Tropical evergreen, semi evergreen forest and deciduous forest.						

Format 18: Trees, Shrubs, Herbs, Tubers, Grasses, Climbers, Lichens & Fungi

1	2	3	4	5	6	7		8	9	10	11
Sl.no	Plant Type	Local Name	Scientific Name	Habit	Habitat	Local Status		Commercial/ Own use	Part Collected	Associated TK	Community/ Knowledge holder
						Past	Present				
92	Shrubs	Eragoch	*Ricinus communis*		Tropical evergreen, semi evergreen forest and deciduous forest.						
93	Shrubs	Gereguatamol, Ramtamol	*Pinanga gracilis*		Tropical evergreen, semi evergreen forest and deciduous forest.						
94	Shrubs	Haru manmani	*Hydrocotyle rotundibila*		Tropical evergreen, semi evergreen forest and deciduous forest.						
95	Shrubs	Hauka bet	*Zalacca secunda*		Tropical evergreen, semi evergreen forest and deciduous forest.						
96	Shrubs	Heloch	*Antidesma ghaesembilla*		Tropical evergreen, semi evergreen forest and deciduous forest.						
97	Shrubs	Jarmoni bon	*Eupatorium odoratum*		Tropical evergreen, semi evergreen forest and deciduous forest.						
98	Shrubs	Jati bah	*Bambusa tulda*		Tropical evergreen, semi evergreen forest and deciduous forest.						
99	Shrubs	Jati bet, Rangi bet	*Calamus floribundus*		Tropical evergreen, semi evergreen forest and deciduous forest.						
100	Shrubs	Jengu, Japipat	*Licuala peltata*		Tropical evergreen, semi evergreen forest and deciduous forest.						
101	Shrubs	Lejai bet	*Calamus floribundus*		Tropical evergreen, semi evergreen forest and deciduous forest.						

Format 18: Trees, Shrubs, Herbs, Tubers, Grasses, Climbers, Lichens & Fungi

1	2	3	4	5	6	7		8	9	10	11
Sl.no	Plant Type	Local Name	Scientific Name	Habit	Habitat	Local Status		Commercial/ Own use	Part Collected	Associated TK	Community/ Knowledge holder
						Past	Present				
102	Shrubs	Kasidoria, Kachidria	*Myursine capitellata*		Tropical evergreen, semi evergreen forest and deciduous forest.						
103	Shrubs	Kathandaphul	*Coffea bengalnsis*		Tropical evergreen, semi evergreen forest and deciduous forest.						
104	Shrubs	Kawpat	*Phrynium placentarium*		Tropical evergreen, semi evergreen forest and deciduous forest.						
105	Shrubs	Kush	*Saccharum spontaneum*		Tropical evergreen, semi evergreen forest and deciduous forest.						
106	Shrubs	Kush	*Saccharum spontaneum*		Tropical evergreen, semi evergreen forest and deciduous forest.						
107	Shrubs	Makhioti	*Moghania strobilifera*		Tropical evergreen, semi evergreen forest and deciduous forest.						
108	Shrubs	Meghela	*Saccharum narenga*		Tropical evergreen, semi evergreen forest and deciduous forest.						
109	Shrubs	Nal	*Phragmitcs karka*		Tropical evergreen, semi evergreen forest and deciduous forest.						
110	Shrubs	Patidoi	*Schumannianthus dichotomus*		Tropical evergreen, semi evergreen forest and deciduous forest.						
111	Shrubs	Phukuta	*Melastoma malabathricum*		Tropical evergreen, semi evergreen forest and deciduous forest.						

Format 18: Trees, Shrubs, Herbs, Tubers, Grasses, Climbers, Lichens & Fungi

1	2	3	4	5	6	7		8	9	10	11
Sl.no	Plant Type	Local Name	Scientific Name	Habit	Habitat	Local Status		Commercial/ Own use	Part Collected	Associated TK	Community/ Knowledge holder
						Past	Present				
112	Shrubs	Sorat	*Laportea crenulata*		Tropical evergreen, semi evergreen forest and deciduous forest.						
113	Shrubs	Titaphul	*Phlogacanthus thyrsiflorius*		Tropical evergreen, semi evergreen forest and deciduous forest.						
114	Shrubs	Tokopat	*Livistonia jenkinsiana*		Tropical evergreen, semi evergreen forest and deciduous forest.						
115	Shrubs	Wakthoi, Makal bak	*Bambusa pallidia*		Tropical evergreen, semi evergreen forest and deciduous forest.						
116	Climbers	Chonga lata	*Thunbergia coccinea*		Tropical evergreen, semi evergreen forest and deciduous forest.						
117	Climbers	Darbijla, Darbijli	*Dalbergia stipulacea*		Tropical evergreen, semi evergreen forest and deciduous forest.						
118	Climbers	Dhindau-bagori lota	*Pegia nitida*		Tropical evergreen, semi evergreen forest and deciduous forest.						
119	Climbers	Ghilla, Barghilla/Ghila-lewa	*Entada phaseoloides*		Tropical evergreen, semi evergreen forest and deciduous forest.						
120	Climbers	Gowalia lata	*Vitis latifolia*		Tropical evergreen, semi evergreen forest and deciduous forest.						
121	Climbers	Kukua loti	*Thunbergia grandiflora*		Tropical evergreen, semi evergreen forest and deciduous forest.						

Format 19: Wild Plant Species of Importance

1	2	3	4	5	6
Sl. No	Local Name	Scientific Name	Variety	Importance	Status
1		*Helminthostachys zeylanica*			
2		*Cynthea gigantea*			
3		*Acampe papilliosa*	Wild		Rare
4		*Aerides multiflora*	Wild		Rare
5		*Aerides odorata*	Wild		Rare
6		*Cymbidium dayanum*	Wild		Rare
7		*Gastrochilus calceolaris*	Wild		Rare
8		*Habenaria stenopetala*	Wild		Rare
9		*Rhynchostylis retusa*	Local		Common
10		*Stenochlaena palustris*			
11		*Asplenium nidus*			
12		*Microsorium puncatum*			
13		*Huperzia squarrosa*			
14		*Angiopteris evecta*			
15		*Dipteris wallichii*			
16		*Psitotum nudum*			
17		*Aponogaton appendiculatus*			
18		*Dendrobium nobile*	Wild		Rare

Format 20: Aquatic Biodiversity

1	2	3	4	5	6	7		8	9	10	11
Sl.no	Local Name	Scientific name	Variety	Features	Habitat	Local Status		Uses	Associated TK	Other details	Community/ Knowledge holder
						Past	Present				
1	Sihu	*Platanista gangetica*			Freshwater.						
2	Lal kol	*Ardea purpurea*			Wetland and rivers.						
3	Dhitraj	*Anser indicus*			Jheel, wetland and river.						
4	Sakoi sokua	*Tadorna ferruginea*			wetland and river.						
5	Chila hanh	*Anas crecca*			Wetland, marshes and river.						
6	Ghila hah	*Anas formosa*			Wetland, marshes and river.						
7	Tikoni balighora	*Anas acuta*			Wetland and marshes.						
8	Bor kolimugi	*Aythya nyroca*			Wetland and marshes.						
9	Ranga muriya	*Aythya ferina*			Wetland and marshes.						
10	Balighora	*Vallenus indicus*			Wetland and marshes.						
11	Shiva hanh	*Podiceps cristatus*			Wetland and marshes.						

Format 20: Aquatic Biodiversity

1	2	3	4	5	6	7		8	9	10	11
Sl.no	Local Name	Scientific name	Variety	Features	Habitat	Local Status		Uses	Associated TK	Other details	Community/ Knowledge holder
						Past	Present				
12	Jal mayur	*Hydrophasianus chirurgus*			Wetland and marshes.						
13	Panidubi	*Tachybaptus ruficollis*			Wetland and marshes.						
14	Pani kauri	*Phalacrocorax fuscicollis*			Wetland and marshes.						
15	Java puthi	*Puntius javanicus*			Freshwater.			Consumed as food			
16	Darikona	*Rasbora rasbora*			Freshwater.			Consumed as food			
17	Moa	*Amblypharyngodon mola*			Freshwater.			Consumed as food			
18	Kholihona	*Colisa fasciatus*			Freshwater.			Consumed as food			
19	Kuchia	*Monopterus cuchia*			Marshes and swamp.			Consumed as food			
20	Bami/Gosi	*Mastacembelus armatus*			Marshes and swamp.			Consumed as food			
21	Kandhuli	*Notopterus notopterus*			Freshwater.			Consumed as food			
22	Keintah puthi	*Chagunius chagunio*			Freshwater.			Consumed as food			
23	Kuri	*Labeo gonius*			Freshwater.			Consumed as food			
24	Bordowa	*Pachypteris atherinoides*			Freshwater.			Consumed as food			
25	Turi	*Macrognathus aral*			Freshwater.			Consumed as food			
26	Batia	*Lepidocephalichthys guntea*			Freshwater.			Consumed as food			
27	Hato	*Osteobrama cotio*			Freshwater.			Consumed as food			

Format 21: Wild Aquatic Plant Species of Importance

1	2	3	4	5	6
Sl. no	Local Name	Scientific Name	Variety	Importance	Trends
1	Kath mouka	*Nymphaea nouchali*	Local	The seeds are eaten raw.	
2	Kolmou	*Ipomoea aquatica*	Local	The tender leaf and stem are eaten as vegetable.	
3	Sengmora	*Lasia spinosa*	Local	Taken as food.	
4	Panikhutura	*Ludwigia adscendens*	Local	The tender leaf and stem are eaten as vegetable.	
5	Bih meteka	*Eichhornia crassipes*	Local	Fish nets are laid in between water hyacinth to catch fishes.	
6	Bor manimuni	*Centella asiatica*	Local	Taken during digestive problems.	
7	Borpuni	*Pistia stratiotes*	Local		
8	Ohl kasu	*Amorphophalus campanulatus*	Local	Taken as food. Sold in nearby markets.	
9	Kola kosu	*Colocasia esculenta*	Local	Taken as food. Tender stems are sold in the nearby markets.	
10	Horu manimuni	*Hydrocotyle sibthorpioides*	Local	Taken during digestive problems.	

Format 23: Wild relatives of Crops

1	2	3	4	5	6		7	8	9	10	11
Sl.no	Local Name	Scientific Name	Associated Crop	Landscape/ Habitat	Local Status		Uses (Usage)	Part Used	Associated TK	Other Details	Community/know holder
					Past	Present					
1		*Oryza rufipoyon*	Rice crop	Agriculture field	Abundant	Abundant				Mimicry plant, these are being thrown away.	DAO
2		*Oryza nivara*	Rice crop	Agriculture field	Abundant	Abundant				Mimicry plant, these are being thrown away.	DAO
3	Huagmoni	*Oryza sativa*	Rice crop	Agriculture field	Abundant	Scarce	Consumed as food	Whole plant		Very rare now a day, it is almost lost.	Ratan Kurmi, Dimoruguri.
4	Bedguti	*Oryza sativa*	Rice crop	Agriculture field	Abundant	Scarce	Consumed as food	Whole plant		Very rare now a day, it is almost lost.	Ratan Kurmi, Dimoruguri.
5	Karlahi	*Oryza sativa*	Rice crop	Agriculture field	Abundant	Scarce	Consumed as food	Whole plant		Very rare now a day, it is almost lost.	Ratan Kurmi, Dimoruguri.
6	Prasad bhog	*Oryza sativa*	Rice crop	Agriculture field	Abundant	Scarce	Consumed as food	Whole plant		Very rare now a day, it is almost lost.	Ratan Kurmi, Dimoruguri.

- Huagmoni, Bedguti, Karlahi, Prasad bhog were cultivated earlier (10-15 years ago). Now it is almost lost. Although in some parts, some people are still trying to cultivate.
- Data provided by DAO- District Agriculture Office.

Format 25: Fumigate/ Chewing Plants

1	2	3	4	5	6	7		8	9	10	11	12
Sl.no	Plant (Herb, Shrub, Tree)	Local Name	Scientific Name	Variety	Habitat	Local status		Uses (Usage)	Part Used	Associated TK	Other details (mode of use)	Community Knowledge Holder
						Past	Present					
1	Tree	Narikol	*Cocos nucifera*	Local	Tropics	Abundant	Abundant	Chewing	Fruit	The endosperm is eaten. The outer covering is used during religious practice.		
2	Palm	Tamul	*Areca catechu*	Local	Homestead	Abundant	Abundant	Chewing	Fruit	Offered to people during religious practice.		
3	Creeper	Pan	*Piper betle*	Local	Homestead	Abundant	Abundant	Chewing	Leaf	Offered to people during religious practice.		
4	Tree	Narasingha	*Murraya koenigii*	Local	Homestead	Abundant	Abundant	Chewing	Leaf	Eaten raw during digestive problems.		
5	Herb	Bor Manimuni	*Centella asiatica*	Local	Homestead	Abundant	Abundant	Chewing	Leaf	Digestive disorder.		
6	Tree	Moduri aam	*Psidium guajava*	Local	Homestead	Abundant	Abundant	Chewing	Leaf	Diarrhea.		
7	Herb	Tengesi Tenga	*Oxalis Corniculata*	Local	Homestead	Abundant	Abundant	Chewing	Leaf	Dysentery.		
8	Shrub	Bongali era	*Jatropha curcas*	Local	Homestead	Abundant	Scarce	Chewing	Branch	Tooth ache, pyorrhea etc.		
9	Tree	Hilikha	*Terminalia chebula*	Local	Homestead	Abundant	Abundant	Chewing	Fruit	Dried salted fruit.		
10	Tree	Amlokhi	*Phyllanthus emblica*	Local	Homestead	Abundant	Abundant	Chewing	Fruit	Dried salted fruit.		

Format 28: Wild Animals (Mammals, Birds, Reptiles, Amphibia, Insects, others)

1	2	3	4	5	6	7		8	9	10	11	12
Sl.no	Animal Type	Local Name	Scientific Name	Habitat	Season when seen	Local status		Uses (if any)	Associated TK	Mode of Haunting, Collecting (if any)	Other details	Community Knowledge Holder
						Past	Present					
1	Primate	Hoolo bandor	*Hoolock hoolock*	Tropical, evergreen and semi evergreen forest.								
2	Old world monkey	Axomiya bandor	*Macaca assamensis*	Tropical, evergreen and semi evergreen forest.								
3	Old world monkey	Hendurimukhiya bandor	*Macaca arctoides*	Subtropical, tropical broadleaf and evergreen forests.								
4	Old world monkey	Maluwa bandor	*Macaca mulatta*	Tropical, evergreen and semi evergreen forest.								
5	Primate	Tupimuriya bandor	*Trachypithecus pileatus*	Tropical, evergreen and semi evergreen forest.								
6	Primate	Lajuki bandor	*Lori bengalensis*	Tropical, evergreen and semi evergreen forest.								
7	Mammal	Dangor kerketua	*Ratufa bicolor*	Tropical, evergreen and semi evergreen forest.								

Format 28: Wild Animals (Mammals, Birds, Reptiles, Amphibia, Insects, others)

1	2	3	4	5	6	7	8		9	10	11	12	13
Sl.no	Animal Type	Local Name	Scientific Name	Habitat	Description	Season when seen	Local status		Uses (if any)	Associated TK	Mode of Haunting, Collecting (if any)	Other details	Community Knowledge Holder
							Past	Present					
8	Mammal	Kerketua	*Petaurista petaurista*	Moist evergreen, broadleaf, forest, temperate forest coniferous, forests and scrub forest.									
9	Mammal	Kerketua	*Hylopetes alboniger*	Found in tropical and subtropical forests, and rhododendron forests.									
10	Mammal	Jongli gahori	*Sus scrofa*	Grassland, tropical forest and deciduous forest.									
11	Mammal	Chagoli pohu	*Hyelaphus porcinus*	Floodplains and wet grassland.									
12	Mammal	Ketela pohu	*Hystrix brachyura*	Scrubby area, forestland.									
13	Mammal		*Pteropus* sp.	Rainforest.									

Format 28: Wild Animals (Mammals, Birds, Reptiles, Amphibia, Insects, others)

1	2	3	4	5	6	7		8	9	10	11	12
Sl.no	Animal Type	Local Name	Scientific Name	Habitat	Season when seen	Local status		Uses (if any)	Associated TK	Mode of Haunting, Collecting (if any)	Other details	Community Knowledge Holder
						Past	Present					
14	Mammal	Neol	*Herpestes edwardsii*	Secondary forest.								
15	Mammal	Hugori pohu	*Muntiacus muntjac*	Dense and open forests, evergreen and deciduous areas, old-growth and secondary forests, and even grass.								
16	Reptiles	Ajagar	*Python bivittatus*	Forest, grassland and swamps.								
17	Reptiles	Gowala	*Bungarus fasciatus*	Dry and moist deciduous forest, broadleaf forest and tropical scrub.								
18	Reptiles	Feti haap	*Naja kaouthia*	Paddy fields, swamps, and mangroves, grasslands, shrublands, and forests.								
19	Reptiles	Feti haap	*Ophiophagus hannah*	Degraded forest, mangrove swamps and agricultural field.								
20	Reptiles		*Trimeresurus erythrurus*	Flat and sloped moist forests								
21	Reptiles		*Trimeresurus stejnegeri*	Bamboo groves and forests								
22	Reptiles		*Bungarus caeruleus*	Rainforest, deciduous forest, scrub forest, wetlands, grasslands.								
23	Reptiles	Lota haap	*Oxybelis fulgidus*	Tropical rainforest.								

Format 28: Wild Animals (Mammals, Birds, Reptiles, Amphibia, Insects, others)

1	2	3	4	5	6	7	8		9	10	11	12	13
Sl.no	Animal Type	Local Name	Scientific Name	Habitat	Description	Season when seen	Local status		Uses (if any)	Associated TK	Mode of Haunting, Collecting (if any)	Other details	Community Knowledge Holder
							Past	Present					
24	Birds	Bor pati hogun	*Gyps tenuirostris*	Dry open country and forested areas.									
25	Birds	Hogun	*Gyps africanus*	Open wooded savanna.									
26	Birds	Bora hogun	*Gyps fulvus*	Open countryside.									
27	Birds	Lakhi fesa	*Glaucidium cuculoides*	Tropical, sub-tropical and temperate forests.									
28	Birds	Raj Dhanesh	*Buceros bicornis*	Evergreen and deciduous forest.									
29	Birds	Dorik	*Lophura leucomelanos*	Forests and thickets.									
30	Birds	Deohah	*Asarcornis scutulata*	Pools and marshes in dense forest.									
31	Birds	Hargila	*Leptoptilos dubius*	Marshes and swamp.									

Format 28: Wild Animals (Mammals, Birds, Reptiles, Amphibia, Insects, others

1	2	3	4	5	6	7		8	9	10	11	12
Sl.no	Animal Type	Local Name	Scientific Name	Habitat	Season when seen	Local status		Uses (if any)	Associated TK	Mode of Haunting, Collecting (if any)	Other details	Community Knowledge Holder
						Past	Present					
32	Birds	Bortokla	*Leptoptilos javanicus*	Marshes and swamp.								
33	Birds	Rongamuriya dhaplika	*Stachyridopsis ruficeps*	Broadleaf evergreen forest, bamboo stands, thick secondary bush growth.								
34	Birds	Kurua	*Spilornis cheela*	Well wooded country side.								
35	Birds		*Aquila nipalensis*	semi-arid areas of grassland.								
36	Birds	Kath Dhanesh	*Anthracoceros albirostris*	Evergreen and deciduous forest.								
37	Butterflies	Pokhila	*Mycalesis mineus*									
38	Butterflies	Pokhila	*Zizeeria karsandra*									
39	Butterflies	Pokhila	*Leptosia nina*									
40	Butterflies	Pokhila	*Loxura atymnus*									
41	Butterflies	Pokhila	*Doleschallia bisaltide*									

Format 28: Wild Animals (Mammals, Birds, Reptiles, Amphibia, Insects, others

1	2	3	4	5	6	7		8	9	10	11	12
Sl.no	Animal Type	Local Name	Scientific Name	Habitat	Season when seen	Local status		Uses (if any)	Associated TK	Mode of Haunting, Collecting (if any)	Other details	Community Knowledge Holder
						Past	Present					
42	Butterflies	Pokhila	*Zemeros flegyas*									
43	Butterflies	Pokhila	*Ypthima baldus*									
44	Butterflies	Pokhila	*Heliophorus epicles*									
45	Frog		Fejevarya teraiensis									
46	Frog		*Polypedates leucomystax*									
47	Frog	Dangor doloni beng	*Humerana humeralis*									
48	Frog	Suk bhekuli	*Duttaphrynus melanostictus*									
49	Frog	Assamiya habi beng	*Hylarana leptoglossa*									
50	Frog		*Chiromantis vittatus*									
51	Frog	Bamun beng	*Hoplobatrachus tigerinus*									

Format 28: Wild Animals (Mammals, Birds, Reptiles, Amphibia, Insects, others)

1	2	3	4	5	6	7		8	9	10	11	12
Sl.no	Animal Type	Local Name	Scientific Name	Habitat	Season when seen	Local status		Uses (if any)	Associated TK	Mode of Haunting, Collecting (if any)	Other details	Community Knowledge Holder
						Past	Present					
52	Spider	Mokora	*Aranea pilipes*									
53	Spider	Mokora	*Araneidae* sp.									
54	Spider	Mokora	*Argiope anusuja*									
55	Spider	Mokora	*Oxyopes* sp.									
56	Bug		*Acropteris* sp.									
57	Bug		*Pentatomidae* sp.									

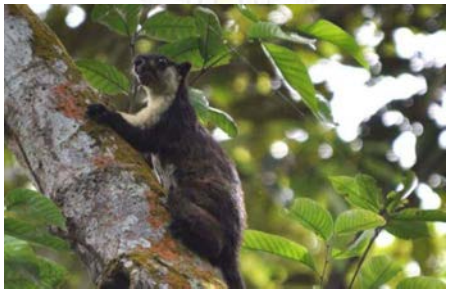
Photo Plates for Format 28: Wild Animals

Azogor

Kath Dhanesh

Bor pati hogun

Hoolo bandor



Dangor kerketua

Tupimuriya bandor

- Photographed by Imon Abedin

URBAN BIODIVERSITY

Format 29: Flora

1	2	3	4	5	6	7
Sl. No	Local Name	Scientific Name	Types of Plants	Habitat	Flowering Season	Remarks (Rare/ Common etc)
1	Gajar ghas	*Parthenium hysterophorus*	Annual herb	Roadsides, along railways and in pastures, seasonal floodplains.		Common
2	Goo phul	*Lantana camera*	Annual herb	Agriculture areas and forest margins.	All throughout year	Common
3	Gondhuwa bon	*Ageratum conyzoides*	Annual herb	Roadsides and along railways.	All throughout year	Common
4		*Bidens pilosa*	Perennial herb	Moist soil, sand and infertile soil.		Common
5		*Crassocephalum crepidioides*	Succulent herb	Farm land, waste places, plantations and backyard gardens.		Common
6	Kata khutura	*Amaranthus spinosus*	Perennial herb	Agricultural areas and pastures.		Common
7	Lajuki lota	*Mimosa pudica*	Perennial herb	Roadsides and along railway track.		Common
8	Durun bon	*Leucas aspera*	Undershrub	Agricultural areas and pastures.		Common
9	Dubori bon	*Cynodon dactylon*	Grass	Agricultural areas and pastures.		Common
10	Dhekiya	*Diplazium esculentum*	Fern	Open marshy areas and stream.		Common
11	Kola kosu	*Colocasia esculenta*	Corm	Banks of ponds and streams.		Common

Format 29: Flora

1	2	3	4	5	6	7
Sl. No	Local Name	Scientific Name	Types of Plants	Habitat	Flowering Season	Remarks (Rare/ Common etc)
1	Ahom bogori	*Prunus domestica*	Tree	Woodland and secondary garden.		Common
2	Narikol	*Cocos nucifera*	Tree	Garden.		Common
3	Tejpat	*Cinnamomum tomato*	Tree	Woodland and secondary garden.		Common
4	Outenga	*Dillenia indica*	Tree	Tropical area.		Common
5	*Amlakhi*	*Emblica officinalis*	Tree	Tropical region.		Common
6	Azar	*Lagerstroemia speciosa*	Tree	Tropical region.		Common
7	Jetuka	*Lawsonia inermis*	Tree	Tropical region.		Common
8	Nahor	*Mesua ferrea*	Tree	Tropical region.		Common
9	Jaluk	*Piper nigram*	Climber	Tropical region.		Common
10	Bogori	*Ziziphus mauritiana*	Tree	Tropical region.		Common

Format 30: Fauna

1	2	3	4	5	6
Sl. No	Local Name	Scientific Name	Types of Animals (Mammals/ Birds/ Fish/ Insect etc)	Habitat	Remarks (Rare/ Common etc)
1	Bairokh	*Rhabdophis subminiatus*	Reptile	Small waterbodies such as pond and marshes.	Common
2	Dhunduli feti	*Ptyas mucosa*	Reptile	Urban areas, agriculture field and forest.	Common
3	Bamuni sap	*Coelognathus radiatus*	Reptile	Semi evergreen, dry deciduous forest.	Common
4	Bamuni sap	*Amphiesma stolata*	Reptile	Agricultural lands, gardens, open forests.	Common
5	Feti haap	*Naja kaouthia*	Reptile	Forest, agriculture field, wet grasslands.	Rare
6	Guala	*Bungarus fasciatus*	Reptile	Lives in and around wet lands, open forests, agricultural lands.	Rare
7	Myna	*Acridotheres tristis*	Bird	Well wooded country and human habitation.	Common
8	Pani kauri	*Phalacrocorax niger*	Bird	Pond, wetland and water reservoir.	Common
9	Gau Bogoli	*Bulbulcus ibis*	Bird	Marshes and paddy field.	Common
10	Bogoli	*Egretta garzetta*	Bird	Marshes and paddy field.	Common
11	Konamusori	*Ardeola grayii*	Bird	Marshes, ponds, paddy fields.	Common
12	Hamukh khula	*Anastomus oscitans*	Bird	Marshes, ponds, paddy fields.	Rare
13	Horali haah	*Dendrcygna javanica*	Bird	Marshes and ponds.	Common
14	Dauk	*Amaurornis phoenicurus*	Bird	Marshes, ponds and paddy fields.	Common
15	Pani dauk	*Gallinule chloropus*	Bird	Marshes, ponds and paddy fields.	Common
16	Tila ghugu	*Spilopelia chinensis*	Bird	Dry and moist deciduous biotope.	Common
17	Golmonika bhatow	*Psittacula krameri*	Bird	Jungle, orchards and human settlements.	Rare
18	Kuli	*Eudynamys scolopacea*	Bird	Wooded country and cultivation.	Common

Format 30: Fauna

1	2	3	4	5	6
Sl. No	Local Name	Scientific Name	Types of Animals (Mammals/ Bird/ Fish)	Habitat	Remarks (Rare/ Common etc)
19	Botahi	*Apus affinis*	Bird	Buildings and cliffs.	Rare
20	Nila kanor hetuluka	*Megalaima asiatica*	Bird	Deciduous and evergreen forest.	Rare
21	Fesu sorai	*Oriolus xanthornus*	Bird	Mixed deciduous and evergreen forest.	Rare
22	Fesu sorai	*Dicrurus macrocercus*	Bird	Open deciduous and cultivation.	Common
23	Chutiya myna	*Acridotheres fuscus*	Bird	Well wooded country and human habitation.	Common
24	Kauri	*Corvus splendens*	Bird	Human habitation.	Common
25	Bulbuli	*Pycnonotus cafer*	Bird	Cultivation and scrub.	Common
26	Dohiktora	*Copsychus malabaricus*	Bird	Dry deciduous and secondary forest.	Common
27	Balimahi	*Motacilla cinereal*	Bird	Wetland and rocky banks.	Common
28	Balimahi	*Motacilla alba*	Bird	Open country, water reservoir.	Common
29	Ghor sirika	*Passer domesticus*	Bird	Suburbs and villages.	Common
30	Pokhila	*Hypolimnas bolina*	Butterfly	Wet forest areas and gardens.	Common
31	Pokhila	*Papilio polytes*	Butterfly	Gardens and wet patches.	Common
32	Pokhila	*Danaus genutia*	Butterfly	Scrubland and light forest.	Common
33	Pokhila	*Papillio mennon*	Butterfly	Forest and open areas.	Rare
34	Pokhila	*Pareronia valeria*	Butterfly	Open woodlands.	Common
35	Pokhila	*Neptis hylas*	Butterfly	Deciduous and evergreen patches.	Rare
36	Pokhila	*Athyma perius*	Butterfly	Forest and forest fringes.	Rare
37	Pokhila	*Parantica aglea*	Butterfly	Open and partially cultivated areas	Common

Format 30: Fauna

1	2	3	4	5	6
Sl. No	Local Name	Scientific Name	Types of Animals (Mammals/ Bird/ Fish/ Insect etc.)	Habitat	Remarks (Rare/ Common etc.)
38	Pokhila	*Pieris rapae*	Butterfly	Open places and lightly wooded country.	Common
39	Pokhila	*Junonia lemonias*	Butterfly	Open agriculture areas and forest clearings.	Common
40	Pokhila	*Catopsilia pomona*	Butterfly	Garden and city areas.	Common
41	Pokhila	*Graphium sarpedon*	Butterfly	Open areas and forest fringes.	Common
42	Jiya	*Neurothemis fulvia*	Dragonfly	Canopy gaps and forest edges.	Common
43	Jiya	*Rhyothemis variegata*	Dragonfly	Marshes, ponds and paddy fields.	Common
44	Jiya	*Brachythemis contaminata*	Dragonfly	Sewage canals, tanks, ponds.	Common
45	Mokora	*Pholcus phalangioides*	Spider	Caves, under rocks and loose bark.	Common
46	Mokora	*Araneus mitificus*	Spider	Gardens and low vegetation.	Common
47	Mokora	*Argiope anusuja*	Spider	Forested area.	Rare
48	Mokora	*Heteropoda sp.*	Spider		Common
49	Mokora	*Nephila pilipes*	Spider		Rare

Photo Plates for Format 30: Urban Biodiversity (fauna)

Masroka

Chutiya myna

Pani kauri

Great eggfly

Striped tiger

Common sailor

Photo Plates for Format 30: Urban Biodiversity (fauna)

Fulvous forest skimmer

Common picture wing

Common Mormon

Giant Wood spider

Indian signature spider

Daddy longlegs

ASSAM STATE BIODIVERSITY BOARD
ARANYA BHAWAN, 2nd FLOOR
PANJABARI, GUWAHATI-781037
www.asbb.gov.in

ABB/1/2011/63

Tel- 0361- 2333917; Fax: 2333788
Email: assambioboard@gmail.com
Date: 23/06/2020

From: K.S.P.V. Pavan Kumar, IFS
i/c Special PCCF (Biodiversity & Climate Change) &
Member Secretary- ASBB
Aranya Bhawan, Panjabari, Guwahati-37

To: Sri M. K. Yadava, IFS
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee

Sub: Regarding information sought from the Assam State Biodiversity Board in relation to the Baghjan Oil well blowout in Tinsukia District.

Ref: Your office letter no. OMEC/MKY/BGN-5/2020/L01/22 dated 15.06.2020

With reference to the subject cited above, I am submitting herewith the available documents related to 'Biodiversity baseline of the area' and People's Biodiversity Registers (PBR) of Hapjan Anchalik Panchayat Biodiversity Management Committee (BMC). The secondary literatures consulted to prepare the 'Biodiversity baseline of the area' are also attached herewith.

This is for your information and further necessary action.

Enclosures:

1. Biodiversity baseline of the area
2. PBR of Hapjan AP BMC
3. Secondary literatures

23/06/2020

i/c Member Secretary
Assam State Biodiversity Board

Base line of Biodiversity

MAMMALS		
Sl No.	**Common Name**	**Scientific Name**
1	Chinese pangolin	*Manis pentadactyla*
2	Himalayan Mole, indian	*Talpa micrura*
	Short-tailed Mole, Eastern mole	
3	House shrew,Grey Musk Shrew	*Suncus murinus*
4	Indian Flying Fox	*Pteropus giganteus*
5	Bengal slow loris	*Nycticebus bengalensis*
6	Nothern pig-tailed macaque	*Macaca leonina*
7	Assamese macaque	*Macaca assamensis*
8	Rhesus macaque	*Macaca mulatta*
9	Capped langur	*Trachypithecus pileatus*
10	Western Hoolock Gibbon	*Hoolock hoolock*
11	Wild dog	*Cuon alpinus*
12	Golden jackal	*Canis aureus*
13	Sloth Bear	*Melursus ursinus*
14	Eurasian Otter	*Litra lutra*
15	Small Indian Civet	*Viverricula indica*
16	Small Asian Mongoose	*Herpestes javanicus*
17	Indian Grey Mongoose	*herpestes edwardsii*
18	jungle cat	*Felis chaus*
19	Leopard cat	*Prionailurus bengalensis*
20	Clouded leopard	*Neofelis nebulosa*
21	Leopard	*Panthera pardus*
22	Tiger	*Panthera tigris*
23	South Asian river dolphin or Gangetic dolphin	*Platanista*
24	Asian Elephant	*Elephas maximus*
25	Eurasian Wild pig of Wild boar	*Sus scrofa*
26	Samber	*Rusa (Cervus) unicolor*
27	Hog deer	*Axis porcinus*
28	Barking deer or Southern Red Munthac	*Muntiacus muntjak*
29	Indian Water Buffalo of Wild Asian Buffalo	*Babalus arnee*
30	Malayan or Black Giant Squirrel	*Ratufa bicolor*
31	Pallas's Squirrel	*Callosciurus erythraeus*
32	Himalayan Hoary-bellied squirrel	*Callosciurus pygerythrus*
33	Common or Red Giant Flying Squirrel	*Petaurista petaurista*
34	Particoloured Flying Squirrel	*Hylopetes alboniger*
35	Malayan or Himalayan Crestless Procupine	*Hystrix brachyura*
36	Indian Hare	*Lepus nigricollis*

	BIRDS	
Sl No.	**Common Name**	**Scientific Name**
1	Black Francolin	*Francolinus Francolinus*
2	Swamp Francolin	*Francolinus gularis*
3	Common Quail	*Coturnix coturinx*
4	Rain Quail	*Coturnix coromandelica*
5	Blue-breasted Quail	*Coturnix chinensis*
6	Red Junglefowl	*Gallus gallus*
7	Kalij Pheasant	*Lophura leucomelanos*
8	Yellow-legged Buttonquail	*Turnix tanki*
9	Barred Buttonquail	*Turnix suscitatior*
10	Small buttonquail	*Turnix suylvatica*
11	Fulvous Whistling-duck	*Dendrocygna bicolor*
12	Lesser Wihistling-duck	*Dendrocygna javanica*
13	Red -breasted Goose	*Branta ruficollis*
14	Bean Goose	*Anser fabalis*
15	Lesser White-fronted Goose	*Anser erythropus*
16	Greylag Goose	*Anser anser*
17	Bar-headed Goose	*Anser indicus*
18	Ruddy Shelduck	*Tadorna ferruginea*
19	Common Shelduck	*Tadorna tadorna*
20	White-winged Duck	*Cairina scutulata*
21	Comb Duck	*Sarkidiornis melanotos*
22	Cotton Pygmy-goose	*Nattapus coromandelianus*
23	Mandarin Fuck	*Aix galericulata*
24	Gadwall	*Anas strepera*
25	Falcated Duck	*Anas falcate*
26	Eurasian Wigeon	*Anas penelope*
27	Nallard	*Anas platyrhnchos*
28	Spot-billed Duck	*Anas poecilorhyncha*
29	Nothern Shoveler	*Anas clypeata*
30	Nothern Pintail	*Anas acuta*
31	Common Teal	*Anas crecca*
32	Baikal Teal	*Anas formosa*
33	Garganey	*Anas querquedula*
34	Long-tailed duck	*Clengula hyemalis*
35	Common Goldeneye	*Bucephala clangula*
36	Smew	*Mergellus albellus*
37	Red-rested Pochard	*Rhodonessa rufina*
38	Common Pochard	*Aythya ferina*
39	Ferruginous Pochard	*Aythya nyroca*
40	Baer's Pochard	*Aythya baeri*
41	Tufted Duck	*Aythya fuligula*
42	Greater Scaup	*Aythya marila*

43	Common Merganser	*Mergus merganser*
44	Eurasian Wryneck	*Jynx troquilla*
45	Speckled Piculet	*Picumnus innominatus*
46	White-browed Piculet	*Sasia ochracea*
47	Grey-capped Pygmy woodpecker	*Dendrocopos canicapillus*
48	Rufous Woodpecker	*Celeus brachyurus*
49	Falvous-breasted Woodpecker	*Dendrocopos macei*
50	Lesser Yellownape	*Picus Chlorolophus*
51	Greater Yellownape	*Picus flavinucha*
52	Streak-throated Woodpecker	*Picus xanthopygaeus*
53	Grey-headed Woodpecker	*Picus canus*
54	Greater Flameback	*Chrysocolaptes lucidus*
55	Mhimalayan Flameback	*Dinopium shorii*
56	Pale-headed Woodpecker	*Gecinulus grantia*
57	Bay Woodpecker	*Blythipicus pyrrhotis*
58	Great Barbet	*Megalaima virens*
59	Lineated Barbet	*Megalaima lineate*
60	Blue-throated Barbet	*Megalaima asiatica*
61	Coppersmith Barbet	*Megalaima haemacephala*
62	Blue-eared Barbet	*Megalaima australis*
63	Oriental Pied Hornbill	*Anthracoceros albirostris*
64	Great Hornbill	*Buceros bicornis*
65	Common Hoopoe	*Upupa epops*
66	Red-headed Trogon	*Harpactes erythrocephalus*
67	Indian Roller	*Coracias benghalensis*
68	Dollarbird	*Eurystomus orientails*
69	Blyth's Kingfisher	*Alcedo hercules*
70	Common Kingfisher	*Alcedo atthis*
71	Blue-eared Kingfisher	*Alcedo meninting*
72	Stork-billed Kingfisher	*Halcyon capensis*
73	Ruddy Kingfisher	*Halcyon coromanda*
74	White-throated Kingfisher	*Halcyon smyrnensis*
75	Crested Kingfisher	*Megaceryle lugubris*
76	Pied Kingfisher	*Ceryle rudis*
77	Blue-bearded Bee-eater	*Nyctyornis ahtertoni*
78	Green Bee-eater	*Merops orientalis*
79	Blue-tailed Bee-eater	*Merops philippinus*
80	Chestnut-headed Bee-eater	*Merops leschenaulti*
81	Chestnut-winged Cuckoo	*Clamator coromandus*
82	Pied Cuckoo	*Clamator jacobinus*
83	Common Hawk Cuckoo	*Hierococcyx varius*
84	Large Hawk Cuckoo	*Hierococcyx sparverioides*
85	Eurasian Cuckoo	*Cuculus canorus*
86	Indian Cuckoo	*Cuculus micropterus*
87	Lesser Cuckoo	*Cuculus poliocephalus*
88	Banded Bay Cuckoo	*Cacomantis sonneratil*

89	Plaintive Cuckoo	*Cacomantis merulinus*
90	Grey-bellied Cuckoo	*Cacomantis passerinus*
91	Drongo Cuckoo	*Surniculus lugubris*
92	Asian koel	*Eudynamys scolopacea*
93	Green-billed Malkoha	*Phaenicophaeus tristis*
94	Asian Emerald Cuckoo	*Chrysococcyx maculatus*
95	Greater Coucal	*Centropus sinensis*
96	Lesser Coucal	*Centropus bengalensis*
97	Alexandrine Parakeet	*Psittacula eupatria*
98	Rose-ringed Parakeet	*Psittacula krameri*
99	Blossom-headed Parakeet	*Psittacula roseata*
100	Red-breasted Parakeet	*Psittacula alexandri*
101	Himalayan Swiftlet	*Collocalia brevirostris*
102	Asian Palm Swift	*Cypsiurus balasiensis*
103	Fork-tailed Swift	*Apus pacificus*
104	House Swift	*Apus affinis*
105	Alpine Swift	*Tachymarptis melba*
106	White-throated Needletail	*Hirondapus caudacutus*
107	Grass Owl	*Tyto capensis*
108	Barn Owl	*Tyto Alba*
109	Oriental bay Owl	*Phodilus bedius*
110	Oriental Scops Owl	*Otus sunia*
111	Collared Scops Owl	*Otus bakkamoena*
112	Eurasian Eagle Owl	*Bubo bubo*
113	Brown fish Owl	*Ketupa zeylonensis*
114	Tawny Fish Owl	*Ketupa flavipes*
115	Asian Barred Owlet	*Glaucidium cuculoides*
116	Jungle Owlet	*Glaucidium radiatum*
117	Collared Owlet	*Glaucidium brodiei*
118	Spotted Owlet	*Athene brama*
119	Brown Hawk Owl	*Ninox scutulata*
120	Short-eared Owl	*Asio flammeus*
121	Large-tailed	*Caprimulgus macrurus*
122	Indian Nightjar	*Caprimulgus asiaticus*
123	Grey Nightjar	*Caprimulgus indicus*
124	Rock Pigeon	*Columba livia*
125	Pale-capped Pigeon	*Columba punicea*
126	Oriental Turtle Dove	*Streptopelia orientalis*
127	Spotted Dove	*Streptopelia chinensis*
128	Red Collared Dove	*Streptoelia tranquebarica*
129	Eurisian Collared Dove	*Streptoelia decaocto*
130	Barred Cuckoo Dove	*Macropygia unchall*
131	Emerald Dove	*Chalcophaps indica*
132	Pompadour Green Pigeon	*Treron pompadora*
133	Thick-billed Green Pigeon	*Treron curvirostra*
134	Yellow-footed Green Pigeon	*Treron phoenicoptera*

135	Pin-tailed Green Pigeon	*Treron apicauda*
136	Wedge-tailed Green Pigeon	*Treron sphenura*
137	Green Imperial Pigeon	*Ducula aenea*
138	Mountain Imperial Pigeon	*Ducula badia*
139	Bengal Florican	*Houbaropsis bengalenisis*
140	Sarus Crane	*Grus antigone*
141	Common Carne	*Grus grus*
142	Masked Finfoot	*Heliopais peusonata*
143	Slaty-legged Crake	*Rallina eurixonoides*
144	Slatu-breasted Rail	*Gallirallus striatus*
145	Water Rail	*Rallus aquaticus*
146	White-breasted Waterhen	*Amaurornis phoenicurus*
147	Black-tailed Crake	*Porzana bicolor*
148	Ruddy-breasted Crake	*Porzana Fusca*
149	Brown Crake	*Porzana akool*
150	Watercock	*Gallicrex cinerea*
151	Purple Swamphen	*Porphyrio porophyrio*
152	Common Moorthen	*Gallinula chloropus*
153	Comman Coot	*Fulica atra*
154	Pintail Snipe	*Gallinago atenura*
155	Common Snipe	*Gallinago gallinago*
156	Spotted Redshank	*Tringa eruthropus*
157	Common Tedshank	*Tringa totanua*
158	Common Greenshank	*Tringa nebularia*
159	Nordmann's Greenshank	*Tringa Guttifer*
160	Green Sandpiper	*Tringa ochropus*
161	Wood Sandpiper	*Tringa glareola*
162	Common Sandpiper	*Actitis hypoleucos*
163	Marsh Sandpiper	*Tringa stagnatilis*
164	Asian Dowitcher	*Limnodromus semipalmatus*
165	Temminck's Stint	*Calidris temminckil*
166	Ling-toed Stint	*Calidris minuta*
167	Little Stint	*Calidris minuta*
168	Whimbrel	*Numenius phaeopus*
169	Eurasian Curlew	*Numenius arquata*
170	Bar-tailed Godwit	*Limosa lapponica*
171	Greater painted-snipe	*Rostratula benghalensis*
172	Pheasant-winged Jacana	*Hydrophasianus chirurgus*
173	Bronze-winged Jacana	*Metopidius indicus*
174	Great Thick-knee	*Esacus recurvirostris*
175	Eurasian Thick-knee	*Burhinus oedicnemus*
176	Pied Avocet	*Recurvirostra avosetta*
177	Pacific Golden Plover	*Pluvialis fulva*
178	Little Ringed Plover	*Charadrius dubius*
179	Kentish Plover	*Charadrius alexandrius*
180	Eurasian Golden Plover	*Pluvialis apricaria*

181	Long-billed Plover	*Charadrius placidus*
182	Black-winged Stilt	*Himantopus himantopus*
183	Northern Lapwing	*Vanellus canellus*
184	River Lapwing	*Vanellus duvaucelii*
185	Grey-headed Lapwing	*Vanellus cinereus*
186	Red-wattled Lapwing	*Vanellus indicus*
187	Small Pratincole	*Glareola lactea*
188	Pallas's Gull	*Larus ichthyaetus*
189	Brown-headed Gull	*Larus brunnicephalus*
190	Black-headed Gull	*Larus ridibundus*
191	River Tern	*Sterna aurantia*
192	Whiskered Tern	*Chlidonias hybridus*
193	Black-bellied Tern	*Sterna acuticauda*
194	Osprey	*Pandion haliaetus*
195	Jerdon's Baza	*Aviceda jerdoni*
196	Black Baza	*Aviceda leuphotes*
197	Oriental Honey-buzzard	*Pernis ptilorhyncus*
198	White-eyed Buzzard	*Butastur teesa*
199	Black-shouldered Kite	*Elanus caeruleus*
200	Black Kite	*Milvus migrans*
201	Brahminy Kite	*Haliastur indus*
202	White-tailed Eagle	*Haliaeetus albicilla*
203	Pallas's Fish Eagle	*Haliaeetus leucoryphus*
204	Lesser Fish Eagle	*Ichthyophaga humilis*
205	Grey -headed Fish Eagle	*Ichthyophaga ichthyaetus*
206	Benelli's Eagle	*Hieraaetus fasciatus*
207	Booted Eagle	*Hieraaeatus pennatus*
208	Rufous-billed Eagle	*Hieraaeatus kienerii*
209	Black Eagle	*Ictinaetus malayensis*
210	White-tailed Eagle	*Haliaeetus alvicilla*
211	White-rumped Vulture	*Gyps bengalensis*
212	Slender-billed Vulture	*Gyps tenvirostris*
213	Himalayan Griffon	*Gyps himalayansis*
214	Red-headed Vulture	*Sarcogyps calvus*
215	Cinereous Vulture	*Aegypius monachus*
216	Short-toed Snake Eagle	*Circaetus gallicus*
217	Crested Serpent Eagle	*Spilornis cheela*
218	Eurasian Marsh Harrier	*Circus aeruginosus*
219	Hen Harrier	*Circus cyaneus*
220	Pallid harrier	*Circus macrourus*
221	Pied Harruer	*Circus melanoleucos*
222	Crested Goshawk	*Accipiter trivirgatus*
223	Shikra	*Accipiter badius*
224	Besra	*Accipiter virgatus*
225	Eurasian Sparrowhawk	*Accipiter nisus*
226	Japanese Sparrowhawk	*Accipiter gularis*

227	Common Buzzard	*Buteo buteo*
228	Greater Spotted Eagle	*Aqyuila clanga*
229	Changeable Hawk Eagle	*Spizaetus cirrhatus*
230	Mountain Hawk Eagle	*Spizaetus nipalensis*
231	Pied Falonet	*Microhierax melanoleucus*
232	Lesser Kestrel	*Falco naumanni*
233	Common Kestrel	*Falco tinnunculus*
234	Red-necked Falcon	*Falco chicquera*
235	Amur Falcon	*Falco amurensis*
236	Oriental Hobby	*Falco severus*
237	Eurasian Hobby	*Falco subbuteo*
238	Peregrine Falcon	*Falco peregrinus*
239	Lilttle Grebe	*Tachybaptus ruficollis*
240	Great Crested Grebe	*Podiceps cristaus*
241	Black-necked Grebe	*Podiceps nigricollis*
242	Darter	*Anhinga melanogaster*
243	Little Cormorant	*Phalacrocorax niger*
244	Indian Cormorant	*Phalacrocorax fuscicollis*
245	Great Cormorant	*Phalacrocorax carbo*
246	Little Egret	*Egretta garzetta*
247	Grey Heron	*Ardea cinerea*
248	Purple Heron	*Ardea Purpurea*
249	White-bellied Heron	*Ardea insignis*
250	Great Egret	*Casmerodius albus*
251	Intermediate Egret	*Mesophoyx intermedia*
252	Cattle Egret	*Bubulcus ibis*
253	Indian Pond Heron	*Ardeola Grayii*
254	Little Heron	*Butorides striatus*
255	Black-crowned Night Heron	*Nycticorax nycticorax*
256	Malayan Night Heron	*Gorsachius melanolophus*
257	Little Bittern	*Ixobrychus minutus*
258	Yellow Bittern	*Ixobrychus sinensis*
259	Cinnamin Bittern	*Ixobrychus cinnamomeus*
260	Black Bittern	*Dupetor flavicollis*
261	Glossy lbis	*Plegadis falcinellus*
262	Eurasian Spoonbill	*Platalea leucorodia*
263	Great White Pelican	*Pelecanus onocrotalus*
264	Spot-billed Pelican	*Pelecanus philippensis*
265	Asian Openbill	*Anastomus Oscitans*
266	Black Atrok	*Ciconia nigra*
267	Woolly-necked Stork	*Ciconia episcopus*
268	Black-necked Stork	*Ephippiorhynchus asiaticus*
269	Painted Stork	*Mycteria leucocephala*
270	White Stork	*Ciconia ciconia*
271	Lesser Adjutant	*Leptoptilos javanicus*
272	Greater Adjutant	*Leptotilos dubius*

273	Hooded Pitta	*Pitta sordida*
274	Long-tailed Broadbill	*Psarisomus dalhousiae*
275	Silver-breasted Broadbill	*Serilophus lunatus*
276	Asian Fairy Bluebird	*Irena puella*
277	Blue-winged Leafbird	*Chloropsis cocohinchinensis*
278	Golden-fronted Leafbird	*Chloropsis aurifrons*
279	Orange-bellied Leafbird	*Chloropsis hardwickii*
280	Brown Shrike	*Lanius cristatus*
281	Long-tailed Shrike	*Lanius schach*
282	Grey-backed Shrike	*Lanius tephronotus*
283	Common Green Magpie	*Cissa chubebsis*
284	Rufous Treepie	*Dendrocitta vagabunda*
285	Grey Treepie	*Dendrocitta formosae*
286	House Crow	*Carvus splendens*
287	Large-billed Crow	*Carvus macrohynchos*
288	Ashy Woodswallow	*Artamus fascus*
289	Black-hooded Oriole	*Oriolus xanthornus*
290	Maroon Oriole	*Oriolus traillii*
291	Large Cuckooshrike	*Coracina macel*
292	Black-winged Cukooshrike	*Coracina melaschistos*
293	Rosy Minivet	*Pericrocotus roseus*
294	Small Minivet	*Pericrocotus cinnamomeus*
295	Long-tailed Minivet	*Pericrocotus ethologus*
296	Short-billed Minivet	*Pericrocotus brevirostris*
297	Scarlet Minivet	*Pericrocotus flammeus*
298	Bar-winged Flycatcher-shrike	*Hemipus picatus*
299	White-throated Fantail	*Rhipifura albicollis*
300	Black Drongo	*Dicrurus macrocercus*
301	Ashy Drongo	*Dicrurus leucophaeus*
302	Crow-billed Drongo	*Dicrurus annectans*
303	Vronzed Drongo	*Dicrurus aeneus*
304	Lesser Racket-tailed Drongo	*Dicrurus remifer*
305	Spangled Drongo	*Dicrurus hottentottus*
306	Greater Racket-tailed Drongo	*Dicrurus paradiseus*
307	Black-naped Monarch	*Hypothymis azurea*
308	Asian Paradise-flycatcher	*Terpsiphone paradisi*
309	Common lora	*Aegithina tiphia*
310	Large Woodshrike	*Tephrodornis gularis*
311	Common Woodshrike	*Tephrodornis pondicerianus*
312	Blue Rock Thrush	*Monticola solitarius*
313	Chestnut-billed Rock Thrush	*Monticola rufiventris*
314	Blue Whistling Thrush	*Myophonus caeruleus*
315	Orange-headed Thrush	*Zoothera citrina*
316	Dark-sided Thrush	*Zoothera marginata*
317	Scaly Thrush	*Zoothera dauma*
318	Ticell's Thrush	*Turdus unicolor*

319	Black-breasted Thrush	*Turdus dissimilis*
320	Chestnut Thrush	*Turdus rubrocanus gouldi*
321	Dark-throated Thrush	*Turdus ruficollis*
322	Dusky Thrush	*Turdus naumanni*
323	Grey-winged Blackbird	*Turdus boulboul*
324	Lesser Shortwing	*Brachypteryx leucophrys*
325	Ferruginous Flycatcher	*Muscicapa ferruginea*
326	Red-throated Flycatcher	*Ficedula parva*
327	Snowy-browed Flycatcher	*Ficedula hyperythra*
328	Little Pied Flycatcher	*Ficedula westermanni*
329	Slaty-blue Flycatcher	*Ficedula tricolor*
330	Sapphire Flycatcher	*Ficedula sapphira*
331	Verditer Flycatcher	*Eumyias thalassina*
332	Large Niltava	*Niltava grandis*
333	Small Niltava	*Niltava macgrigoriae*
334	Rufous-bellied Niltava	*Niltava sundara*
335	Pale-blue Flycather	*Cyornis unicolor*
336	Pale-chinned Flycather	*Cyornis poliogenys*
337	White-throated Fantail Flycatcher	*Phipidura albicollis*
338	Grey-headed Canary Flycatcher	*Culicicapa ceylonensis*
339	Siberian Rubythroat	*Luscinia callliope*
340	White-tailed Rubythroat	*Luscinia pactoralis*
341	Bluethroat	*Luscinia svecica*
342	Firethroat	*Luscinia pectardents*
343	Oriental Magpie Robin	*Copsychus saularis*
344	White-rumped Shama	*Copsychus ochruros*
345	Black Redstart	*Phoenicurus hodgsoni*
346	Hodgson's Redstart	*Phoenicurus Hodgsoni*
347	Daurian Redstart	*Phoenicurus auroreus*
348	Blue-fronted Redstart	*Phoenicurus frontalis*
349	Plumbeous Redstart	*Rhyacornis fuliginosus*
350	White-capped Water Redstart	*Chaimarrornis leucocephalus*
351	White-tailed Robin	*Myiomela leucura*
352	Black-backed Forktail	*Enicurus immaculatus*
353	Hodgson's Bushchat	*Saxicola insignis*
354	Siberian Stonechat	*Saxicola maura*
355	White-tailed Stonechat	*Saxicola leucura*
356	Jerdon's Bushchat	*Saxicola jerdoni*
357	Common Stonechat	*Saxicola torquata*
358	Grey bushchat	*Sxicola ferrea*
359	Spot-winged Starling	*Saroglossa spiloptera*
360	Chestnut-tailed Starling	*Sturnus malabaricus*
361	Brahminy Starling	*Sturnus pagodarum*
362	Asian Pied Starling	*Sturnus contra*
363	Common Starling	*Sturnus vulgaris*
364	Common Myna	*Acridotheres tristis*

365	Bank Myna	*Acridotheres ginginianus*
366	Jungle Myna	*Acridotheres fuscus*
367	White-Vented Myna	*Acridotheres cinereus*
368	Common Hill Myna	*Gracula religiosa*
369	Chestnut-bellied Nuthatch	*Sitta castanea*
370	Velvet-fronted Nuthatch	*Sitta frontalis*
371	Great Tit	*Parus major*
372	Sultan Tit	*Melanochlora sultanea*
373	Pale Martin	*Riparia diluta*
374	Sand Martin	*Riparia riparia*
375	Plain Martin	*Riparia paludicola*
376	Barn Swallow	*Hirundo rustica*
377	Red-rumped Swallow	*Hirundo daurica*
378	Striated Swallow	*Hirundo striolata*
379	Black-crested Bulbul	*Pycnonotus melanicterus*
380	Red-whiskered Bulbul	*Pycnonotus jocosus*
381	Red-vente Bulbul	*Pycnonotus cafer*
382	Ashy Bulbul	*Hemixos flavala*
383	Black Bulbul	*Hypsipetes leucociphalus*
384	Whited-throated Bulbul	*Alophixus flaveolus*
385	Zitting Cisticola	*Cisticola joncidis*
386	Bright-headed Cisticola	*Cisticola exilis*
387	Rufous-vented (Swamp) Prinia	*Prinia burnesii cinerascens*
388	Grey-breasted Prinia	*Prinia hodgsonii*
389	Yellow-bellied Prinia	*Prinia flaviventris*
390	Plain Prinia	*Prinia inornata*
391	Graceful Prinia	*Prinia gracilis*
392	Ashy Prinia	*Prinia socialis*
393	Jungle Prinia	*Prinia sylvatica*
394	Oriental White-eye	*Zosterops palpebrosus*
395	Slaty-bellied Tesia	*Tesia olivea*
396	Grey-bellied tesia	*Tesia cyaniventer*
397	Pale-footed Bush Warbler	*Cettia pallidipes*
398	Brownish-flanked Bush Warbler	*Cettia fortipes*
399	Chestnut-crowned Bush Warbler	*Cettia major*
400	Aberrant Bush Warbler	*Cettia flavolivacea*
401	Grey-sided Bush Warbler	*Cettia brunnifrons*
402	Spotted Bush Warbler	*Bradypterus thoracicus*
403	Chinese Bush Warbler	*Bradypterus tacsanowskius*
404	Russet Bush Warbler	*Bradypterus seebohmi*
405	Paddyfield Warbler	*Acrocephalus agricola*
406	Blunt-winged Warbler	*Acrocephalus concinens*
407	Blyth's Reed Warbler	*Acrocephalus dumetorum*
408	Clamorous Reed Warbler	*Acrocephalus stentoreus*
409	Thick-billed Warbler	*Acrocephalus aedon*
410	Oriental Reed Warbler	*Acrocephalus orientalis*

411	Black-browed Reed Warbler	*Acrocephalus bistrigiceps*
412	Lesser Whitehroat	*Sylvia curruca*
413	Mountain Taitorbird	*Orthotomus cuculatus*
414	Common Tailorbird	*Orhotomus sutorius*
415	Dark-necked Tailorbird	*Orthotomus atrogularis*
416	Dusky Warbler	*Phylloscopus fuscatus*
417	Smoky Warbler	*Phylloscopus fuligiventer*
418	Tickell's Leaf Warbler	*Phylloscopus affinis*
419	Greenish Warbler	*Phylloscopus trochiloides*
420	Large-billed Leaf Warbler	*Phylloscopus magnirostris*
421	Blyth's Leaf Warbler	*Phylloscopus reguloides*
422	Yellow -veted Warbler	*Phylloscopus cantator*
423	Yellow-browed Warbler	*Phylloscopus inornatus*
424	Hume's Warbler	*Phylloscopus humei*
425	Ashy-throated Warbler	*Phylloscopus maculipennis*
426	Eastern Crowned Warbler	*Phylloscopus coronatus*
427	Common Chiffchaff	*Phylloscopus collybita*
428	Golden-hooded Warbler	*Seicercus burkil*
429	Grey-hooded Warbler	*Seicercus xanthoschistos*
430	White-spectacled Warbler	*Seicercus affinis*
431	Grey-cheeked Warbler	*Seicercus poliogenys*
432	Chestnut-crowned Warbler	*Seicercus*
433	Rufous-faced Warbler	*Abroscopus albogularis*
434	Yellow-bellied Warbler	*Abroscopus superciliaris*
435	Striated Grassbird	*Megalurus palustris*
436	Bristed Grassbird	*Chaetomis striatus*
437	Rufous-rumped Grassbird	*Graminicola bengalensis*
438	Lesser Neckaced Laughingthrush	*Garrulax monileger*
439	Greater Necklaced Laughingthrush	*Garrulax pectoralis*
440	Rufous-necked Laughingthrush	*Garrulas ruficolis*
441	Abbott's Babbler	*Malacocincla abbotti*
442	Buff-breasted Babbler	*Pellorneum tickelli*
443	Marsh Babbler	*Pellorneum palustre*
444	Puff-throated Babbler	*Pellorneum rificeps*
445	Spot-throated Babbler	*Pellorneum albiventre*
446	White-browed Scimitar Babbler	*Pomstorhinus schisticeps*
447	Pygmy Wren-Babbler	*Pnoepyga pusilla*
448	Rufous-fronted Babbler	*Stachyris rufifrons*
449	Grey-throated Babbler	*Stachyis nigriceps*
450	Striped Tit Babbler	*Macronous gularis*
451	Chestnut-capped Babbler	*Timalia pileata*
452	Jerdon's Babbler	*Chrysomma altirostre*
453	Yellow-eyed Babbler	*Chrysomma sinense*
454	Striated Babbler	*Turdoides earlei*
455	Slender-billed Babbler	*Turdoides longirostris*
456	Jungle Babbler	*Turdoides striatus*

457	White -hooded Babbler	*Gampsorhynchus rufulus*
458	Nepal Fulvetta	*Alcippe nipalensis*
459	White-bellied yuhina	*Yohina zantholeuca*
460	Black-breasted Parrotbill	*Paradoxomis*
461	Red-tailed Minla	*Minla ignotincta*
462	Bengale Bushlark	*Mirafra assamica*
463	Send Lark	*Calandrella raytal*
464	Oriental Skylark	*Alauda gulgula*
465	Yellow-cented Flowerpecker	*Dicaeum chrysorrheum*
466	Pale-billed Flowerpecker	*Dicaeum erythrorhynchos*
467	Fire-breasted Flowerpecker	*Dicaeum ignipectus*
468	Scarlet-becked Flowerpecker	*Dicaeum cruentatum*
469	Plain Flowerpecker	*Dicaeum concolor*
470	Ruby-cheeked Sunbird	*Anthreptes singltensis*
471	Purple Sunbird	*Nectarinia asiatica*
472	Crimson Sunbird	*Aethopyga siparaja*
473	Black-throated sunbird	*Aethopyga saturata*
474	Straked Spiderhunter	*Arachnothera magna*
475	House Sparrow	*Passer domesticus*
476	Eurasian Tree Sparrow	*Passer montanus*
477	Forest Wagtail	*Dendronanthus indicus*
478	White-Wagtail	*Motacilla alba*
479	White-browed Wegtail	*Motacilla maderaspatensis*
480	Citrine Wagtail	*Motacilla citreola*
481	Yellow Wagtail	*Motacilla flava*
482	Grey Wagtail	*Motacilla cinerea*
483	Richard's Pipit	*Anthus richardi*
484	Paddyfield Pipit	*Anthus rufulus*
485	Blyth's Pipit	*Anthus godlewskii*
486	Tree Pipit	*Anthus trivialis*
487	Olive-backed Pipit	*Anthus hodgsoni*
488	Rosy Pipit	*Anthus roseatus*
489	Buff-bellied Pipit	*Anthus rubescens*
490	Black-breasted Weaver	*Ploceus benghalensis*
491	Ateaked Weaver	*Ploceus manyar*
492	Baya Weaver	*Ploceus philippinus*
493	Finn's Weaver	*Ploceus megarhynchus*
494	Red Avadavat	*Amandava amandava*
495	Scaly-breasted Munia	*Lonchura punctulata*
496	Black-headed Munia	*Lonchura malacca*
497	White-rumped Munia	*Lonchura striata*
498	Common Rosefinch	*Carpodacus erythrinus*
499	Chestnut-eared Bunting	*Emberiza fucata*
500	Little-Bunting	*Emberiza pusilla*
501	Yellow-breasted Bunting	*Emberiza aureola*
502	Black-faced Bunting	*Emberiza apodocephala*

	TURTLES	
1	Indian or Ganges Softshell Turtle	*Nilssonia gangeticus*
2	Black softshell Turtle	*Nilssonia nigricans*
3	Indian Peacook Softshell Turtle	*Nilssonia hurum*
4	Narrow-headed softshell	*Chitra indica*
5	Malayan Box Turtle	*cuora amboinensis*
6	Oldham's Leaf Turtle	*Cyckemys oldhamii*
7	Spotted Pond Turtle	*Geoclemys hamiltonii*
8	Brown Roofed Turtle	*Pangshura smithii*
9	Assam Roofed Turtle	*Pangshura sulhetensis*
10	Indian Tent Turtle	*Pangshura Trntoria*
11	Tricarinate Turtle	*Melanochelys tricarinata*
	SNAKES	
1	Diard's Blind Snake	*Typhlops diardii*
2	Brahminy Blind Snake	*Ramphotyphlops brahminus*
3	Burmese Rock Python	*Python molurus bivittatus*
4	Short-nosed Vine Snake	*Ahaetulla prasina*
5	Buff-Striped Keelback	*Amphiesma stolata*
6	Eastern Cat Snake	*Boiga siamensis*
7	Copper-headed Trinket Snake	*Coelognathus radiatus*
8	Ornate Flying Snake	*Chrysopelea ornata*
9	Painted Bronzeback Tree Snake	*Dendrelaphis pictus*
10	Common Wolf Snake	*Lycodon aulicus*
11	White-Barred Kukri Snake	*Oligodon albocinctus*
12	Smooth Water Snake	*Enhydris enhydris*
13	Indo-Chinese Rat Snake	*Ptyas korros*
14	Indian Rat Snake	*Ptyas mucosa*
15	Assam Snail Eater	*Pareas monticola*
16	Mock Viper	*Psammodynastes pulverulentus*
17	Red-mecked Keelback	*Rahabdophis subminiatus*
18	Checkered Keelback	*Xenochrophis piscator*
19	Banded Krait	*Bungarus fasciatus*
20	Black Krait	*Bongarus niger*
21	Monocled Cobra	*Naja kaouthia*
22	King Cobra	*Ophiophagus hannah*
23	White-lipped Pit Viper	*Cryptelytrops albolabris*
	LIZARDS	
1	Indian Garden Lizard	*Calotes versicolor*
2	Many-lined Grass Skink	*Eutropis multifasciata*
3	Bronze Grass or Little Sun Skink	*Eutropis macularia*
4	White spotted Supple Skink	*Lygosoma albopunctaum*
5	Asian House Gecko	*Henidactylus franatus*
6	Tikay Gecko	*Gekko gecko*
7	Brook's House Gecko	*Hemidactylus*

8	Bengal Monitor	*Varanus bengalensis*
9	Water Monitor	*Varanus salvator*
	AMPHIBIANS	
1	Common Asian Toad	*Duttaphrunus*
2	Indian Bull Frog	*Hoplobatrachus tigerinus*
3	Common Cricket Frog	*Fejervarya limnocharis*
4	Syhadra Frog	*Fejervarya syhadrensis*
5	Pierre's Frog	*Fejervarya pierri*
6	Terai Cricket Frog	*Fejervarya teraiensis*
7	Indian Skipper Frog	*Euphlyctis cyanophlyctis*
8	Assam Forest Frog	*Hylarana leptoglossa*
9	Bhamo Frog	*Humerana humeralis*
10	Taipeh Frog	*Hylarana taipehensis*
11	Dacca Frog	*Hylarana tytleri*
12	Himalayan Tree Frog	*Polypedates cf himalayensis*
13	Six Lined Tree Frog	*Polypedates leucomystax*
14	Common Tree Frog	*Polypedates polypedates*
15	Striped Pygmy Tree Frog	*Chiromantis vittatus*
16	Annandate's Tree Frog	*Chiromentis simus*
17	Twin-spotted Tree Frog	*Rhacophorus bipunctatus*
18	Ornamented Pygmy Frog	*Microhyla ornata*
	BUTTERFLIES	
1	Chocolate Demon	*Ancistroides nigrita*
2	Pate Green Awlet	*Bibasis gomota*
3	Rice Swift	*Borbo cinnara*
4	Chestnut Bob	*Iambrix salsala*
5	Colon Swift	*Caltoris cara*
6	Straight Swift	*Pelopidas guttatus*
7	Large Branded Swift	*Pelopidas sinensis*
8	Glassy Bluebottle	*Graphium cloanthus*
9	Common Jay	*Graphium dorson axion*
10	Common Bluebottle	*Graphium sarpedon*
11	White Dragontail	*Leptocircus curius*
12	Fivebar Swordtail	*Pathysa antiphates*
13	Redbreast	*Princeps alcmenor*
14	Common Ravern	*Princeps castor*
15	Lime Butterfly	*Princeps demolrus*
16	Great Mormon	*Princeps memnon*
17	Yellow Helen	*Princeps nephelus*
18	Common Peacock	*Princeps polyctor*
19	Common Mormon	*Princeps polytes romulus*
20	Sprangle	*Princeps protenor euprotrnor*
21	Golden Birdwing	*Triodes aeacus*
22	Common Birdwing	*Triodes Helena cereberus*
23	Chocolate Albatross	*Appias lyncida elenora*

24	Common Emigrant	*Catopsilia pomona*
25	Lesser Gull	*Cepora nadina*
26	Redbased Jezebel	*Delias aglaia*
27	Redspot Jezebel	*Delias descmbesi descombesi*
28	One Spot Grass Yellow	*Eurema andersoni andersoni*
29	Three Spot Grass Yellow	*Eurema blanda silhetana*
30	Small Grass Yellow	*Eurema brigitta rubella*
31	Common Grass Yellow	*Eurema hecabe contubernalis*
32	Chocolate Grass Yellow	*Eurema sari*
33	Three Yellow	*Grandaca harins assamica*
34	Great Orangetip	*Hebomoia glaucippe*
35	Psyche	*Leptosia nina nina*
36	Pale Wanderer	*Pareonia avatar avatar*
37	Large Cabbage White	*Pieris brassicae mepalensis*
38	Indian Cabbage White	*Pieris canidia indica*
39	Dark Clouded Yellow	*Colias fieldii*
40	Common Castor	*Ariadne meroine assama*
41	Unbroken Sergeant	*Atlyma pravara*
42	Leopard Lacewing	*Cethosia cyane*
43	Tawny Rajah	*Charaxes Polyxenia*
44	Large Yeoman	*Cirochora aoris*
45	Common Yeoman	*Cirrochora Tyche*
46	Common Map	*Cyrestus thyodamas thyodamas*
47	Common Tiger	*Danaus (Salathura) genutia*
48	Plain Tiger	*Danaus chrysippus*
49	Autumn Leaf	*Doleschallia bisaltidae*
50	Common Palmfly	*Elymnias hypermnestra undularis*
51	Magpie Crow	*Euploea radmanthus*
52	Double Branded Crow	*Euploea sylvester*
53	Circe	*Hestina nama*
54	Great Eggfly	*hypolimnas bolina*
55	Orange Oakleaf	*Kallima inachus inachus*
56	Blue Admiral	*Kaniska canace canace*
57	Yellow Jack Sailer	*Lassipa viraja viraja*
58	Burmese Lascar	*Lassipa heliodore*
59	Ark Duke	*Lexias pardalis*
60	Common Evening Brown	*Melanitis leda ismene*
61	Dark Evening Brown	*Melanitis phedima bela*
62	Commander	*Moduza procris procris*
63	Common Bush Brown	*Mycalesis perseusblasius*
64	Common Sailer	*Neptis hylas varmona*
65	Sullied Sailer	*Neptis soma soma*
66	Yerburis's Sailer	*Neptis yerburi*
67	Nigger	*Orsotrioena medus medus*
68	Common Lascar	*Pantoporia hordonia hordonia*
69	Glassy Tiger	*Parantica aglea melanoides*

70	Common Sergernt	*Parathyma perius*
71	Black-Veined Sageant	*Parathyma ranga ranga*
72	Common Leopard	*Phalanta phalantha*
73	Common Nawab	*Polyura athamas athamas*
74	Peacock Pansy	*Precis almanac*
75	Grey Pansy	*Precis atlites*
76	Chocolate Soldier	*Precis iphita*
77	Common Jester	*Symbrenthia lilaea khasiana*
78	Common Earl	*Tanaecia julii appiades*
79	Grey Count	*Tanaecia lepidea lepidea*
80	Blue Tiger	*Tirumala limniace leopardus*
81	Darkband Bushbrown	*Vanesa indica indica*
82	Common Fivering	*Ypthima baldus*
83	Common Fouring	*Ypthima hubenri hubenri*
84	Yellow Coaster	*Acraea issoria*
85	Common Hadge-Blue	*Acetolepis puspa gisca*
86	Indian Red Flash	*Bespa milampus*
87	Elbowed Pierrot	*Caleta elna noliteia*
88	Common Pierrot	*Castalius rosimon rosimon*
89	Lime blue	*Chilades laius*
90	Purple Sapphire	*Heliophorus epicles indicus*
91	Royal Cerulean	*Jamides coerulea*
92	Glistering Cerulean	*Janides elpis palissa*
93	Peablue	*Lampides boeticus*
94	Yamfly	*Loxura tripunctuat*
95	Common Gem	*Poritia hewitsoni hewitsoni*
96	Banded Line Blue	*Prosotas aluta coelestis*
97	Dark Grass Blue	*Pseudozizeeria maha*
98	Common Acacia Blue	*Surendra quercetorum quercetorum*
99	Zebra Blue	*Syntarucus plinius*
100	Blue Imperial	*Ticherra acte*
101	Copper Flash	*Vadebra petosivis*
102	Punchinello	*Zemeros flegyas indicus*
103	Fluffy Tip	*Zeltus amasa*
104	Lesser Grass Blue	*Zizina otis*
105	Tiny Grass Blue	*Zizula hylax*

ORCHIDS

1	*Acampe papillosa (Lindl) Lindl*
2	*Acampe Regida (Buch.Ham.ex J F Smith) P. F.hunt*
3	*Aerides multiflorum Roxb*
4	*Aerides odoratum Lour*
5	*Aerides rosea Lodd ex Lindl. & paxt*
6	*Bulbopyllum delitescence Hance*
7	*Bulbophyllum odorantissum (J.E.Smith) Lindl*
8	*Celeisostomaappendiculatum (Lindl)Benth&Hook.f.ex.Jackson*
9	*Cleisosoma subulatum Blume*
10	*Cymbidium aloifolium (Lindl) Swartz*
11	*Cymbidium bicolor Lindl*
12	*Cymbidium dauanum Reichb. F.*
13	*Dendrobium aduncum Well*
14	*Dendrobium aphyllum (Roxb) C.E.C. Fisher*
15	*Dendrobium fimbriatum Hook*
16	*Dendrobium lituiflorum Lindl.*
17	*Dendrobium nobile Lindl.*
18	*Dendrobium moschatum Seartz.*
19	*Dendrobium transporens Lindl*
20	*Eriea pubescens(Hook) Lindl.*
21	*Eulophis hormushii Dulhi. (Terrestrial*
22	*Flickingeria fugax (Reichb. F.) Scidenf.*
23	*Gastrochilus calceotaris*
24	*Gastrochilus dasypogon*
25	*Gastrochilus inconspicum*
26	*Habenria stenopetala*
27	*Kingidium deliciosa*
28	*Liparis longipes Lindl.*
29	*Luisa trichorhiza (hook) Blume*
30	*Micropero rostratum (Roxb) Balakr.*
31	*Oberonia iridifolia Lindl.*
32	*Papilionanthe terea (Roxb)Schltr.*
33	*Pholidota pallida Lindl.*
34	*Pronatocalpa undulatum (Reichb.f) J.J.Smith,*
35	*Rhynocostylis albiflora Barua & Bora*
36	*Rhynostylis Retusa (Lindl.)Blume.*
37	*Robiquetia spathulata (Blume) J.J.Smith*
38	*Zeuxine lindeyana A.N,Rao (Terrestrial)*

Table -1. Damage of Sericultural Plantation and rearing on govt. & private sector nearby BAGHJAN blow out area.

Sl. No.	Name of Eri culture practicing area near by BAGHJAN OIL FIELD.	Name of Villages	Areal distance from Baghjan blasting area	Damage of Eri host Plant by burn or air pollution		Damage of Eri rearing by barn or air pollution		Number of the Victimised Families	Remarks
				Govt.	Private	Govt.	Private		
1.	Baghjan	Baghjan Gaon	.5 to 1 KM radius	Nil	450 nos., Kesseru & Castor Plants (approx).	Nil	600 Lays	3o Nos.	
		Natun Rangagora gaon	1 to.1.5 KM radius	Nil	500 nos. Kesseru & Castor Plants (approx).	Nil	500 lays	25 Nos.	
		Dighal tarang	1 to 2 .KM radius	Nil	No record	Nil	No record		Inhabitant of that area not practicing Sericulture as this area belongs to tea garden.
		Gotong gaon		Nil	No record	Nil	No record		
		Koliapani gaon		Nil	No record	Nil	No record		
		Purani matapung		Nil	No record	Nil	No record		
2.	Barekuri area	Total 21nos villages are covered		Nil	No record	Nil	No record		No such remarkable impact is found in this area on sericulture activity.

Submitted by-

Assistant Director of Sericulture
Tinsukia

Total. 2 Estimation of the losses and Productivity in the Baghjan area-

Sl No.	Total Nos. of rearers In the village	Total nos. of Food plants Damaged	Total nos. of laying reared	Total Nos. of cocoons will be obtained by each	Total estimate output will be	Pupae produced Nos.	Cut cocoons produced	Total Losses in rearing	Remarks
1	30 nos. at Baghjan	450 Nos. (15 Nos. each)	600 lays	5000 nos.	1.5 Lakh	1.5 Lakhs @Re1/- per pupa= 1,50,000/-	60 Kg. @ Re 750/- per kg = Rs. 45,000/-	Rs 1,95,000/-	
2.	25 Nos. at Natun Rangagora gaon	375 Nos. (15 nos. each)	500 lays	5000 nos.	1,25,000 nos.	1,25,000nos. @Re 1/- per pupae= Rs 1,25,000/-	50 kg @Rs750/- per kg= Rs 37,500/-	Rs. 1,62,500/-	
						Grand total Lost	**Rs.**	**3,57,500/-**	**(Approx)**

Submitted by-

Assistant Director of Sericulture
Tinsukia

Table 3 Estimated Lost of Individual farmers:-

A. ERI Silkworm rearing lost : - Each farmer usually used to rear 20 Lays of Eri seed.

20 Lays of Eri rearing produced = 5000 Nos. Cocoons @1/-per pupa

Income - 1. Pupa sell =5000 nos. = Rs. 5000/-

2. Cut cocoons = 2 Kg. @ 750/per Kg = Rs. 1500/-

Total Rs. 6500/- (Approx.)

B. Plantation Lost :- **15** Nos. of Matured Kessaru Plants of each Farmers.(Approx.)

Submitted by-

Assistant Director of Sericulture
Tinsukia

Govt. of Assam
OFFICE OF THE ASSISTANT DIRECTOR OF SERICULTURE: TINSUKIA.
TINSUKIA

No. ADS/Tin/E Pol./02 Dated, Tinsukia the 23rd June. 2020.

From: Sri Amal Podum Konwar
Assistant Director of Sericulture,
Tinsukia

To: The Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

Reference: Your Letter No. OMEC/MKY/BGN-5/2020/L01/10.Dt. 15.6.2020

Respected Sir,

This is to inform you that as per your letter received from your end ,here I have produced a report on Damage of sericulture production, silkworm host plant in both Govt. and private sector particularly in the Baghjan Blow out area as mention below:-

After blow out the natural gases from the Baghjan drilling well, We had already done a departmental enquiry regarding any lost and damages on sericultural productivity due to the air pollution which may caused by the natural gases. At that time we have not found such remarkable lost on sericultural productivity.

Now, after blasting on 9th June, it covered a large area with fire and dark smooch which create some lost of sericultural Industry. As per your instruction, we have again conducted survey surrounding areas of Baghjan and prepared the study report.

As per old records there was a village, name Khajuati Village, in the north side of the Baghjan and in the bank of Brahmaputra. Maximum people of that Village, practices traditional Eri Silkworm rearing, due to sudden occurrence of flood in the year2007-08 in that region, all the inhabitants of that village was shifted to Makum, Bhimpara. But people of that village did not left their tradition and still continuing Eri rearing.

Due to present pandemic situation (Covid-19), it is difficult to conduct door to door survey at Baghjan and near-by villages. In spite of that, our officers did genuine survey and collected many valuable information and those which are left out in future we will again continue the survey work when the situation will be normal.

Our Extension Officer and Field officer has visited the Baghjan and nearby area, did interaction with several rural women in different relief camps namely 1. Deomali cha bagicha 2 No. Prathomic Vidyalaya

2. Barekuri ME School

3. Rupkonwar Jatiya Vidyalaya, Baghjan. (Photos enclosed. Field officers interaction with villagers in the camp).

From the interaction we came to know that Eri silkworm rearing is predominantly practised in Baghjan area, they are not commercial silkworm rearer, and they did Eri Silkworm rearing only for their own consumption (pupa for eating and silk for weaving). In that area there is no any Govt. Farm and Centres

As we know that, Eri Silkworm fed on Kesseru (Heteropanax fragrans), Barpat (Ailanthus grandis) and Castor Plant. Castor is an annual food plants , where as Kesseru and Borpat is a perennial trees, and from the interaction with the affected people of Baghjan area we assumed and concluded that few nos. of kesseru and Castor food plants has been lost and damaged. Estimation of total loss and production has been shown in the Table -2

At the end, we assured that in near future if any new scheme will be implemented, our department will endorse all the affected sericulture farmers of that area for their economic upliftment upgradation and also for better future of Sericulture activities.

Submitted By -

Date-23.06.2020. A.D.S. Tinsukia

Field officer interaction with affected villagers in Deomali Cha Bagicha 2 no Prathamic Vidyalaya, Relief Camp.

Submitted by-

ADS Tinsukia

Field officer interaction with affected villagers in Baghjan Rupkonwar Jatiya Vidyalaya, Relief camp.

Submitted by-

ADS Tinsukia

GOVERNMENT OF ASSAM
OFFICE OF THE DISTRICT FISHERY DEV. OFFICER
TINSUKIA

No. AFT-281/2020-21/ 50 Dated 22nd Jun/2020

To,

The Circle Officer

Tinsukia Circle, Tinsukia

Sub : Regarding report on Fish Ponds and fishermen affected by gas leakage at Baghjan oil khad.

Sir,

With reference to the subject cited above and in continuation of earlier report I have the honour to inform you that till date 16 nos. of fish farmer pond and 296 nos. of fisherman has been affected due to the gas leakage at Baghjan oil khad well no.5. The report is not final and more numbers of affected fish farmer and fisherman will be covered in further survey report.

This is for favour of your kind information and necessary action

Your faithfully

Encl:- As stated above

District Fishery Dev. Officer
Tinsukia

Memo No. AFT-281/2020-21/ 51-52 Dated 22nd Jun/2020

Copy to :

1. The Deputy Commissioner, Tinsukia for favour of kind information
2. The Addl. PCCP(WL) & CWLW and one man enquiry committee, Tinsukia for favour of kind information and necessary action.

District Fishery Dev. Officer
Tinsukia

Dist. Fishery Dev. Officer
Tinsukia

List of FISH FARMERS (INDIVIDUAL) AFFECTED DURING THE GAS LEAKAGE AT BAGJAN OIL KHAD UNDER TINSUKIA CIRCLE

Sl. No.	Name	Address	Water area(ha)	Remarks
1.	Bikek Chetia	Gottong	0.14	
2.	Jintu Borgohain	Natun Rangagora	0.14	
3.	Rupanta Borgohain	-do-	0.06	
4.	Utpal Sonowal	Balijan	0.07	
5.	Mohanandra Borgohain	Natun Rangagora	0.04	
6.	Tuluk Borgohain	-do-	0.07	

District Fishery Dev. Officer
Tinsukia

List FISHER MEN AFFECTED DURING THE GAS LEAKAGE AT BAGJAN OIL KHAD (Guijan Block)under Tinsukia Circle.

Sl. No.	Name	Address	Remarks
1.	Dhurbajyotikhanikar	Natun Gaon	
2.	Babul Dutta	NatunRangagora	
3.	BiplobGogoi	GottongMilanpur	
4.	PrashantaGharpholia	-do-	
5.	NakuGharpholia	-do-	
6.	Akon gogoi	-do	
7.	Jintu gogoi	Gottong	
8.	Jitu Gharpholia	-do-	
9.	Bishajit Baruah	-do-	
10.	Indrajit Mohan	-do-	
11.	Amit Mohan	-do-	
12.	Bijoy Gohain	-do-	
13.	Sanjit karmakar	-do-	
14.	Ranjit Karmakar	-do-	
15.	Akash Karmakar	-do-	
16.	Sunil Sarkar	-do-	
17.	Raman Nagbongsi	-do-	
18.	Birehu Mahatu	-do-	
19.	Panda Proja	Natun Rangagora	
20.	Hemonta Gogoi	Gottong Milanpur	
21.	Putul Patar	-do-	
22.	Dudu Gogoi	-do-	
23.	Ramen Gogoi	-do-	
24.	Midul patar	-do-	
25.	Midul Gogoi	-do-	
26.	Tagar Khanikar	-do-	
27.	Kukhumbar Khanikar	-do-	
28.	Bikul Gharphalia	-do-	
29.	Babul Gharpholia	-do-	
30.	Boisha Gogoi	-do-	
31.	Dinesh Neog	Natun Rangagora	
32.	Promud Neog	-do-	
33.	Bipin Goyari	-do-	
34.	Achut Phukan	Gottong	
35.	Mantu Phukan	-do-	
36.	Promud Phukan	-do-	
37.	Hukhen Gogoi	-do-	

38.	Sukhen Gogoi	-do-	
39.	Rajen Duwarah	-do-	
40.	Sanjit Duwarah	-do-	
41.	Lakhan Duwarah	-do-	
42.	Debakanta Gogoi	-do-	
43.	Grish Chandra Gogoi	-do-	
44.	Sadhan Dutta	Gottong	
45.	Fuleswar Gogoi	-do-	
46.	Nozen Chetia	-do-	
47.	Ananta Gogoi	-do-	
48.	Jiten Gogoi	-do-	
49.	Lakhandra Gogoi	-do-	
50.	Pratull Gogoi	-do-	
51.	Arup Borgohain	Gottong	
52.	Bhashkar Borgohain	-do-	
53.	Babul Patar	-do-	
54.	Juda patar	-do-	
55.	Maymon Gogoi	-do-	
56.	Dhoneswar gogoi	-do-	
57.	Prasanta gogoi	Gottong	
58.	Sikun Mahan	-do-	
59.	Ajoy Gogoi	-do-	
60.	Prakash gogoi	-do-	
61.	Rintu gogoi	-do-	
62.	Losya gogoi	-do-	
63.	Pralash Phukan	-do-	
64.	Binandra chetia	-do-	
65.	Ananta gogoi	-do-	
66.	Mohesh gogoi	Natun Rongagora	
67.	Jun gogoi	Natun gaon	
68.	Utpal Gharpholia	Natun Rongagora	
69.	Ananta Chenapati	Natun Rongagora	
70.	Prabitra Mohan	Gottong	
71.	Sntajit Gohain	-do-	
72.	Ramakanta Khanikar	-do-	
73.	Huneswar Khanikar	-do-	
74.	Rajani gogoi	-do-	
75.	Rajib Gohain	-do-	
76.	Jitul gogoi	-do-	
77.	Bharat gogoi	-do-	
78.	Lakhinath gogoi	-do-	
79.	Harukan gogoi	-do-	

80.	Aprit Borgohain	Natun Rongagora	
81.	Ajen Borgohain	Natun Rongagora	
82.	Hirakjyoti Hatibaruah	-do-	
83.	Akhim Borgohain	-do-	
84.	Utpal Gharphila	-do-	
85.	Bikash Borgohain	-do-	
86.	Tuluk Borgohain	-do-	
87.	Mantu Borgohain	-do-	
88.	Ritopon Borgohain	-do-	
89.	Goutom Gowala	Natun Rongagora	
90.	Raja Gowala	-do-	
91.	Soutom Gowala	-do-	
92.	Heo Nagbongchi	Gottong	
93.	Petu Nagbongchi	-do-	
94.	Ramu Nagbongchi	-do-	
95.	Sadiya Nagbongchi	-do-	
96.	Gacha Nagbongchi	-do-	
97.	Petera Nagbongchi	-do-	
98.	Chunu Nagbongchi	-do-	
99.	Ratko Nagbogchi	-do-	
100.	Assam Nagbongchi	-do-	
101.	Khesera Nagbongchi	-do-	
102.	Nandeswar gogoi	-do-	
103.	Promud Phukan	Natun Rongagora	
104.	Jitu Borgohain	-do-	
105.	Dipok Neog	-do-	
106.	Bitupan Borgohain	-do-	
107.	Prahanta Phukan	-do-	
108.	Bhrigu gogoi	Gottong Milanpur	
109.	Amulaya Phukan	-do-	
110.	Jiten Phukan	-do-	
111.	Munin gogoi	-do-	
112.	Mana gogoi	-do-	
113.	Lilaram gogoi	-do-	
114.	Mihindra gogoi	-do-	
115.	Brojen Gharphulia	-do-	
116.	Premedial Gharphalia	-do-	
117.	Hundat Gharphalia	-do-	
118.	Anil Gharphalia	-do-	
119.	Makhan Hatibaruah	Gottong	
120.	Jutish Hatibaruah	-do-	
121.	Mantu Hatibaruah	-do-	

122.	Dulu Gharpholia	-do-	
123.	BijoyPhokan	-do-	
124.	Sarath Phukan	-do-	
125.	Jiskel Neog	-do-	
126.	Tinku Kharia	-do-	
127.	Durga Nagbongchi	-do-	
128.	Biru Nagbongchi	-do-	
129.	Lakhi Gogoi	-do-	
130.	Rajet Charphila	-do-	
131.	Siku Gharphila	-do-	
132.	Bulen gogoi	Gottong Milanpur	
133.	Ruben Gogoi	-do-	
134.	Gakul gogoi	-do-	
135.	Amit gogoi	-do-	
136.	Humeswar Khanikar	-do-	
137.	Ramanandra Khanikar	-do-	

District Fishery Dev. Officer
Tinsukia

District Fishery Dev. Officer
Tinsukia

GOVERNMENT OF ASSAM
OFFICE OF THE DISTRICT FISHERY DEV. OFFICER
TINSUKIA

No. AFT-281/2020-21/ Dated 20th Jun/2020

To,

The Circle Officer

Doomdooma Circle

Sub : Regarding report on Fish Ponds and fishermen affected by gas leakage at Baghjan oil khad.

Sir,

With reference to the subject cited above I have the honour to inform you that till date 70nos. of fish farmer pond(Individual) , 2 nos.Community Tank and 849 (Sl no.1 to 387) and (Sl no.1 to 462) nos. of fisherman has been affected due to the gas leakage at Baghjan oil khad well no.5. The report is not final and more numbers of affected fish farmer and fisherman will be covered in further survey report.

This is for favour of your kind information and necessary action

Your faithfully

Encl:- As stated above

District Fishery Dev. Officer
Tinsukia

Memo No. AFT-281/2020-21/ 48-49 Dated 20th Jun/2020

Copy to :

1. The Deputy Commissioner, Tinsukia for favour of kind information.
2. The Addl. PCCP(WL) & CWLW and one man enquiry committee, Tinsukia for favour of kind information and necessary action.

District Fishery Dev. Officer
Tinsukia

Dist. Fishery Dev. Officer
Tinsukia

List of FISH FARMERS (INDIVIDUAL) AFFECTED DURING THE GAS LEAKAGE AT BAGJAN OIL KHAD

Sl. No.	Name	Address	Water area (ha)	Remarks
1.	Sri Kiron Gohain	Goriating village, P.O. Borgaon	0.07	
2.	Sri Fotick Chutia	-do-	0.14	
3.	Sri Sujyajun Chutia	-do-	0.07	
4.	Sri Nikendra Chawrok	-do-	0.07	
5.	Sri Pronob Chutia	-do-	0.14	
6.	Sri Liheshwar Chawrok	-do-	0.07	
7.	Sri Lobon Chawrok	-do-	0.07	
8.	Sri Arun Chutia	-do-	0.07	
9.	Sri Dilip Chutia	-do-	0.07	
10.	Sri Abdul Chawrok	-do-	0.07	
11.	Sri Rupnath Chutia	-do-	0.07	
12.	Sri Dhonjyoti Chawrok	-do-	0.07	
13.	Sri Paniram Chutia	Puroni Motapong P.O. Borgaon	0.14	
14.	Sri Gojin Chutia	-do-	0.14	
15.	Sri Madan Chutia	-do-	0.14	
16.	Sri Anjumoni Chutia	-do-	0.056	
17.	Sri Bapkon Chutia	-do-	0.056	
18.	Sri Biswajit Chutia	-do-	0.112	
19.	Sri Pobitra Chutia	-do-	0.14	
20.	Sri Dhaniram Chutia	-do-	0.14	
21.	Sri Girin Chutia	-do-	0.14	
22.	Sri Thaneswar Chutia	-do-	0.14	
23.	Sri Apurba Chutia	-do-	0.77	
24.	Sri Biren Chutia	-do-	0.77	
25.	Sri Abhijit Chutia	-do-	0.14	
26.	Sri Redip Chutia	-do-	0.14	
27.	Sri Promod Chutia	-do-	0.14	
28.	Sri Mahikanta Chutia	-do-	0.14	
29.	Sri Kundeswar Moran	-do-	0.14	
30.	Sri Tankeswar Moran	-do-	0.14	
31.	Sri Ramesh Chutia	-do-	0.21	
32.	Sri Gakul Chutia	-do-	0.14	
33.	Sri Ravit Chutia	-do-	0.14	
34.	Sri Pradip Chutia	-do-	0.14	
35.	Sri Hanatan Bhumij	-do-	0.14	
36.	Sri Thaneswar Dowerah	-do-	0.14	
37.	Sri Sunil Chutia	-do-	0.14	
38.	Sri Nakul Chutia	-do-	0.42	
39.	Sri Dambaru Chutia	-do-	0.14	
40.	Sri Putul Chutia	-do-	0.14	
41.	Sri Thapeswar Dowerah	-do-	0.14	
42.	Sri Hiren Dowerah	-do-	0.14	
43.	Sri Gateswar Dowerah	-do-	0.14	
44.	Sri Dibakar Dowerah	-do-	0.14	
45.	Sri Hukeswar Dowerah	-do-	0.14	
46.	Sri Man Chutia	-do-	0.21	
47.	Sri Likow Chutia	-do-	0.14	

48.	Sri Firoj Chutia	-do-	0.14	
49.	Sri Pulin Chutia	-do-	0.14	
50.	Sri Abani Chutia	-do-	0.14	
51.	Sri Indeswar Chutia	-do-	0.14	
52.	Sri Lambar Chutia	-do-	0.14	
53.	Sri Kukhal Chutia	-do-	0.14	
54	Bhabesh Moran	Bagjan gaon	0.63	
55	Bhupen Moran	-do-	0.574	
56	Janadhan Moran	-do-	0.028	
57	Hananjyoti Gohain	-do-	0.14	
58	Rajen Moran	-do-	0.028	
59	Polin Moran	-do-	0.112	
60	Gandheswar Hazarikia	-do-	0.028	
61	Sukheswar Hazarikia	-do-	0.028	
62	Milon Moran	-do-	0.07	
63	Bhuga Neog	-do-	0.07	
64	Surajit Neog	-do-	0.07	
65	Liteswar Moran	-do-	0.028	
66	Moniram Moran	-do-	0.028	
67	Gahin Neog	-do-	0.07	
68	Dipak Moran	-do-	0.042	
69	Putul Neog	-do-	0.07	
70.	Bitupan Neog	-do	0.35	

Surveyed by

Fishery Field Asstt.
Kakopather Dev. Block

Bagjan

District Fishery Dev. Officer
Tinsukia

Dist. Fishery Dev. Officer
Tinsukia

List COMMUNITY TANK AFFECTED DURING THE GAS LEAKAGE AT BAGJAN OIL KHAD

Sl. No.	Name	Address	Water area (ha)	Remarks
1.	Puroni Motapung Namghar Committee community tank	Puroni Motapung village, P.O. Borgaon	0.14	

Fishery Field Asstt.
Kakopather Dev. Block

District Fishery Dev. Officer
Tinsukia

Dist. Fishery Dev. Officer
Tinsukia

List (SHG POND) AFFECTED DURING THE GAS LEAKAGE AT BAGJAN OIL KHAD

Sl. No.	Name	Address	Water area	Remarks
1.	OM Self Help Group (pen Aquaculture in Maguri Motapung Beel)	2 No,Puroni Motapung village, P.O. Borgaon	0.25ha	

District Fishery Development Officer
Tinsukia

Dist. Fishery Dev. Office
Tinsukia

Survey by
1
20/04/2020
Fishery Field Asstt.
Kakopather Dev. Block
Help in

List FISHER MEN AFFECTED DURING THE GAS LEAKAGE AT BAGJAN OIL KHAD

Sl. No.	Name	Address	Remarks
1.	Jitu Moran	Goriating village, P.O. Borgaon	
2	Digambar Moran	Goriating village, P.O. Borgaon	
3	Prosanta Moran	Goriating village, P.O. Borgaon	
4	Cheniram Chutia	Goriating village, P.O. Borgaon	
5	Birun Moran	Goriating village, P.O. Borgaon	
6	Puspodhar Moran	Goriating village, P.O. Borgaon	
7	Monuj Moran	Goriating village, P.O. Borgaon	
8	Arun Chutia	Goriating village, P.O. Borgaon	
9	Pobitra Chutia	Goriating village, P.O. Borgaon	
10	Labaram Chutia	Goriating village, P.O. Borgaon	
11	Gopinath Chutia	Goriating village, P.O. Borgaon	
12	Girinda Gohain	Goriating village, P.O. Borgaon	
13	Kulamon Gohain	Goriating village, P.O. Borgaon	
14	Aditya Gohain	Goriating village, P.O. Borgaon	
15	Pradyut Chawrok	Goriating village, P.O. Borgaon	
16	Smti Rongeswari Chawrok	Goriating village, P.O. Borgaon	
17	Munindra Moran	Goriating village, P.O. Borgaon	
18	Sunit Moran	Goriating village, P.O. Borgaon	
19	Boshanta Chutia	Goriating village, P.O. Borgaon	
20	Dhirot Chutia	Goriating village, P.O. Borgaon	
21	Smti Niroda Chitia	Goriating village, P.O. Borgaon	
22	Moina Chutia	Goriating village, P.O. Borgaon	
23	Himanta Chutia	Goriating village, P.O. Borgaon	
24	Dipty Chutia	Goriating village, P.O. Borgaon	
25	Pulok Chutia	Goriating village, P.O. Borgaon	
26	Topan Chutia	Goriating village, P.O. Borgaon	
27	Achinta Chutia	Goriating village, P.O. Borgaon	
28	Mridul Chutia	Goriating village, P.O. Borgaon	
29	Jitul Chutia	Goriating village, P.O. Borgaon	
30	Pukhen Chutia	Goriating village, P.O. Borgaon	
31	Dijit Chutia	Goriating village, P.O. Borgaon	
32	Humeswar Chutia	Goriating village, P.O. Borgaon	
33	Smti Dibyalater Chutia	Goriating village, P.O. Borgaon	
34	Smti Jeoti Chowrok	Goriating village, P.O. Borgaon	
35	Sri Anteswar Chawrok	Goriating village, P.O. Borgaon	
36	Abdul Chawrok	Goriating village, P.O. Borgaon	
37	Arjun Chawrok	Goriating village, P.O. Borgaon	
38	Kartik Chawrok	Goriating village, P.O. Borgaon	
39	Ambagaj Chawrok	Goriating village, P.O. Borgaon	
40	Tonuram Chowrok	Goriating village, P.O. Borgaon	
41	Abinash Chawrok	Goriating village, P.O. Borgaon	
42	Lobon Chawrok	Goriating village, P.O. Borgaon	
43	Ronebre Chawrok	Goriating village, P.O. Borgaon	
44	Okoy Chawrok	Goriating village, P.O. Borgaon	
45	Rajesbar Chawrok	Goriating village, P.O. Borgaon	
46	Tonu Chawrok	Goriating village, P.O. Borgaon	
47	Bimal Chawrok	Goriating village, P.O. Borgaon	

48	Diganta Chawrok	Goriating village, P.O. Borgaon	
49	Binoda Chawrok	Goriating village, P.O. Borgaon	
50	Sailen Chawrok	Goriating village, P.O. Borgaon	
51	Shanta Chawrok	Goriating village, P.O. Borgaon	
52	Lilesware Chawrok	Goriating village, P.O. Borgaon	
53	Bijoy Chutia	Goriating village, P.O. Borgaon	
54	Pranab Chutia	Goriating village, P.O. Borgaon	
55	Topeswar Chawrok	Goriating village, P.O. Borgaon	
56	Dudul Chawrok	Goriating village, P.O. Borgaon	
57	Dpu Chawrok	Goriating village, P.O. Borgaon	
58	Susen Chawrok	Goriating village, P.O. Borgaon	
59	Moghanta Chawok	Goriating village, P.O. Borgaon	
60	Satyajit Chawrok	Goriating village, P.O. Borgaon	
61	Bireswar Chawrok	Goriating village, P.O. Borgaon	
62	Hemabanta Chawrok	Goriating village, P.O. Borgaon	
63	Dipty Chawrok	Goriating village, P.O. Borgaon	
64	Ghankanta Chawrok	Goriating village, P.O. Borgaon	
65	Mihidhar Chawrok	Goriating village, P.O. Borgaon	
66	Janak Chawrok	Goriating village, P.O. Borgaon	
67	Pranjit Chawrok	Goriating village, P.O. Borgaon	
68	Romesh Chawrok	Goriating village, P.O. Borgaon	
69	Bipul Chawrok	Goriating village, P.O. Borgaon	
70	Nikendra Chawrok	Goriating village, P.O. Borgaon	
71	Nikesh Chawrok	Goriating village, P.O. Borgaon	
72	Sohojyoti Kalita	Goriating village, P.O. Borgaon	
73	Bolidhar Chawrok	Goriating village, P.O. Borgaon	
74	Pilik Chawrok	Goriating village, P.O. Borgaon	
75	Raju Chutia	Goriating village, P.O. Borgaon	
76	Dighali Chawrok	Goriating village, P.O. Borgaon	
77	Abhinab Chawrok	Goriating village, P.O. Borgaon	
78	Anup Chawrok	Goriating village, P.O. Borgaon	
79	Phonidhr Chawrok	Goriating village, P.O. Borgaon	
80	Tarun Chawrok	Goriating village, P.O. Borgaon	
81	Kame Gogoi	Goriating village, P.O. Borgaon	
82	Santush Chawrok	Goriating village, P.O. Borgaon	
83	Jiten Chawrok	Goriating village, P.O. Borgaon	
84	Baneswar Chawrok	Goriating village, P.O. Borgaon	
85	Robing Chawrok	Goriating village, P.O. Borgaon	
86	Noren Chawrok	Goriating village, P.O. Borgaon	
87	Mali Chawrok	Goriating village, P.O. Borgaon	
88	Rupon Chawrok	Goriating village, P.O. Borgaon	
89	Smti Maghali Chawrok	Goriating village, P.O. Borgaon	
90	Sri Hogrjit Chawrok	Goriating village, P.O. Borgaon	
91	Poragjyoti Chawrok	Goriating village, P.O. Borgaon	
92	Peson Chutia	Goriating village, P.O. Borgaon	
93	Hujyojum Chutia	Goriating village, P.O. Borgaon	
94	Prodyut Chutia	Goriating village, P.O. Borgaon	
95	Pukhon Chawrok	Goriating village, P.O. Borgaon	
96	Sunit Chawrok	Goriating village, P.O. Borgaon	
97	Proffella Chawrok	Goriating village, P.O. Borgaon	
98	Ridip Chawrok	Goriating village, P.O. Borgaon	

99	Junt Chawrok	Goriating village, P.O. Borgaon	
100	Puheswar Chawrk	Goriating village, P.O. Borgaon	
101	Luhit Chawrok	Goriating village, P.O. Borgaon	
102	Azand Chawrok	Goriating village, P.O. Borgaon	
103	Photik Chutia	Goriating village, P.O. Borgaon	
104	Bogi Chutia	Goriating village, P.O. Borgaon	
105	Lupu Chutia	Goriating village, P.O. Borgaon	
106	Sujit Chutia	Goriating village, P.O. Borgaon	
107	Tomeswar Gohain	Goriating village, P.O. Borgaon	
108	Prodip Chawrok	Goriating village, P.O. Borgaon	
109	Sonjib Chutia	Goriating village, P.O. Borgaon	
110	Sonjoy Chutia	Goriating village, P.O. Borgaon	
111	Probin Gohain	Goriating village, P.O. Borgaon	
112	Likheswar Chutia	Goriating village, P.O. Borgaon	
113	Ajoy Chawrok	Goriating village, P.O. Borgaon	
114	Priyonatn Gohain	Goriating village, P.O. Borgaon	
115	Papu Chutia	Goriating village, P.O. Borgaon	
116	Diganta Chutia	Goriating village, P.O. Borgaon	
117	Hemnta Chawrok	Goriating village, P.O. Borgaon	
118	Tulu Chawrok	Goriating village, P.O. Borgaon	
119	Gedul Chawrok	Goriating village, P.O. Borgaon	
120	Gohin Chawrok	Goriating village, P.O. Borgaon	
121	Raju Chutia	Goriating village, P.O. Borgaon	
122	Dhanti Gohain	Goriating village, P.O. Borgaon	
123	Bikash Gohain	Goriating village, P.O. Borgaon	
124	Biseswar Gohain	Goriating village, P.O. Borgaon	
125	Promod Chawrok	Goriating village, P.O. Borgaon	
126	Lolit Chawrok	Goriating village, P.O. Borgaon	
127	Mileswar Chawrok	Goriating village, P.O. Borgaon	
128	Kiron Gohain	Goriating village, P.O. Borgaon	
129	Nipul Gohain	Goriating village, P.O. Borgaon	
130	Hurandra Gohain	Goriating village, P.O. Borgaon	
131	Umesh Gohain	Goriating village, P.O. Borgaon	
132	Prodin Gohain	Goriating village, P.O. Borgaon	
133	Kushumbar Boru	Goriating village, P.O. Borgaon	
134	Smti Surekha Tanti	Goriating village, P.O. Borgaon	
135	Sri Monjit Gohain	Goriating village, P.O. Borgaon	
136	Akash Gohain	Goriating village, P.O. Borgaon	
137	Abikarl Gohain	Goriating village, P.O. Borgaon	
138	Mukul Gohain	Goriating village, P.O. Borgaon	
139	Jyotish Chawrok	Goriating village, P.O. Borgaon	
140	Bishal Kishan	Hatibat 4no. Purani Motapung, P.O. Borgaon	
141	Lalbabu Kishan	Hatibat 4no. Purani Motapung, P.O. Borgaon	
142	Ajoy Porja	Hatibat 4no. Purani Motapung, P.O. Borgaon	
143	Ganesh Porja	Hatibat 4no. Purani Motapung, P.O. Borgaon	
144	Bijoy Porja	Hatibat 4no. Purani Motapung, P.O. Borgaon	
145	Pabitra Juria	Hatibat 4no. Purani Motapung, P.O. Borgaon	
146	Bijoy Deshare	Hatibat 4no. Purani Motapung, P.O. Borgaon	
147	Anup Juria	Hatibat 4no. Purani Motapung, P.O. Borgaon	
148	Ajit Juria	Hatibat 4no. Purani Motapung, P.O. Borgaon	
149	Raghunath Juria	Hatibat 4no. Purani Motapung, P.O. Borgaon	

150	Jiten Porja	Hatibat 4no. Purani Motapung, P.O. Borgaon	
151	Deep Porja	Hatibat 4no. Purani Motapung, P.O. Borgaon	
152	Tiklu Juria	Hatibat 4no. Purani Motapung, P.O. Borgaon	
153	Santu Urang	Hatibat 4no. Purani Motapung, P.O. Borgaon	
154	Rajesh Kanu Murah	Hatibat 4no. Purani Motapung, P.O. Borgaon	
155	Sanjoy Deshari	Hatibat 4no. Purani Motapung, P.O. Borgaon	
156	Aman Garh	Hatibat 4no. Purani Motapung, P.O. Borgaon	
157	Rabin Porja	Hatibat 4no. Purani Motapung, P.O. Borgaon	
158	Uttam Porja	Hatibat 4no. Purani Motapung, P.O. Borgaon	
159	Suraj Porja	Hatibat 4no. Purani Motapung, P.O. Borgaon	
160	Sunil Urang	Hatibat 4no. Purani Motapung, P.O. Borgaon	
161	Sahil Suna	Hatibat 4no. Purani Motapung, P.O. Borgaon	
162	Sunil Kishan	Hatibat 4no. Purani Motapung, P.O. Borgaon	
163	Sunil Kashap	Hatibat 4no. Purani Motapung, P.O. Borgaon	
164	Ranjit Porja	Hatibat 4no. Purani Motapung, P.O. Borgaon	
165	Ranjit Porja	Hatibat 4no. Purani Motapung, P.O. Borgaon	
166	Ajoy Porja	Hatibat 4no. Purani Motapung, P.O. Borgaon	
167	Daneram Kashap	Hatibat 4no. Purani Motapung, P.O. Borgaon	
168	Mukul Urang	Hatibat 4no. Purani Motapung, P.O. Borgaon	
169	Rajeeb Murah	Hatibat 4no. Purani Motapung, P.O. Borgaon	
170	Sanjib Urang	Hatibat 4no. Purani Motapung, P.O. Borgaon	
171	Ramchandra Juria	Hatibat 4no. Purani Motapung, P.O. Borgaon	
172	Sanjib Chawara	Hatibat 4no. Purani Motapung, P.O. Borgaon	
173	Rambabu Paharia	Hatibat 4no. Purani Motapung, P.O. Borgaon	
174	Abinash Juria	Hatibat 4no. Purani Motapung, P.O. Borgaon	
175	Manuj Kishan	Hatibat 4no. Purani Motapung, P.O. Borgaon	
176	Junash Juria	Hatibat 4no. Purani Motapung, P.O. Borgaon	
177	Chipcharan Kishan	Hatibat 4no. Purani Motapung, P.O. Borgaon	
178	SINGRAI Murah	Hatibat 4no. Purani Motapung, P.O. Borgaon	
179	Ruhit Juria	Hatibat 4no. Purani Motapung, P.O. Borgaon	
180	Anil Murah	Hatibat 4no. Purani Motapung, P.O. Borgaon	
181	Jiten Murah	Hatibat 4no. Purani Motapung, P.O. Borgaon	
182	Chamaru Chawrah	Hatibat 4no. Purani Motapung, P.O. Borgaon	
183	Naresh Gowala	Hatibat 4no. Purani Motapung, P.O. Borgaon	
184	Bidu Deshari	Hatibat 4no. Purani Motapung, P.O. Borgaon	
185	Amit Juria	Hatibat 4no. Purani Motapung, P.O. Borgaon	
186	Sagar Porja	Hatibat 4no. Purani Motapung, P.O. Borgaon	
187	Sankar Murah	Hatibat 4no. Purani Motapung, P.O. Borgaon	
188	Rumit Kashap	Hatibat 4no. Purani Motapung, P.O. Borgaon	
189	Binod Parja	Hatibat 4no. Purani Motapung, P.O. Borgaon	
190	Rima Porja	Hatibat 4no. Purani Motapung, P.O. Borgaon	
191	Rangadhar Murah	Hatibat 4no. Purani Motapung, P.O. Borgaon	
192	Bumit Porja	Hatibat 4no. Purani Motapung, P.O. Borgaon	
193	Dipak Porja	Hatibat 4no. Purani Motapung, P.O. Borgaon	
194	Mileswar Chawrok	Hatibat 2no. Purani Motapung, P.O. Borgaon	
195	Jantu Chawrok	Hatibat 2no. Purani Motapung, P.O. Borgaon	
196	Jutish Chawrok	Hatibat 2no. Purani Motapung, P.O. Borgaon	
197	Amjad Gohain	Hatibat 2no. Purani Motapung, P.O. Borgaon	
198	Mansingh Chutia	Hatibat 2no. Purani Motapung, P.O. Borgaon	
199	Suraj Chutia	Hatibat 2no. Purani Motapung, P.O. Borgaon	
200	Bhrnali Chutia	Hatibat 2no. Purani Motapung, P.O. Borgaon	

201	Hirokjyoti Gohain	Hatibat 2no. Purani Motapung, P.O. Borgaon	
202	Bijun Gohain	Hatibat 2no. Purani Motapung, P.O. Borgaon	
203	Mukhul Gohain	Hatibat 2no. Purani Motapung, P.O. Borgaon	
204	Kandu Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
205	Bali Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
206	Ajay Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
207	Minto Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
208	Junki Nag	Hatibat 2no. Purani Motapung, P.O. Borgaon	
209	Bijen Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
210	Bindiya Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
211	Gobin Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
212	Sanjay Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
213	Romesh Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
214	Asha manu Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
215	Likheswar Chutia	Hatibat 2no. Purani Motapung, P.O. Borgaon	
216	Santanu Chutia	Hatibat 2no. Purani Motapung, P.O. Borgaon	
217	Suresh Chutia	Hatibat 2no. Purani Motapung, P.O. Borgaon	
218	Anjali Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
219	Rohit Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
220	Santi Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
221	Bijun Gohain	Hatibat 2no. Purani Motapung, P.O. Borgaon	
222	Mukul Gohain	Hatibat 2no. Purani Motapung, P.O. Borgaon	
223	Kaustavmoni Chutia	Hatibat 2no. Purani Motapung, P.O. Borgaon	
224	Hemontia Chawrok	Hatibat 2no. Purani Motapung, P.O. Borgaon	
225	Gahin Chawrok	Hatibat 2no. Purani Motapung, P.O. Borgaon	
226	Raju Chutia	Hatibat 2no. Purani Motapung, P.O. Borgaon	
227	Diganta Chutia	Hatibat 2no. Purani Motapung, P.O. Borgaon	
228	Suman Chutia	Hatibat 2no. Purani Motapung, P.O. Borgaon	
229	Papu Chutia	Hatibat 2no. Purani Motapung, P.O. Borgaon	
230	Arup Chutia	Hatibat 2no. Purani Motapung, P.O. Borgaon	
231	Surajit Gohain	Hatibat 2no. Purani Motapung, P.O. Borgaon	
232	Biyot Gohain	Hatibat 2no. Purani Motapung, P.O. Borgaon	
233	Bikash Gohain	Hatibat 2no. Purani Motapung, P.O. Borgaon	
234	Bitupon Gohain	Hatibat 2no. Purani Motapung, P.O. Borgaon	
235	Ajonta Moran	Hatibat 2no. Purani Motapung, P.O. Borgaon	
236	Gopal Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
237	Ajoy Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
238	Amit Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
239	Samrow Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
240	Abor Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
241	Amor Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
242	Ruhit Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
243	Jiban Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
244	Bali Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
245	Sutrn Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
246	Ruhit Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
247	Arun Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
248	Biraj Gohain	Hatibat 2no. Purani Motapung, P.O. Borgaon	
249	Sanjib Chutia	Hatibat 2no. Purani Motapung, P.O. Borgaon	
250	Minoti Nunud	Hatibat 2no. Purani Motapung, P.O. Borgaon	
251	Toneswar Gohain	Hatibat 2no. Purani Motapung, P.O. Borgaon	

252	Aasani Maji	Hatibat 2no. Purani Motapung, P.O. Borgaon	
253	Sanjay Chutia	Hatibat 2no. Purani Motapung, P.O. Borgaon	
254	Bijay Maji	Hatibat 2no. Purani Motapung, P.O. Borgaon	
255	Probin Gohain	Hatibat 2no. Purani Motapung, P.O. Borgaon	
256	Bimla Maji	Hatibat 2no. Purani Motapung, P.O. Borgaon	
257	Sundor Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
258	Anu Noresh	Hatibat 2no. Purani Motapung, P.O. Borgaon	
259	Manab Gohain	Hatibat 2no. Purani Motapung, P.O. Borgaon	
260	Santush Gohain	Hatibat 2no. Purani Motapung, P.O. Borgaon	
261	Tankeswar Chawrok	Hatibat 2no. Purani Motapung, P.O. Borgaon	
262	Pramud Chawrok	Hatibat 2no. Purani Motapung, P.O. Borgaon	
263	Lalit Chawrok	Hatibat 2no. Purani Motapung, P.O. Borgaon	
264	Lilaboti Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
265	Gonesh Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
266	Uttam Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
267	Anon Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
268	Jani Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
269	Janki Sobf Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
270	Promila Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
271	Primoni Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
272	Prodip Chawrok	Hatibat 2no. Purani Motapung, P.O. Borgaon	
273	Susendra Gohain	Hatibat 2no. Purani Motapung, P.O. Borgaon	
274	Rajesh Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
275	Ajoy Chawrok	Hatibat 2no. Purani Motapung, P.O. Borgaon	
276	Diboyjyoti Chawrok	Hatibat 2no. Purani Motapung, P.O. Borgaon	
277	Jogot Chutia	Hatibat 2no. Purani Motapung, P.O. Borgaon	
278	Sumit Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
279	Ajit Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
280	Suraj Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
281	Robin Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
282	Sambarv Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
283	Aomor deep Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
284	Pentiya Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
285	Romesh Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
286	Duru Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
287	Suraj Ver	Hatibat 2no. Purani Motapung, P.O. Borgaon	
288	Akon Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
289	Bima Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
290	Bishal Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
291	Sanju Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
292	Sanjay Maji	Hatibat 2no. Purani Motapung, P.O. Borgaon	
293	Pintu Maji	Hatibat 2no. Purani Motapung, P.O. Borgaon	
294	Juwel Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
295	Kiron Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
296	Dumu Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
297	Nemont Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
298	Bim Nag	Hatibat 2no. Purani Motapung, P.O. Borgaon	
299	Bijoy Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
300	Bijoy Maji	Hatibat 2no. Purani Motapung, P.O. Borgaon	
301	Mohabeer Juriya	Hatibat 2no. Purani Motapung, P.O. Borgaon	
302	Uttam Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	

304	Sam Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
305	Sunil Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
306	Silimon Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
307	Rajen Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
308	Jonok Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
309	Ajit Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
310	Sanjib Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
311	Lakiya Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
312	Ajoy Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
313	Ruhit Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
314	Kumal Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
315	Nirmal Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
316	Biren Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
317	Mohn Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
318	Raju Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
319	Gupal Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
320	Anon Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
321	Sandon Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
322	Gojen Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
323	Poresh Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
324	Kundon Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
325	Jadob Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
326	Bandu Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
327	Siva Poja Nim	Hatibat 2no. Purani Motapung, P.O. Borgaon	
328	Ruhini Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
329	Abinash Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
330	Gubin Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
331	Akash Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
332	Gorutom Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
333	Uttam Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
334	Siba Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
335	Bulen Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
336	Bandv Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
337	Bijen Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
338	Sanjeeb Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
339	Rohit Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
340	Mosto Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
341	Lalpatiya Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
342	Tonay Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
343	Doso Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
344	Ajit Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
345	Kakrango Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
346	Kundan Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
347	Sunil proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
348	Sunil Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
349	Bulan Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
350	Rutan Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
351	Ajit Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
352	Sunil Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
353	Bima Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
354	Jugen Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	

355	Rajen Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
356	Arun Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
357	Jibon Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
358	Bikam Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
359	Ajay Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
360	Topon Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
361	Dinesh Proja	Hatibat 2no. Purani Motapung, P.O. Borgaon	
362	Jutiesh Barla	Chandmari Line, Hatijan	
363	Ram Babu Mallah	Hilika Ghat, Hatijan	
364	Jiten Nag	Chandmari Line, Hatijan	
365	Estifan Mura	Chandmari Line, Hatijan	
366	Dilip Naik	Chandmari Line, Hatijan	
367	Albish Munda	Chandmari Line, Hatijan	
368	Anam Majhi	Chandmari Line, Hatijan	
369	Rajani Sahani	Hilika Ghat, Hatijan	
370	Biktor Induwar	Chandmari Line, Hatijan	
371	Belian Induwar	Chandmari Line, Hatijan	
372	Amit Munda	Chandmari Line, Hatijan	
373	Ram kishore Sahani	Hilika Ghat, Hatijan	
374	Hooman Sahani	Hilika Ghat, Hatijan	
375	Jitendra Sahani	Hilika Ghat, Hatijan	
376	Lal babu urang	Bebejia	
377	Dileswar Chutia	Bebejia	
378	Alip Chutia	Bebejia	
379	Bosonto Chutia	Bebejia	
380	Raongman Chutia	Bebejia	
381	Mohendra Chutia	Bebejia	
382	Ronjan Moran	Bebejia	
383	Sibani Chutia	Bebejia	
384	Saam Sahani	Hilika Ghat, Hatijan	
385	Kunju Chutia	Bebejia	
386	Prisram Malah	Hilika Ghat, Hatijan	
387	Amit Chutia	Bebejia	

Fishery Field Asstt.
Kakopather Dev. Block

District Fishery Dev. Officer
Tinsukia

ক্রমিক নং	পৰিয়ালৰ মূৱৰী নাম	পিতা / স্বামী নাম	গাঁও নাম
১	শ্রী অপূর্ব চুতীয়া	গণেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২	শ্রী গণেশ্বৰ চুতীয়া	জয়ৰাম চুতীয়া	পুৰণি মতাপুং গাঁও
৩	শ্রী লাভতী কয়া	প্রদীপ কয়া	পুৰণি মতাপুং গাঁও
৪	শ্রী বিপুল মৰাণ	কংগেশ্বৰ মৰাণ	পুৰণি মতাপুং গাঁও
৫	শ্রী টিকেশ্বৰ দুৱৰা	কুলাই দুৱৰা	পুৰণি মতাপুং গাঁও
৬	শ্রী মিনেশ্বৰ চুতীয়া	পুষ্পধৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৭	শ্রী কমলা চুতীয়া	নিলাম্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৮	শ্রী সুবোধ মৰাণ	ঘুহেন মৰাণ	পুৰণি মতাপুং গাঁও
৯	শ্রী পুহেন মৰাণ	পৰেশ্বৰ মৰাণ	পুৰণি মতাপুং গাঁও
১০	শ্রী প্রমোদ চুতীয়া	ধনেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
১১	শ্রী শচীন চুতীয়া	ফুলেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
১২	শ্রী নাৰেশ্বৰ চুতীয়া	বুধৰৰ চুতীয়া	পুৰণি মতাপুং গাঁও
১৩	শ্রী ফুলেশ্বৰ চুতীয়া	বুধৰৰ চুতীয়া	পুৰণি মতাপুং গাঁও
১৪	শ্রী ধনেশ্বৰ চুতীয়া	চমেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
১৫	শ্রী অজয় চুতীয়া	কিচিশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
১৬	শ্রী অনুজ চুতীয়া	শ্রী ফুলেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
১৭	শ্রী হেমন্ত চুতীয়া	কিচিশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
১৮	শ্রী কুবেৰ চুতীয়া	গন্ধ চুতীয়া	পুৰণি মতাপুং গাঁও
১৯	শ্রী ফাইটন চুতীয়া	গন্ধ চুতীয়া	পুৰণি মতাপুং গাঁও
২০	শ্রী কুলেন চুতীয়া	গন্ধ চুতীয়া	পুৰণি মতাপুং গাঁও
২১	শ্রী তৰুণ চুতীয়া	গন্ধ চুতীয়া	পুৰণি মতাপুং গাঁও
২২	শ্রী অকণ চুতীয়া	জীতেন চুতীয়া	পুৰণি মতাপুং গাঁও
২৩	শ্রী খানেশ্বৰ চুতীয়া	জীতেন চুতীয়া	পুৰণি মতাপুং গাঁও
২৪	শ্রী বিমান চুতীয়া	জীতেন চুতীয়া	পুৰণি মতাপুং গাঁও
২৫	শ্রী ধনীল চুতীয়া	সোনাৰাম চুতীয়া	পুৰণি মতাপুং গাঁও
২৬	শ্রী গিৰিশ চুতীয়া	সুন্দেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২৭	শ্রী গোলাপ চুতীয়া	সুজেধৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২৮	শ্রী অচ্যুত চুতীয়া	বাবুৰাম চুতীয়া	পুৰণি মতাপুং গাঁও
২৯	শ্রী বিজয় চুতীয়া	বাবুৰাম চুতীয়া	পুৰণি মতাপুং গাঁও
৩০	শ্রী জিতু চুতীয়া	চিবেন চুতীয়া	পুৰণি মতাপুং গাঁও
৩১	শ্রী কান্ত চুতীয়া	সুন্দেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৩২	শ্রী ভদ্র চুতীয়া	তুলৈ চুতীয়া	পুৰণি মতাপুং গাঁও
৩৩	শ্রী মুনেশ্বৰ চুতীয়া	লেলা চুতীয়া	পুৰণি মতাপুং গাঁও
৩৪	শ্রী পুহেশ্বৰ চুতীয়া	সুন্দেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৩৫	শ্রী অমল চুতীয়া	পুহেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৩৬	শ্রী তাৰেন চুতীয়া	চিবেন চুতীয়া	পুৰণি মতাপুং গাঁও
৩৭	শ্রী বাবুল চুতীয়া	জীতেন্দ্ৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৩৮	শ্রী চিৰণজ্যোতি মৰাণ	প্রদীপ মৰাণ	পুৰণি মতাপুং গাঁও
৩৯	শ্রী বিকাশ মৰাণ	প্রদীপ মৰাণ	পুৰণি মতাপুং গাঁও
৪০	শ্রী দীপক মৰাণ	লখকেশ্বৰ মৰাণ	পুৰণি মতাপুং গাঁও
৪১	শ্রী অৰুণ মৰাণ	লখকেশ্বৰ মৰাণ	পুৰণি মতাপুং গাঁও

৪২	শ্রী বাজীর মৰাণ	চলিয়া মৰাণ	পূৰণি মতাপুং গাঁও
৪৩	শ্রী বিনয় চুতীয়া	বাবুৰাম চুতীয়া	পূৰণি মতাপুং গাঁও
৪৪	শ্রী তৰুণ মৰাণ	পৰেশ্বৰ মৰাণ	পূৰণি মতাপুং গাঁও
৪৫	শ্রী সূৰ্যধৰ চুতীয়া	লেলা চুতীয়া	পূৰণি মতাপুং গাঁও
৪৬	শ্রী লক্ষ্মেশ্বৰ মৰাণ	ৰাজেন মৰাণ	পূৰণি মতাপুং গাঁও
৪৭	শ্রী তিলক মৰাণ	কোমল মৰাণ	পূৰণি মতাপুং গাঁও
৪৮	শ্রী টিকম মৰাণ	পৰেশ্বৰ মৰাণ	পূৰণি মতাপুং গাঁও
৪৯	শ্রী অনেশ্বৰ মৰাণ	পৰেশ্বৰ মৰাণ	পূৰণি মতাপুং গাঁও
৫০	শ্রী বিপ্লৱ মৰাণ	বিনোত মৰাণ	পূৰণি মতাপুং গাঁও
৫১	শ্রী প্রতাপ মৰাণ	লংকেশ্বৰ মৰাণ	পূৰণি মতাপুং গাঁও
৫২	শ্রী সোনেশ্বৰ চুতীয়া	সুৰেণ চুতীয়া	পূৰণি মতাপুং গাঁও
৫৩	শ্রী বিমল চুতীয়া	মহেন্দ্র চুতীয়া	পূৰণি মতাপুং গাঁও
৫৪	শ্রী শ্যামল চুতীয়া	মহেন্দ্র চুতীয়া	পূৰণি মতাপুং গাঁও
৫৫	শ্রী অনুপম চুতীয়া	লুফুক চুতীয়া	পূৰণি মতাপুং গাঁও
৫৬	শ্রী জ্যোতিষ মৰাণ	পৰেশ্বৰ মৰাণ	পূৰণি মতাপুং গাঁও
৫৭	শ্রী চিন্তামনী মৰাণ	মিনাৰাম মৰাণ	পূৰণি মতাপুং গাঁও
৫৮	শ্রী যোগেশ্বৰ মৰাণ	গন্ধেশ্বৰ মৰাণ	পূৰণি মতাপুং গাঁও
৫৯	শ্রী পদ্মেশ্বৰ চুতীয়া	বাবুৰাম চুতীয়া	পূৰণি মতাপুং গাঁও
৬০	শ্রী বাবুৰাম চুতীয়া	মেকেনা চুতীয়া	পূৰণি মতাপুং গাঁও
৬১	শ্রী চিত্তৰঞ্জন চুতীয়া	জয়দৰ চুতীয়া	পূৰণি মতাপুং গাঁও
৬২	শ্রী বেলাং চুতীয়া	টেকেলীয়া চুতীয়া	পূৰণি মতাপুং গাঁও
৬৩	শ্রী ভদ্রেশ্বৰ চুতীয়া	টেকেলীয়া চুতীয়া	পূৰণি মতাপুং গাঁও
৬৪	শ্রী ৰুবুল চুতীয়া	ললিত চুতীয়া	পূৰণি মতাপুং গাঁও
৬৫	শ্রী তপন চুতীয়া	পুহেশ্বৰ চুতীয়া	পূৰণি মতাপুং গাঁও
৬৬	শ্রী অনন্ত চুতীয়া	গেফাই চুতীয়া	পূৰণি মতাপুং গাঁও
৬৭	শ্রী কনক চুতীয়া	খুতেশ্বৰ চুতীয়া	পূৰণি মতাপুং গাঁও
৬৮	শ্রী খণ্ডেশ্বৰ চুতীয়া	খুনুকা চুতীয়া	পূৰণি মতাপুং গাঁও
৬৯	শ্রী বিৰেন্দ্র চুতীয়া	আনন্দ্র চুতীয়া	পূৰণি মতাপুং গাঁও
৭০	শ্রী ধৰ্মেন্দ্র চুতীয়া	আনন্দ্র চুতীয়া	পূৰণি মতাপুং গাঁও
৭১	শ্রী ৰগেশ্বৰ চুতীয়া	খুনুকা চুতীয়া	পূৰণি মতাপুং গাঁও
৭২	শ্রী ৰতন চুতীয়া	ভেবেকা চুতীয়া	পূৰণি মতাপুং গাঁও
৭৩	শ্রী নিবেন্দ্র চুতীয়া	সুন্দা চুতীয়া	পূৰণি মতাপুং গাঁও
৭৪	শ্রী ৰূপাম্বৰ মৰাণ	দিলীপ মৰাণ	পূৰণি মতাপুং গাঁও
৭৫	শ্রী দিলীপ মৰাণ	পৰেশ্বৰ মৰাণ	পূৰণি মতাপুং গাঁও
৭৬	শ্রী পৰেশ মৰাণ	দিলীপ মৰাণ	পূৰণি মতাপুং গাঁও
৭৭	শ্রী ৰূপন চুতীয়া	ভেবেকা চুতীয়া	পূৰণি মতাপুং গাঁও
৭৮	শ্রী চিৰজীত চুতীয়া	মিঠাৰাম চুতীয়া	পূৰণি মতাপুং গাঁও
৭৯	শ্রী শুক্ল চুতীয়া	খণ্ডেশ্বৰ চুতীয়া	পূৰণি মতাপুং গাঁও
৮০	শ্রী গেৰেল চুতীয়া	খামফৌ চুতীয়া	পূৰণি মতাপুং গাঁও
৮১	শ্রী হীৰুকন চুতীয়া	ফকৌ চুতীয়া	পূৰণি মতাপুং গাঁও
৮২	শ্রী জীতেন্দ্র চুতীয়া	মকয় চুতীয়া	পূৰণি মতাপুং গাঁও
৮৩	শ্রী খগেশ্বৰ চুতীয়া	মকয় চুতীয়া	পূৰণি মতাপুং গাঁও
৮৪	শ্রী পিছেন চুতীয়া	মকয় চুতীয়া	পূৰণি মতাপুং গাঁও

৮৫	শ্রী জীবন চুতীয়া	ভোৰেকা চুতীয়া	পুৰণি মতাপুং গাঁও
৮৬	শ্রী প্রবিন চুতীয়া	খামফৌ চুতীয়া	পুৰণি মতাপুং গাঁও
৮৭	শ্রী অচেন চুতীয়া	মকয় চুতীয়া	পুৰণি মতাপুং গাঁও
৮৮	শ্রী মিঠাৰাম চুতীয়া	সুন্দা চুতীয়া	পুৰণি মতাপুং গাঁও
৮৯	শ্রী আনন্দ্র চুতীয়া	মেকেনা চুতীয়া	পুৰণি মতাপুং গাঁও
৯০	শ্রী ধীলন চুতীয়া	প্রবীন চুতীয়া	পুৰণি মতাপুং গাঁও
৯১	শ্রী ৰঙেশ্বৰ চুতীয়া	সোন্দেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৯২	শ্রী নমিণ চুতীয়া	কুন্দেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৯৩	শ্রী হৰেন মৰাণ	গন্ধেৰৰ মৰাণ	পুৰণি মতাপুং গাঁও
৯৪	শ্রী টংকেশ্বৰ চুতীয়া	কুম্বেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৯৫	শ্রী প্রসন্ন চুতীয়া	দিলি চুতীয়া	পুৰণি মতাপুং গাঁও
৯৬	শ্রী অৰুপ চুতীয়া	বুলেন চুতীয়া	পুৰণি মতাপুং গাঁও
৯৭	শ্রী ৰজেন চুতীয়া	টংকেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৯৮	শ্রী জলেন চুতীয়া	টংকেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৯৯	শ্রী বুদ্ধ চুতীয়া	মনপুৰ চুতীয়া	পুৰণি মতাপুং গাঁও
১০০	শ্রী বিধান মৰাণ		পুৰণি মতাপুং গাঁও
১০১	শ্রী মনমোৰ চুতীয়া	টেকেলীয়া চুতীয়া	পুৰণি মতাপুং গাঁও
১০২	শ্রী পুথেশ্বৰ চুতীয়া	গেন চুতীয়া	পুৰণি মতাপুং গাঁও
১০৩	শ্রী নৰেশ্বৰ চুতীয়া	বিত চুতীয়া	পুৰণি মতাপুং গাঁও
১০৪	শ্রী ধর্মেশ্বৰ চুতীয়া	বিত চুতীয়া	পুৰণি মতাপুং গাঁও
১০৫	শ্রী গকুল চুতীয়া	নিবেন চুতীয়া	পুৰণি মতাপুং গাঁও
১০৬	শ্রী বিজু চুতীয়া	নিবেন চুতীয়া	পুৰণি মতাপুং গাঁও
১০৭	শ্রী বিশ্বজীত চুতীয়া	নিবেন চুতীয়া	পুৰণি মতাপুং গাঁও
১০৮	শ্রী অজন্ত মৰাণ	ৰাজেন মৰাণ	পুৰণি মতাপুং গাঁও
১০৯	শ্রী লিকেশ্বৰ চুতীয়া	সুন্দা চুতীয়া	পুৰণি মতাপুং গাঁও
১১০	শ্রী ক্ষীৰেশ্বৰ চুতীয়া	জীতেন্দ চুতীয়া	পুৰণি মতাপুং গাঁও
১১১	শ্রী নয়নজ্যোতি চুতীয়া	পুলিন চুতীয়া	পুৰণি মতাপুং গাঁও
১১২	শ্রী বিপুল চুতীয়া	পুলিন চুতীয়া	পুৰণি মতাপুং গাঁও
১১৩	শ্রী ৰিয়াত চুতীয়া	ভাবিশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
১১৪	শ্রী দেৱজিত ৰব্বা		পুৰণি মতাপুং গাঁও
১১৫	শ্রী হেমচন্দ্র চুতীয়া	পুলিন চুতীয়া	পুৰণি মতাপুং গাঁও
১১৬	শ্রী মইনা চুতীয়া	পুলিন চুতীয়া	পুৰণি মতাপুং গাঁও
১১৭	শ্রী পুলিন চুতীয়া	বিত চুতীয়া	পুৰণি মতাপুং গাঁও
১১৮	শ্রী ফিৰোজ চুতীয়া	নিবুক চুতীয়া	পুৰণি মতাপুং গাঁও
১১৯	শ্রী ইন্দেশ্বৰ চুতীয়া	সুৰেণ চুতীয়া	পুৰণি মতাপুং গাঁও
১২০	শ্রী ৰাজা চুতীয়া	আনন্দ্র চুতীয়া	পুৰণি মতাপুং গাঁও
১২১	শ্রী ৰাজু চুতীয়া	আনন্দ্র চুতীয়া	পুৰণি মতাপুং গাঁও
১২২	শ্রী মিন্ময় চুতীয়া	বুলেন চুতীয়া	পুৰণি মতাপুং গাঁও
১২৩	শ্রী সুগ্রীবৰ চুতীয়া	আদৰ চুতীয়া	পুৰণি মতাপুং গাঁও
১২৪	শ্রী মোহিত মৰাণ	ৰালী মৰাণ	পুৰণি মতাপুং গাঁও
১২৫	শ্রী দনিৰাম মৰাণ	সৰেশ্বৰ মৰাণ	পুৰণি মতাপুং গাঁও
১২৬	শ্রী পোনাকণ মৰাণ	বদন মৰাণ	পুৰণি মতাপুং গাঁও
১২৭	শ্রী ৰঞ্জিত মৰাণ	কংগেশ্বৰ মৰাণ	পুৰণি মতাপুং গাঁও

১২৮	শ্রী ফুলেশ্বর মৰাণ	লেকু মৰাণ	পুৰণি মতাপুং গাঁও
১২৯	শ্রী বিদ্যাধৰ মৰাণ	ৰঞ্জিত মৰাণ	পুৰণি মতাপুং গাঁও
১৩০	শ্রী ক্ষিৰোদ মৰাণ	টিপেশ্বৰ মৰাণ	পুৰণি মতাপুং গাঁও
১৩১	শ্রী পৰেশ মৰাণ	ফুলেশ্বৰ মৰাণ	পুৰণি মতাপুং গাঁও
১৩২	শ্রী খগুলা দুৱৰা	অশোক দুৱৰা	পুৰণি মতাপুং গাঁও
১৩৩	শ্রী মতিক দুৱৰা	ৰবি দুৱৰা	পুৰণি মতাপুং গাঁও
১৩৪	শ্রী সঞ্চয় দুৱৰা	মতিক দুৱৰা	পুৰণি মতাপুং গাঁও
১৩৫	শ্রী ভদেন মৰাণ	সুমেশ্বৰ মৰাণ	পুৰণি মতাপুং গাঁও
১৩৬	শ্রী কেশৰ মৰাণ	মুহিধৰ দুৱৰা	পুৰণি মতাপুং গাঁও
১৩৭	শ্রী দীনেশ মৰাণ	সুমেশ্বৰ মৰাণ	পুৰণি মতাপুং গাঁও
১৩৮	শ্রী প্রণৱ মৰাণ	ৰহেন মৰাণ	পুৰণি মতাপুং গাঁও
১৩৯	শ্রী মন্টু মৰাণ	ৰহেন মৰাণ	পুৰণি মতাপুং গাঁও
১৪০	শ্রী দীপন মৰাণ	বদন মৰাণ	পুৰণি মতাপুং গাঁও
১৪১	শ্রী নালেশ্বৰ মৰাণ	জিলিকা মৰাণ	পুৰণি মতাপুং গাঁও
১৪২	শ্রী প্রদিপ দুৱৰা	খুবেন দুৱৰা	পুৰণি মতাপুং গাঁও
১৪৩	শ্রী নোমল দুৱৰা	মলী দুৱৰা	পুৰণি মতাপুং গাঁও
১৪৪	শ্রী বিৰেশ্বৰ মৰাণ	যোগেন মৰাণ	পুৰণি মতাপুং গাঁও
১৪৫	শ্রী বদন মৰাণ	যোগেন মৰাণ	পুৰণি মতাপুং গাঁও
১৪৬	শ্রী প্রণৱ দুৱৰা	খুবেন দুৱৰা	পুৰণি মতাপুং গাঁও
১৪৭	শ্রী পালোৰান মৰাণ	ফুলেশ্বৰ মৰাণ	পুৰণি মতাপুং গাঁও
১৪৮	শ্রী কেশৱ দুৱৰা	মুহিধৰ দুৱৰা	পুৰণি মতাপুং গাঁও
১৪৯	শ্রী সঞ্জীৱ মৰাণ	টিপেশ্বৰ মৰাণ	পুৰণি মতাপুং গাঁও
১৫০	শ্রী ৰঞ্জন দুৱৰা	মুহিধৰ দুৱৰা	পুৰণি মতাপুং গাঁও
১৫১	শ্রী মিলেশ্বৰ দুৱৰা	অধলীয়া দুৱৰা	পুৰণি মতাপুং গাঁও
১৫২	শ্রী বলীন মৰাণ	বিতে মৰাণ	পুৰণি মতাপুং গাঁও
১৫৩	শ্রী টেমেশ্বৰ মৰাণ	ফনি মৰাণ	পুৰণি মতাপুং গাঁও
১৫৪	শ্রী নালিক দুৱৰা	কেন্দেল দুৱৰা	পুৰণি মতাপুং গাঁও
১৫৫	শ্রী হৰেন্দ্র দুৱৰা	নালিক দুৱৰা	পুৰণি মতাপুং গাঁও
১৫৬	শ্রী ৰাজীৱ দুৱৰা	হৰেন্দ্র দুৱৰা	পুৰণি মতাপুং গাঁও
১৫৭	শ্রী বিৰেশ্বৰ দুৱৰা	অসেশ্বৰ দুৱৰা	পুৰণি মতাপুং গাঁও
১৫৮	শ্রী বিসেশ্বৰ দুৱৰা	আসেশ্বৰ দুৱৰা	পুৰণি মতাপুং গাঁও
১৫৯	শ্রী ললিত দুৱৰা	নালিক দুৱৰা	পুৰণি মতাপুং গাঁও
১৬০	শ্রী নলে দুৱৰা	নালিক দুৱৰা	পুৰণি মতাপুং গাঁও
১৬১	শ্রী দেৱ দুৱৰা	শৰত দুৱৰা	পুৰণি মতাপুং গাঁও
১৬২	শ্রী দুলাল দুৱৰা	শৰত দুৱৰা	পুৰণি মতাপুং গাঁও
১৬৩	শ্রী চৰত দুৱৰা	কেন্দেল দুৱৰা	পুৰণি মতাপুং গাঁও
১৬৪	শ্রী টেলেকা দুৱৰা	শ্রী ডম্বৰুধৰ দুৱৰা	পুৰণি মতাপুং গাঁও
১৬৫	শ্রী ডম্বৰুধৰ দুৱৰা	কেন্দেল দুৱৰা	পুৰণি মতাপুং গাঁও
১৬৬	শ্রী বিপ্লৱ দুৱৰা	শ্রী ডম্বৰুধৰ দুৱৰা	পুৰণি মতাপুং গাঁও
১৬৭	শ্রী টেপন দুৱৰা	শ্রী ডম্বৰুধৰ দুৱৰা	পুৰণি মতাপুং গাঁও
১৬৮	শ্রী বিশ্বজীত মৰাণ	বিতে মৰাণ	পুৰণি মতাপুং গাঁও
১৬৯	শ্রী বুদ্র দুৱৰা	নালিক দুৱৰা	পুৰণি মতাপুং গাঁও
১৭০	শ্রী মঋত চুতীয়া	সোণিৰৰ চুতীয়া	পুৰণি মতাপুং গাঁও

১৭১	শ্রী শিক্ষিত চুতীয়া	সোণিবৰ চুতীয়া	পুৰণি মতাপুং গাঁও
১৭২	শ্রী বগাধৰ চুতীয়া	হেমন্ত চুতীয়া	পুৰণি মতাপুং গাঁও
১৭৩	শ্রী বুলবুল চুতীয়া	পুনধৰ চুতীয়া	পুৰণি মতাপুং গাঁও
১৭৪	শ্রী মুহিৰাম চুতীয়া	পুনধৰ চুতীয়া	পুৰণি মতাপুং গাঁও
১৭৫	শ্রী লালন দুৱৰা	বগেশ্বৰ দুৱৰা	পুৰণি মতাপুং গাঁও
১৭৬	শ্রী পুৱেন মৰাণ	জেং মৰান	পুৰণি মতাপুং গাঁও
১৭৭	শ্রী হিদ্রেশ্বৰ চুতীয়া	উমাকান্ত চুতীয়া	পুৰণি মতাপুং গাঁও
১৭৮	শ্রী ৰুস্তম মৰাণ	কেশৱ মৰান	পুৰণি মতাপুং গাঁও
১৭৯	শ্রী সীদ্ধান্ত মৰাণ	কেপশ্বৰ মৰান	পুৰণি মতাপুং গাঁও
১৮০	শ্রী কেপেশ্বৰ মৰাণ	ঝিলিকা মৰাণ	পুৰণি মতাপুং গাঁও
১৮১	শ্রী ফটিক দুৱৰা	কেহৰাম দুৱৰা	পুৰণি মতাপুং গাঁও
১৮২	শ্রী বগা মৰাণ	দেবেশ্বৰ মৰাণ	পুৰণি মতাপুং গাঁও
১৮৩	শ্রী কল্যাশ মৰাণ	দেবেশ্বৰ মৰাণ	পুৰণি মতাপুং গাঁও
১৮৪	শ্রীমতী জুনমনি দুৱৰা	শ্রী কার্তিক সিং	পুৰণি মতাপুং গাঁও
১৮৫	শ্রী হেমন্ত চুতীয়া	আদৰ চুতীয়া	পুৰণি মতাপুং গাঁও
১৮৬	শ্রী মনিৰাম চুতীয়া	পুনধৰ চুতীয়া	পুৰণি মতাপুং গাঁও
১৮৭	শ্রী ৰবিন চুতীয়া	জয়সিং চুতীয়া	পুৰণি মতাপুং গাঁও
১৮৮	শ্রী চেন্ধৰ চুতীয়া	ৰূপেন চুতীয়া	পুৰণি মতাপুং গাঁও
১৮৯	শ্রী মুকুল চুতীয়া	ৰজনী চুতীয়া	পুৰণি মতাপুং গাঁও
১৯০	শ্রী মহেন্দ্র চুতীয়া	ৰজনী চুতীয়া	পুৰণি মতাপুং গাঁও
১৯১	শ্রী ফুকন চুতীয়া	নিমন্ত্রণ চুতীয়া	পুৰণি মতাপুং গাঁও
১৯২	শ্রী মিহিৰাম চুতীয়া	বিদ্যাধৰ চুতীয়া	পুৰণি মতাপুং গাঁও
১৯৩	শ্রী লম্বোধৰ চুতীয়া	বিদ্যাধৰ চুতীয়া	পুৰণি মতাপুং গাঁও
১৯৪	শ্রী যাদৱ চুতীয়া	দিচেন চুতীয়া	পুৰণি মতাপুং গাঁও
১৯৫	শ্রীমতী মেনকা চুতীয়া	ফুকন চুতীয়া	পুৰণি মতাপুং গাঁও
১৯৬	শ্রী অৱনি চুতীয়া	গফুল চুতীয়া	পুৰণি মতাপুং গাঁও
১৯৭	শ্রী কমল মৰাণ	খগেশ্বৰ মৰাণ	পুৰণি মতাপুং গাঁও
১৯৮	শ্রী লেখকজ্যোতি মৰাণ	কমল মৰাণ	পুৰণি মতাপুং গাঁও
১৯৯	শ্রী যতিন চুতীয়া	নিমন্ত্রণ চুতীয়া	পুৰণি মতাপুং গাঁও
২০০	শ্রী ভবেন চুতীয়া	বিলেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২০১	শ্রী কৃষ্ণ চুতীয়া	লম্বেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২০২	শ্রী মলিন চুতীয়া	গুনধৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২০৩	শ্রীমতী লীলাৱতি চুতীয়া	লিঙেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২০৪	শ্রী বিৱেন চুতীয়া	পুলিন্দ চুতীয়া	পুৰণি মতাপুং গাঁও
২০৫	শ্রী অমৰ কুমাৰ চুতীয়া	বংকেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২০৬	শ্রী জীৱনজ্যোতি চুতীয়া	পুলিন্দ চুতীয়া	পুৰণি মতাপুং গাঁও
২০৭	শ্রী সঞ্জীৱ চুতীয়া	বিশ্বনাথ চুতীয়া	পুৰণি মতাপুং গাঁও
২০৮	শ্রী বিজয় চুতীয়া	গহীন চুতীয়া	পুৰণি মতাপুং গাঁও
২০৯	শ্রী ভৱেশ চুতীয়া	আচাম্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২১০	শ্রী আচাম্বৰ চুতীয়া	মিলবৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২১১	শ্রী ভাস্কৰ চুতীয়া	উমাকান্ত চুতীয়া	পুৰণি মতাপুং গাঁও
২১২	শ্রী কুন্দেশ্বৰ চুতীয়া	হেম চুতীয়া	পুৰণি মতাপুং গাঁও

২১৩	শ্রী গজিন চুতীয়া	ঃআখেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২১৪	শ্রী কুমুদ চুতীয়া	বুদ্রেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২১৫	শ্রী চবিন চুতীয়া	ঃপিয়ল চুতীয়া	পুৰণি মতাপুং গাঁও
২১৬	শ্রী সুৰেন চুতীয়া	ঃপিয়ল চুতীয়া	পুৰণি মতাপুং গাঁও
২১৭	শ্রী টকৌ চুতীয়া	দিচেন চুতীয়া	পুৰণি মতাপুং গাঁও
২১৮	শ্রী মদন চুতীয়া	ঃছিলাবৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২১৯	শ্রী বাবুৰাম চুতীয়া	ঃলক্ষীৰাম চুতীয়া	পুৰণি মতাপুং গাঁও
২২০	শ্রী বুদ্রেশ্বৰ চুতীয়া	ঃমিলন চুতীয়া	পুৰণি মতাপুং গাঁও
২২১	শ্রী প্রবিত্র চুতীয়া	ৰাকেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২২২	শ্রী ৰাকেশ্বৰ চুতীয়া	বুদ্রেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২২৩	শ্রী সোনেশ্বৰ চুতীয়া	ঃনিমন্ত্রণ চুতীয়া	পুৰণি মতাপুং গাঁও
২২৪	শ্রী দিনেশ্বৰ চুতীয়া	ঃনিমন্ত্রণ চুতীয়া	পুৰণি মতাপুং গাঁও
২২৫	শ্রী মীৰা চুতীয়া	ঃনানেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২২৬	শ্রী লেগেন চুতীয়া	ঃবিদ্যাধৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২২৭	শ্রী হেমালী চুতীয়া	ঃবিদ্যাধৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২২৮	শ্রী চিবেন চুতীয়া	ঃবিদ্যাধৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২২৯	শ্রী চিতেশ্বৰ চুতীয়া	ঃবিলেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২৩০	শ্রী গেন্দ্র চুতীয়া	ঃপিয়ল চুতীয়া	পুৰণি মতাপুং গাঁও
২৩১	শ্রী দিচেন চুতীয়া	ঃপিয়ল চুতীয়া	পুৰণি মতাপুং গাঁও
২৩২	শ্রী দুলম চুতীয়া	চবিন চুতীয়া	পুৰণি মতাপুং গাঁও
২৩৩	শ্রী বিশ্বনাথ চুতীয়া	ঃৰত্নধৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২৩৪	শ্রী শশীকান্ত চুতীয়া	ঃৰত্নধৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২৩৫	শ্রী প্রনব চুতীয়া	নানেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২৩৬	শ্রী প্রবিত্র চুতীয়া	নানেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২৩৭	শ্রী নানেশ্বৰ চুতীয়া	ঃৰত্নধৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২৩৮	শ্রী ধনবৰ দুৱৰা	থানেশ্বৰ দুৱৰা	পুৰণি মতাপুং গাঁও
২৩৯	শ্রী অচ্যুত দুৱৰা	মালবা দুৱৰা	পুৰণি মতাপুং গাঁও
২৪০	শ্রী অনন্ত দুৱৰা	মালবা দুৱৰা	পুৰণি মতাপুং গাঁও
২৪১	শ্রী মালবা দুৱৰা	ঃৰভি দুৱৰা	পুৰণি মতাপুং গাঁও
২৪২	শ্রী দৈবাধৰ দুৱৰা	জয়সিং দুৱৰা	পুৰণি মতাপুং গাঁও
২৪৩	শ্রী মিনেধৰ দুৱৰা	ঃঅযেশ্বৰ দুৱৰা	পুৰণি মতাপুং গাঁও
২৪৪	শ্রী আশান্ত চুতীয়া	ঃজয়চন্দ্র চুতীয়া	পুৰণি মতাপুং গাঁও
২৪৫	শ্রী উমেশ দুৱৰা	ঃমদুবৰ দুৱৰা	পুৰণি মতাপুং গাঁও
২৪৬	শ্রী চেনাই চুতীয়া	ঃভোগাই চুতীয়া	পুৰণি মতাপুং গাঁও
২৪৭	শ্রী সর্বানন্দ চুতীয়া	ঃভোগাই চুতীয়া	পুৰণি মতাপুং গাঁও
২৪৮	শ্রী দিপক দুৱৰা	ঃলক্ষীৰাম দুৱৰা	পুৰণি মতাপুং গাঁও
২৪৯	শ্রী চন্দন চুতীয়া	ঃভোগাই চুতীয়া	পুৰণি মতাপুং গাঁও
২৫০	শ্রী মুকুল দুৱৰা	ঃলক্ষীৰাম দুৱৰা	পুৰণি মতাপুং গাঁও
২৫১	শ্রী গজয় দুৱৰা	ঃদাসেশ্বৰ দুৱৰা	পুৰণি মতাপুং গাঁও
২৫২	শ্রী কুন্দেশ্বৰ মৰাণ	ঃঋনুক মৰাণ	পুৰণি মতাপুং গাঁও
২৫৩	শ্রী ধীৰেন চুতীয়া	চিবেন চুতীয়া	পুৰণি মতাপুং গাঁও
২৫৪	শ্রী গুনিন চুতীয়া	ঃপিঠেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২৫৫	শ্রী দেবজিত চুতীয়া	ঃপিঠেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও

২৫৬	শ্রী সত্যাজত চুতীয়া	ঁসোন্দেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২৫৭	শ্রী টংকেশ্বৰ চুতীয়া	ঁমিলবৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২৫৮	শ্রী ৰবিতা চুতীয়া	ঁবাপুজী চুতীয়া	পুৰণি মতাপুং গাঁও
২৫৯	শ্রী ৰঞ্জিত চুতীয়া	ঁআনন্দ চুতীয়া	পুৰণি মতাপুং গাঁও
২৬০	শ্রী ইনেশ্বৰ চুতীয়া	হেমন্ত চুতীয়া	পুৰণি মতাপুং গাঁও
২৬১	শ্রী গফুল চুতীয়া	ঁলিলন চুতীয়া	পুৰণি মতাপুং গাঁও
২৬২	শ্রী হলিৰাম চুতীয়া	ঁৰূপেন চুতীয়া	পুৰণি মতাপুং গাঁও
২৬৩	শ্রী চেনেহী চুতীয়া	ঁঘিটিক চুতীয়া	পুৰণি মতাপুং গাঁও
২৬৪	শ্রী ভুৱন চুতীয়া	হলিৰাম চুতীয়া	পুৰণি মতাপুং গাঁও
২৬৫	শ্রী নেতায়ন চুতীয়া	ঁমানিক চুতীয়া	পুৰণি মতাপুং গাঁও
২৬৬	শ্রী বসন্ত চুতীয়া	নেতায়ন চুতীয়া	পুৰণি মতাপুং গাঁও
২৬৭	শ্রী অচ্যুত চুতীয়া	নেতায়ন চুতীয়া	পুৰণি মতাপুং গাঁও
২৬৮	শ্রী দিপাংকৰ চুতীয়া	ঁঘিটিক চুতীয়া	পুৰণি মতাপুং গাঁও
২৬৯	শ্রী নিপন চুতীয়া	ঁঘিটিক চুতীয়া	পুৰণি মতাপুং গাঁও
২৭০	শ্রী গজেন চুতীয়া	ঁপেদৌ	পুৰণি মতাপুং গাঁও
২৭১	শ্রী মনেশ্বৰ চুতীয়া	ঁমানিক চুতীয়া	পুৰণি মতাপুং গাঁও
২৭২	শ্রী সংগত চুতীয়া	মনেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২৭৩	শ্রী প্রনব চুতীয়া	গজেন চুতীয়া	পুৰণি মতাপুং গাঁও
২৭৪	শ্রী চিনতি চুতীয়া	ঁশন্ত চুতীয়া	পুৰণি মতাপুং গাঁও
২৭৫	শ্রী ৰিংকু চুতীয়া	ঁঘিটিক চুতীয়া	পুৰণি মতাপুং গাঁও
২৭৬	শ্রী ৰানাপ চুতীয়া	ঁশন্ত চুতীয়া	পুৰণি মতাপুং গাঁও
২৭৭	শ্রী নিকেশ চুতীয়া	গজেন চুতীয়া	পুৰণি মতাপুং গাঁও
২৭৮	শ্রী লম্বিত চুতীয়া	মনেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২৭৯	শ্রী ৰজনী চুতীয়া	ঁআদৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২৮০	শ্রী নৰেন্দ্র চুতীয়া	ঁৰেকেতা চুতীয়া	পুৰণি মতাপুং গাঁও
২৮১	শ্রী মনেশ্বৰ চুতীয়া	উমাকান্ত চুতীয়া	পুৰণি মতাপুং গাঁও
২৮২	শ্রী খগেশ্বৰ চুতীয়া	ঁহেম চুতীয়া	পুৰণি মতাপুং গাঁও
২৮৩	শ্রী নোমল চুতীয়া	উমাকান্ত চুতীয়া	পুৰণি মতাপুং গাঁও
২৮৪	শ্রী বংকেশ্বৰ চুতীয়া	ঁনদী চুতীয়া	পুৰণি মতাপুং গাঁও
২৮৫	শ্রী কণ্ঠেশ্বৰ চুতীয়া	ঁপৰ চুতীয়া	পুৰণি মতাপুং গাঁও
২৮৬	শ্রী সূর্য্যকমল চুতীয়া	শশীকান্ত চুতীয়া	পুৰণি মতাপুং গাঁও
২৮৭	শ্রী ৰিদিপ চুতীয়া	ঁসোচন চুতীয়া	পুৰণি মতাপুং গাঁও
২৮৮	শ্রী তান্তি চুতীয়া	ঁসোচন চুতীয়া	পুৰণি মতাপুং গাঁও
২৮৯	শ্রী মুহিকান্ত চুতীয়া	ঁলক্ষীৰাম চুতীয়া	পুৰণি মতাপুং গাঁও
২৯০	শ্রী নিকুঞ্জ চুতীয়া	মদন চুতীয়া	পুৰণি মতাপুং গাঁও
২৯১	শ্রী মনেশ্বৰ দুৱৰা	ঁঅশোক দুৱৰা	পুৰণি মতাপুং গাঁও
২৯২	শ্রী খানেশ্বৰ দুৱৰা	ঁদুৰ্বিন দুৱৰা	পুৰণি মতাপুং গাঁও
২৯৩	শ্রী দিবাকৰ দুৱৰা	ঁমিটন দুৱৰা	পুৰণি মতাপুং গাঁও
২৯৪	শ্রী কেহৰাম দুৱৰা	ঁনৰেন্দ দুৱৰা	পুৰণি মতাপুং গাঁও
২৯৫	শ্রী ভদেশ্বৰ দুৱৰা	ৰগেশ্বৰ দুৱৰা	পুৰণি মতাপুং গাঁও
২৯৬	শ্রী বিতুল দুৱৰা	কেহৰাম দুৱৰা	পুৰণি মতাপুং গাঁও
২৯৭	শ্রী মহেন্দ্র দুৱৰা	ঁঅষেশ্বৰ দুৱৰা	পুৰণি মতাপুং গাঁও
২৯৮	শ্রী খেপেশ্বৰ দুৱৰা	ঁটিলেশ্বৰ দুৱৰা	পুৰণি মতাপুং গাঁও

২৯৯	শ্রীমতী প্রমিলা দুৱৰা	ঃটিলেশ্বৰ দুৱৰা	পুৰণি মতাপুং গাঁও
৩০০	শ্রী সোৱেশ্বৰ দুৱৰা	ঃকুলাই দুৱৰা	পুৰণি মতাপুং গাঁও
৩০১	শ্রী হীৰেণ দুৱৰা	নোমল দুৱৰা	পুৰণি মতাপুং গাঁও
৩০২	শ্রী নোমল দুৱৰা	ঃফেন্দেল	পুৰণি মতাপুং গাঁও
৩০৩	শ্রী পুতুল চুতীয়া	গজিন চুতীয়া	পুৰণি মতাপুং গাঁও
৩০৪	শ্রী অলিপ চুতীয়া	ৰাবুৰাম চুতীয়া	পুৰণি মতাপুং গাঁও
৩০৫	শ্রী গিৰিন চুতীয়া	ঃবিশেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৩০৬	শ্রী ধনীৰাম চুতীয়া	ঃবিশেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৩০৭	শ্রী থানেশ্বৰ চুতীয়া	ঃজয়সিং চুতীয়া	পুৰণি মতাপুং গাঁও
৩০৮	শ্রী প্রদীপ চুতীয়া	ঃজয়সিং চুতীয়া	পুৰণি মতাপুং গাঁও
৩০৯	শ্রী ধমেন্দ্র চুতীয়া	ঃপুলেন্দ	পুৰণি মতাপুং গাঁও
৩১০	শ্রী আশিত্র চুতীয়া	ঃযোগেন	পুৰণি মতাপুং গাঁও
৩১১	শ্রী ভূপেশ্বৰ চুতীয়া	ঃযোগেন	পুৰণি মতাপুং গাঁও
৩১২	শ্রী নকুল চুতীয়া	ঃবিত চুতীয়া	পুৰণি মতাপুং গাঁও
৩১৩	শ্রী শিৱনাথ চুতীয়া	ঃধুৰুকা	পুৰণি মতাপুং গাঁও
৩১৪	শ্রী ভাবিৰাম চুতীয়া	ঃধুৰুকা	পুৰণি মতাপুং গাঁও
৩১৫	শ্রী বিতুপল চুতীয়া	ঃপ্রফুল	পুৰণি মতাপুং গাঁও
৩১৬	শ্রী সুনিল চুতীয়া	ঃধুৰুকা	পুৰণি মতাপুং গাঁও
৩১৭	শ্রী প্রশান্ত চুতীয়া	ঃযোগেন	পুৰণি মতাপুং গাঁও
৩১৮	শ্রী প্রবোধ চুতীয়া	ঃকিতাৰ্থ	পুৰণি মতাপুং গাঁও
৩১৯	শ্রী লিখন চুতীয়া	সুনিল চুতীয়া	পুৰণি মতাপুং গাঁও
৩২০	শ্রী ভবেন চুতীয়া	ঃকিতাৰ্থ	পুৰণি মতাপুং গাঁও
৩২১	শ্রী মনিকান্ত চুতীয়া	শিৱনাথ চুতীয়া	পুৰণি মতাপুং গাঁও
৩২২	শ্রী কনক চুতীয়া	ঃপ্রমুত	পুৰণি মতাপুং গাঁও
৩২৩	শ্রী বুলন চুতীয়া	শশীধৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৩২৪	শ্রী শোৱেশ চুতীয়া	ঃনগেন	পুৰণি মতাপুং গাঁও
৩২৫	শ্রী দীপক দুৱৰা	খেপেশ্বৰ দুৱৰা	পুৰণি মতাপুং গাঁও
৩২৬	শ্রী প্রেমধৰ চুতীয়া	ঃনিধিৰাম চুতীয়া	পুৰণি মতাপুং গাঁও
৩২৭	শ্রী নিৱেন চুতীয়া	ঃদুখেৰৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৩২৮	শ্রী সুনাৰাম চুতীয়া	খগেন্দ চুতীয়া	পুৰণি মতাপুং গাঁও
৩২৯	শ্রী শান্তনো চুতীয়া	খগেন্দ চুতীয়া	পুৰণি মতাপুং গাঁও
৩৩০	শ্রী দেবেন চুতীয়া	ঃনিধিৰাম চুতীয়া	পুৰণি মতাপুং গাঁও
৩৩১	শ্রী ফুলেশ্বৰ চুতীয়া	ঃৰহিত চুতীয়া	পুৰণি মতাপুং গাঁও
৩৩২	শ্রী দিপেন চুতীয়া	সৱেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৩৩৩	শ্রী সৱেশ্বৰ চুতীয়া	ঃকলিয়া চুতীয়া	পুৰণি মতাপুং গাঁও
৩৩৪	শ্রী মোলেশ্বৰ চুতীয়া	সৱেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৩৩৫	শ্রী অচ্যুত চুতীয়া	ঃচুৱেন চুতীয়া	পুৰণি মতাপুং গাঁও
৩৩৬	শ্রী গজেন চুতীয়া	সৱেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৩৩৭	শ্রী মিঠেশ্বৰ চুতীয়া	ঃচুৱেন চুতীয়া	পুৰণি মতাপুং গাঁও
৩৩৮	শ্রী গনিধৰ চুতীয়া	বিপিন চুতীয়া	পুৰণি মতাপুং গাঁও
৩৩৯	শ্রী বিনোদ চুতীয়া	পুলেন্দ চুতীয়া	পুৰণি মতাপুং গাঁও
৩৪০	শ্রী খিলন চুতীয়া	শশীধৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৩৪১	শ্রী শশীধৰ চুতীয়া	ঃসুখমন চুতীয়া	পুৰণি মতাপুং গাঁও

৩৪২	শ্রী গুবিন্দ্র চুতীয়া	ঁকুন্দাল চুতীয়া	পুৰণি মতাপুং গাঁও
৩৪৩	শ্রী ৰিজুত চুতীয়া	ঁপুনেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৩৪৪	শ্রী অমৃত চুতীয়া	ভৰত চুতীয়া	পুৰণি মতাপুং গাঁও
৩৪৫	শ্রী জ্যোতিষ চুতীয়া	ঁপ্রফুল্ল চুতীয়া	পুৰণি মতাপুং গাঁও
৩৪৬	শ্রী ভৰত চুতীয়া	ঁৰাজেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৩৪৭	শ্রী ৰাজিত চুতীয়া	ঁহবেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৩৪৮	শ্রী সঞ্জিপ চুতীয়া	ঁপুনেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৩৪৯	শ্রী ভুলেন চুতীয়া	ঁহবেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৩৫০	শ্রী মুলেন চুতীয়া	ঁলতিক চুতীয়া	পুৰণি মতাপুং গাঁও
৩৫১	শ্রী লক্ষীন্দ্র চুতীয়া	ঁপুনেশ্বৰ চুতীয়া	পুৰণি মতাপুং গাঁও
৩৫২	শ্রী অনন্ত চুতীয়া	মুলেন চুতীয়া	বেবেজীয়া গাঁও
৩৫৩	শ্রী যনান্ত চুতীয়া	ভৰত চুতীয়া	বেবেজীয়া গাঁও
৩৫৪	শ্রী ৰভিত চুতীয়া	ঁজয়দত চুতীয়া	বেবেজীয়া গাঁও
৩৫৫	শ্রী মুখিত কোঁৱৰ	লচতু কোঁৱৰ	বেবেজীয়া গাঁও
৩৫৬	শ্রী চমাৰু কোঁৱৰ	লচতু কোঁৱৰ	বেবেজীয়া গাঁও
৩৫৭	শ্রী ৰনিত কোঁৱৰ	প্রাহনু কোঁৱৰ	বেবেজীয়া গাঁও
৩৫৮	শ্রী লখিমনি কোঁৱৰ	লচতু কোঁৱৰ	বেবেজীয়া গাঁও
৩৫৯	শ্রী নির্মল কোঁৱৰ	চিকু কোঁৱৰ	বেবেজীয়া গাঁও
৩৬০	শ্রী সগম কোঁৱৰ	চিকু কোঁৱৰ	বেবেজীয়া গাঁও
৩৬১	শ্রী সত্যান কোঁৱৰ	বুপু কোঁৱৰ	বেবেজীয়া গাঁও
৩৬২	শ্রী ত্রিভন কোঁৱৰ	চিকু কোঁৱৰ	বেবেজীয়া গাঁও
৩৬৩	শ্রী জিতু মৰাণ	ঁচিবেন মৰাণ	বেবেজীয়া গাঁও
৩৬৪	শ্রী মিঠু মৰান	ঁচিবেন মৰাণ	বেবেজীয়া গাঁও
৩৬৫	শ্রী লম্বিত দুৱৰা	ঁজদোবৰ দুৱৰা	বেবেজীয়া গাঁও
৩৬৬	শ্রী ধুৰজ্যোতি চুতীয়া	জলিন চুতীয়া	বেবেজীয়া গাঁও
৩৬৭	শ্রী ধাউলা কলকমাৰ	ঁনকুল কলকমাৰ	বেবেজীয়া গাঁও
৩৬৮	শ্রী চোনাতন ভূমিজ	ৰবি ভূমিজ	বেবেজীয়া গাঁও
৩৬৯	শ্রী চুকুলান কোঁৱৰ	লচতু কোঁৱৰ	বেবেজীয়া গাঁও
৩৭০	শ্রী দিকেন চুতীয়া	শশীল চুতীয়া	বেবেজীয়া গাঁও
৩৭১	শ্রী জলিন চুতীয়া	ঁসবেশ্বৰ চুতীয়া	বেবেজীয়া গাঁও
৩৭২	শ্রী নবিন চুতীয়া	ফুলেশ্বৰ চুতীয়া	বেবেজীয়া গাঁও
৩৭৩	শ্রী শশী চুতীয়া	ঁথানেশ্বৰ চুতীয়া	বেবেজীয়া গাঁও
৩৭৪	শ্রী খগেন মহন্ত	ৰোহিত মহন্ত	বেবেজীয়া গাঁও
৩৭৫	শ্রী ৰেণুপ্রমা মহন্ত	থানেশ্বৰ মহন্ত	বেবেজীয়া গাঁও
৩৭৬	শ্রী ফুলেশ্বৰ মহন্ত	ঁলোহিত মহন্ত	বেবেজীয়া গাঁও
৩৭৭	শ্রী বুল চুতীয়া	ঁসোচন চুতীয়া	বেবেজীয়া গাঁও
৩৭৮	শ্রী পাৰতি চুতীয়া	ঁসোচন চুতীয়া	বেবেজীয়া গাঁও
৩৭৯	শ্রী নন চুতীয়া	ঁসোচন চুতীয়া	বেবেজীয়া গাঁও
৩৮০	শ্রী ৰাজু তাঁন্তি	লোম্বি তাঁন্তি	বেবেজীয়া গাঁও
৩৮১	শ্রী ৰামদাস গুৱলা		বেবেজীয়া গাঁও
৩৮২	শ্রী ৰিতু চুতীয়া	ঁসোচন চুতীয়া	বেবেজীয়া গাঁও
৩৮৩	শ্রী দুখিত তাঁন্তি	ঁএতুৱা তাঁন্তি	বেবেজীয়া গাঁও
৩৮৪	শ্রী বগাধৰ কোঁৱৰ	ঁবৈশাগু কোঁৱৰ	বেবেজীয়া গাঁও

৩৮৫	শ্রী ৰাতিৰৰ কোঁৱৰ	ঁবৈশাও কোঁৱৰ	বেবেজীয়া গাঁও
৩৮৬	শ্রী মনী চুতীয়া	ঁহেম চুতীয়া	বেবেজীয়া গাঁও
৩৮৭	শ্রী ৰানেশ্বৰ চুতীয়া	ঁবিশেশ্বৰ চুতীয়া	বেবেজীয়া গাঁও
৩৮৮	শ্রী ধীৰেন চুতীয়া	ঁনদে চুতীয়া	বেবেজীয়া গাঁও
৩৮৯	শ্রী মুহিত চুতীয়া	ঁদত্ত চুতীয়া	বেবেজীয়া গাঁও
৩৯০	শ্রী জিতেন চুতীয়া	ঁনালিকা চুতীয়া	বেবেজীয়া গাঁও
৩৯১	শ্রী ধনীল চাউৰক	শুকু চাউৰক	বেবেজীয়া গাঁও
৩৯২	শ্রী দ্বীপ চাউৰক	ধনীল চাউৰক	বেবেজীয়া গাঁও
৩৯৩	শ্রী ললিত চুতীয়া	ঁকলিন্দ চুতীয়া	বেবেজীয়া গাঁও
৩৯৪	শ্রী কেন্দেৰা মহন্ত	ঁৰোগিত মহন্ত	বেবেজীয়া গাঁও
৩৯৫	শ্রী মিলেশ্বৰ মহন্ত	ঁদন্দেশ্বৰ মহন্ত	বেবেজীয়া গাঁও
৩৯৬	শ্রী মেপলিয়ন মহন্ত	ঁদন্দেশ্বৰ মহন্ত	বেবেজীয়া গাঁও
৩৯৭	শ্রী চনা প্রজা	ঁকুচ প্রজা	বেবেজীয়া গাঁও
৩৯৮	শ্রী বদ প্রজা	ঁকুচ প্রজা	বেবেজীয়া গাঁও
৩৯৯	শ্রী ৰাবু উৰাং	দেবাৰ্ উৰাং	বেবেজীয়া গাঁও
৪০০	শ্রী বিপল উৰাং	ঁচান্তক উৰাং	বেবেজীয়া গাঁও
৪০১	শ্রী হাক্ৰু প্রজা	মেলু প্রজা	বেবেজীয়া গাঁও
৪০২	শ্রী ৰাজেন প্রজা	ঁপেহ প্রজা	বেবেজীয়া গাঁও
৪০৩	শ্রী পলে প্রজা	ঁচিতে প্রজা	বেবেজীয়া গাঁও
৪০৪	শ্রী চুকু প্রজা	ঁলিচু প্রজা	বেবেজীয়া গাঁও
৪০৫	শ্রী চনি প্রজা	চুকু প্রজা	বেবেজীয়া গাঁও
৪০৬	শ্রী পিনতু প্রজা	উত্তম প্রজা	বেবেজীয়া গাঁও
৪০৭	শ্রী শিভেশ্বৰ প্রজা	চামা প্রজা	বেবেজীয়া গাঁও
৪০৮	শ্রী চামলাল উৰাং	ঁলক্কা উৰাং	বেবেজীয়া গাঁও
৪০৯	শ্রী ৰাঙ্কন উৰাং	ঁলক্কা উৰাং	বেবেজীয়া গাঁও
৪১০	শ্রী ঘোৰেন উৰাং	মিনা উৰাং	বেবেজীয়া গাঁও
৪১১	শ্রী দিলি উৰাং	চিতা উৰাং	বেবেজীয়া গাঁও
৪১২	শ্রী বিমল উৰাং	দালেল উৰাং	বেবেজীয়া গাঁও
৪১৩	শ্রী থানুক উৰাং	দালেল উৰাং	বেবেজীয়া গাঁও
৪১৪	শ্রী মুলিন উৰাং	জিতা উৰাং	বেবেজীয়া গাঁও
৪১৫	শ্রী ভায়া উৰাং	ৰেংচু উৰাং	বেবেজীয়া গাঁও
৪১৬	শ্রী উজু উৰাং	ৰাঙ্কন উৰাং	বেবেজীয়া গাঁও
৪১৭	শ্রী মন্তো উৰাং	ৰঞ্জিত উৰাং	বেবেজীয়া গাঁও
৪১৮	শ্রী পালোচ মুন্দা	পেতুৰা মুন্দা	বেবেজীয়া গাঁও
৪১৯	শ্রী ধনীৰাম মাঝি	ৰেংচু মাঝি	বেবেজীয়া গাঁও
৪২০	শ্রী পাৰে মাঝি	ৰেংচু মাঝি	বেবেজীয়া গাঁও
৪২১	শ্রী হিৰেন চুতীয়া	গেন্দ চুতীয়া	বেবেজীয়া গাঁও
৪২২	শ্রী ইচু কৰ্মকাৰ	ঁপুন্নাল কৰ্মকাৰ	বেবেজীয়া গাঁও
৪২৩	শ্রী ফন্দু মাংকী	হানু মাংকী	বেবেজীয়া গাঁও
৪২৪	শ্রী চুতু উৰাং	ঁৰঞ্জিত উৰাং	বেবেজীয়া গাঁও
৪২৫	শ্রী মন্দিত চুতীয়া	গেন্দ চুতীয়া	বেবেজীয়া গাঁও
৪২৬	শ্রী দুলেশ্বৰ চুতীয়া	ৰানেশ্বৰ চুতীয়া	বেবেজীয়া গাঁও
৪২৭	শ্রী ফালে উৰাং	ঁকুচ উৰাং	বেবেজীয়া গাঁও

৪২৮	শ্রী দেব উৰাং	মাধব উৰাং	বেবেজীয়া গাঁও
৪২৯	শ্রী চিলো উৰাং	মনিৰাম উৰাং	বেবেজীয়া গাঁও
৪৩০	শ্রী বচন উৰাং	বইদাস উৰাং	বেবেজীয়া গাঁও
৪৩১	শ্রী মনিৰাম উৰাং	ঁৰঞ্জিত উৰাং	বেবেজীয়া গাঁও
৪৩২	শ্রী বিকাশ উৰাং	মনিৰাম উৰাং	বেবেজীয়া গাঁও
৪৩৩	শ্রী ধাদ উৰাং	ঁভুচু উৰাং	বেবেজীয়া গাঁও
৪৩৪	শ্রী ফুলমনি উৰাং	লাখুৰা উৰাং	বেবেজীয়া গাঁও
৪৩৫	শ্রী অজয় প্রজা	ৰূপা প্রজা	বেবেজীয়া গাঁও
৪৩৬	শ্রী চুতু মাংকী	লিলিমনি মাংকী	বেবেজীয়া গাঁও
৪৩৭	শ্রী ৰাজা মাংকী		বেবেজীয়া গাঁও
৪৩৮	শ্রী ৰাতু মাংকী	কালিয়া মাংকী	বেবেজীয়া গাঁও
৪৩৯	শ্রী কুনো প্রজা	মাৰু প্রজা	বেবেজীয়া গাঁও
৪৪০	শ্রী বিজয় প্রজা	মেঘু প্রজা	বেবেজীয়া গাঁও
৪৪১	শ্রী তেপা প্রজা	ৰূপু প্রজা	বেবেজীয়া গাঁও
৪৪২	শ্রী দুলেশ্বৰ চুতীয়া	ৰানেশ্বৰ চুতীয়া	বেবেজীয়া গাঁও
৪৪৩	শ্রী সুৰজিত চুতীয়া	ঁনিমন্ত্রণ চুতীয়া	বেবেজীয়া গাঁও
৪৪৪	শ্রী নবিন চুতীয়া	ঁগুন চুতীয়া	বেবেজীয়া গাঁও
৪৪৫	শ্রী কমলেশ্বৰ চুতীয়া	ঁগুন চুতীয়া	বেবেজীয়া গাঁও
৪৪৬	শ্রী তৰুণ চুতীয়া	ঁগুন চুতীয়া	বেবেজীয়া গাঁও
৪৪৭	শ্রী ৰহিম চুতীয়া	নৰেন্দ্র চুতীয়া	বেবেজীয়া গাঁও
৪৪৮	শ্রী প্রবোত চুতীয়া	গেন্দ্র চুতীয়া	বেবেজীয়া গাঁও
৪৪৯	শ্রী দনিধৰ চুতীয়া	ঁনদেশ্বৰ চুতীয়া	বেবেজীয়া গাঁও
৪৫০	শ্রী বিকাশ চুতীয়া	প্রবোত চুতীয়া	বেবেজীয়া গাঁও
৪৫১	শ্রী যুগান্ত চুতীয়া	প্রবোত চুতীয়া	বেবেজীয়া গাঁও
৪৫২	শ্রী মনোজ চুতীয়া	প্রবোত চুতীয়া	বেবেজীয়া গাঁও
৪৫৩	শ্রী মাধুর্য্য চুতীয়া	লাচিত চুতীয়া	বেবেজীয়া গাঁও
৪৫৪	শ্রী লাচিত চুতীয়া	ঁনিমন্ত্রণ চুতীয়া	বেবেজীয়া গাঁও
৪৫৫	শ্রী প্রাঞ্জল চুতীয়া	লাচিত চুতীয়া	বেবেজীয়া গাঁও
৪৫৬	শ্রী প্রমোদ দুৱৰা	ধানেশ্বৰ দুৱৰা	বেবেজীয়া গাঁও
৪৫৭	শ্রী প্রশান্ত দুৱৰা	মিনেধৰ দুৱৰা	বেবেজীয়া গাঁও
৪৫৮	শ্রীমতী সুভাষী দুৱৰা	ঁনিহিৰাম দুৱৰা	বেবেজীয়া গাঁও
৪৫৯	শ্রী দেব চুতীয়া	প্রবিন চুতীয়া	বেবেজীয়া গাঁও
৪৬০	শ্রী প্রবিন চুতীয়া	ঁআনন্দ চুতীয়া	বেবেজীয়া গাঁও
৪৬১	শ্রী জিতুল চুতীয়া	প্রবিন চুতীয়া	বেবেজীয়া গাঁও
৪৬২	শ্রী দিগন্ত চুতীয়া	ঁগইন চুতীয়া	বেবেজীয়া গাঁও

Fishery Field Asstt.
Dist. Fishery Dev. Officer
Tinsukia

GOVERMENT OF ASSAM
OFFICE OF THE DISTRICT AGRICULTURAL OFFICER, TINSUKIA

No. DAO/TSK/Inf./2020-21/ 269 Date: 19.06.2020

To

Mr. M. K. Yadava, IFS
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

Sub: Baghjan Oil Leakage incident (Well No. 5) – regarding

Ref No. OMEC/MKY/BGN-5/2020/L01/11 dated 15.06.2020

Sir,

With reference to the subject cited above, I have the honour to furnish below the Replies to the Points sought from your end pertaining to our Department for favour of your kind information and necessary action.

Point No.1 : Base line data prior to the occurrence of the incident of Blow Out is attached herewith in a separate sheet.

Point No.2 : Sampling studies, survey estimates are not carried out yet by our department. Case studies Carried out/recorded is attached herewith in a separate sheet.

Point No.2 : The Process of survey of Crop Damage is currently going on both sides of Motapung - Maguri Bill Eleka. Report will be submitted after completion of survey.

Enc. – Base line Data Sheet
Case Studies Sheet

19.6.2020

District Agricultural Officer
Tinsukia

Memo No. DAO/TSK/Inf/2020-21/ 269(A) Date:19.06.2020

Copy to:

1. The Deputy Commissioner, Tinsukia for favour of kind information and necessary action.

19.6.2020

District Agricultural Officer
Tinsukia

Base line data of Production & Productivity of Some Agricultural Crops for the Year 2018-19 for the Hapjan & Doomdooma Agril. Development Circle in Tinsukia district.

Sl. No.	Name of Crop	Hapjan ADO Circle			Doomdooma ADO Circle		
		Area (Ha)	Production (MT)	Productivity (in Qtl/Ha)	Area (Ha)	Production (MT)	Productivity (in Qtl/Ha)
1	Paddy	5676	16199.334	28.53	5284	15249.63	28.86
2	Orange	205	2298.87	112.14	184	2007.07	109.08
3	Assam Lemon	62.4	502.2	80.48	46.5	389.76	83.82
4	Banana	226.7	132620 Nos. of Thuk	585 Nos. of Thuk	215.8	132933 Nos. of Thuk	616 Nos. of Thuk
5	Papaya	18.6	2875.56	154.6	20.2	4348.66	152.8
6	Areacanut	274.6	1528.97	55.68	285.5	1595.37	55.88
7	Coconut	-	-	28 NOs/per Plant	-	-	26 Nos./plant
8	Batle Vine	84	907200 Nos. of Gusi	10800 Gusi/Ha	88.2	917280 Nos. of Gusi	10440 Gusi/Ha
9	Black Pepper	36	32.18	8.94	30.5	27.33	8.96
10	Tea (Green Leaf) Small Tea Garden	1772	23787.33	134.24	1596	21498.12	134.7
11	Guava	-	-	78.38	-	-	76.74
12	Jackfruit	-	-	44 Nos/Plant	-	-	52 Nos/Plant
13	Vegetables	285	2703.5	94.86	237.5	2195.45	92.44
14	Oil Seeds	23.5	2.538	1.08	31.5	3.65	1.16

19.6.2020

District Agricultural Officer
Tinsukia

Case Studies after the period of Blow Out incident:

The team from The District Agriculture Office, Tinsukia visited the Oil Spill Disaster area of Baghjan on 31st May, 2020. We went to the relief Camp at Baghjan M.E. School where around 600-650 Farm Families were taking shelter. There, we proceeded to the nearby areas for studying the extent of damage to Agricultural crops and Tea Groves. It is observed all green foliages were covered with oily smears and plant leaves are falling around profusely over the roads, fields etc. It thus shows that the Agricultural Crops were affected by this blow-out of oil from Baghjan oil well, but the extent of damage cannot be assessed so easily as it may seen.

The Task of assessing actual Agricultural crop damage may be entrusted to a team of Officers technically scientific back ground.

19.6.2020

District Agricultural Officer
Tinsukia

GOVERNMENT OF ASSAM
OFFICE OF THE DISTRICT FISHERY DEV. OFFICER
TINSUKIA

No. AFT-281/2020-21/35 Dated 15th Jun/2020

To,

The Circle Officer

Tinsukia Circle, Tinsukia

Sub : Regarding report on Fish Ponds and fishermen affected by gas leakage at Baghjan oil khad.

Sir,

With reference to the subject cited above and in continuation of earlier report I have the honour to inform you that till date 10nos. of fish farmer pond and 159nos. of fisherman has been affected due to the gas leakage at Baghjan oil khad well no.5. The report is not final and more numbers of affected fish farmer and fisherman will be covered in further survey report.

This is for favour of your kind information and necessary action

Your faithfully

Encl:- As stated above

District Fishery Dev. Officer
Tinsukia

Memo No. AFT-281/2020-21/35 Dated 15th Jun/2020

Copy to :

1. The Deputy Commissioner, Tinsukia for favour of kind information.
2. The Addl. PCCP(WL) & CWLW and one man enquiry committee, Tinsukia for favour of kind information and necessary action.

District Fishery Dev. Officer
Tinsukia

Dist. Fishery Dev. Officer
Tinsukia

LIST OF FISH FARMER AFFECTES DURING THE CASTLAKAGE AT BAGHJAN OIL KHAD

Sl. No.	Name	Address	Water area	Remarks
1.	Sri Prabitra Borgohain	S/o. Lt Nareswar Vill Natun Rangagora P.O. Limbuguri Mouza Rangagora Ph 6001080732	0.10 ha	
2.	Sri Sailen Boruah	S/o. Lt Gulen Boruah Vill- Natun Gaon Mirzapur	0.10 ha	
3.	Bijoy Phukan	Sri Rajen Phukan Vill Natun Gaon Mirzapur	0.10ha	
4.	Sri Gohin Borgohain	S/o. Nareswar Borgohain Vill Natun Rangagora	0.14ha	
5.	Sri Anil Boruah	S/o. Lt Moneswar Boruah Vill Natun Rangagora P.O. Rangagora Ph. 9365615434	0.07 ha	
6.	Sri Durga Sonowal	O/o. Lt Dipen Sonowal Vill Natun gaon	0.20	
7.	Sri Dijoy Sonowal	S/o. Lt Mitra Sonowal Vill Natungaon	0.10ha	
8.	Sri Thulanta Gohain	S/o. Sri Bhugen gohain Vill-Natun gaon Ph. 6900875043	0.05 ha	

District Fishery Dev. Officer
Dist. Fishery Dev. Officer
Tinsukia

LIST OF FISHER MEN AFFECTED DURING GAS LEAKGE AT BAGHJAN OIL KHAT

Sl.	Name	Address	Remarks
1	Bijit Gogoi	Suresh Gogoi Vill Natun Rangagora	
2	Bulen Gogoi	Suresh Gogoi Vill Natun Rangagora	
3	Kishur Chetia	Lakhi Chetia Vill- Natun Rangagora	
4	Mahendra Patar	Narendra Patar Vill- Natun Rangagora	
5	Parikh Gohain	Amal Gohain Vill- Natun Rangagora	
6	Takraj Hatibaruah	Tileswar Hatibaruah Vill- Natun Rangagora	
7	Agen Borgohain	Baburam Bargohain Vill- Natun Rangagora	
8	Dhanjyoti Borgohain	Sandeswar Borgohain Vill- Natun Rangagora	
9	Narenda Patar	Dhandhar Patar Vill- Natun Rangagora	
10	Midul Gohain	Puneswar Gohain Vill- Natun Rangagora	
11	Balu Baruah	Kageswar Baruah Vill- Natun Rangagora	
12	Rupam Borgohain	Arun Borgohain Vill- Natun Rangagora	
13	Babul Baruah	Parusuram Baruah Vill- Natun Rangagora	
14	Prakanta Baruah	Parusuram Baruah Vill- Natun Rangagora	
15	Atul Baruah	Parusuram Baruah Vill- Natun Rangagora	
16	Jyoti Baruah	Parusuram Baruah Vill- Natun Rangagora	
17	Ghyan Hazarikia	Kanteswar Hazarikia Vill- Natun Rangagora	
18	Jayanta Hazarikia	Nagen Hazarikia Vill- Natun Rangagora	
19	Bakul Hazarikia	Nalika Hazarikia	
20	Rantu Hazarikia	Gopi Hazarikia Vill- Natun Rangagora	
21	Mahan Dutta	Bidheswar Dutta Vill- Natun Rangagora	
22	Munin Dutta	Ajit Dutta Vill- Natun Rangagora	
23	Padeswar Barparta	Mildhar Barparta Vill- Natun Rangagora	

Dated 21.1.20

Tinsukia

24	Joganta Gogoi	Mahendra Gogoi Vill Natun Rangagora	
25	Nakul Gohain	Amal Gohain Vill Natun Rangagora	
26	Bedeswar Hazarikia	Kheswar Hazarikia Vill Natun Rangagora	
27	Apurba Gohain	Amal Gohain Vill- Natun Rangagora	
28	Dindajit Gohain	Amal Gohain Vill- Natun Rangagora	
29	Bubul Phukan	Malin Phukan Vill- Natun Rangagora	
30	Ratan Phukan	Malin Phukan Vill- Natun Rangagora	
31	Indraswar Dutta	Ajit Dutta Vill- Natun Rangagora	
32	Rajib Gogoi	Hareswar Gogoi Vill Natun Rangagora	
33	Padma Hazarikia	Gupi Hazarikia Vill- Natun Rangagora	
34	Humitra Hazarikia	Sagar Hazarikia Vill- Natun Rangagora	
35	Mahanta Gogoi	Vagirath Gogoi Vill- Natun Rangagora	
36	Bhart Gohain	Sanbar Gohain Vill- Balijan	
37	Balu Gogoi	Naliya Gogoi Vill- Balijan	
38	Babit Gogoi	Biren Gogoi Vill- Balian	
39	Pulak Gohain	Tholen Gohain Vill- Natun Rangagora	
40	Junabar Hanapati	Kageswar Hanapati Vill- Natun Rangagora	
41	Kiren Gohain	Lalit Gohain Vill- Natun Rangagora	
42	Mohan Dutta	Bireswar Dutta Vill- Natun Rangagora	
43	Kashab Gohain	Biken Gohain Vill- Natun Rangagora	
44	Suraj Hatibaruah	Kamal Hatibaruah Vill- Natun Rangagora	
45	Pabin Hatibaruah	Kamal Hatibaruah Vill- Natun Rangagora	
46	Nighu Nagbanshi	Madan Nagbanshi Vill- Natun Rangagora	
47	Budhan Nagbanshi	Manu Nagbanshi Vill- Natun Rangagora	

Dist. Fishery Dev. Officer
Tinsukia

48	Gara Nagbanshi	Maru Nagbanshi Vill- Natun Rangagora	
49	Lapa Nagbanshi	Barang Nagbanshi Vill - Natun Rangagora	
50	Bid Nagbanshi	Phula Nagbanshi Vill- Natun Rangagora	
51	Bid Nagbanshi	Phula Nagbanshi Vill- Natun Rangagora	

District Fishery Dev. Officer
Tinsukia

PART 7

REPLIES RECEIVED FROM OIL INDIA LIMITED

ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्यम)
Oil India Limited
(A Government of India Enterprise)

Safety & Environment Department
P.O. DULIAJAN-786602,
ASSAM, INDIA
Phone : 0374-2800542
Fax : 0374-2801796
Email : safety@oilindia.in

Ref. No. S&E/E/121/916

Date: 01.07.2020

M. K. Yadava, IFS,
Addl. PCCF (WL) & CWLW
One Man Enquiry Committee

Sub: Information about oil/ gas well around Dibru-Saikhowa National Park.

Ref.: Your letter no. OMEC/ MKY/ BGN-5/2020/L01/42 dated 27.06.2020.

Sir,

Reference above, the information asked to furnish against each point are as follow:

Query No (i): Out of the 26 nos of development wells and 15 nos exploratory wells to be drilled /drilled as proposed in EC, please furnish the distance of the drilling sites from the closest villages, schools etc. as per clause A(iv) of EC

.

Our reply: Normally there are no villages and schools are therein the close proximity of drilling location. OIL acquires the land are mostly belongs to tea garden or revenue land. OIL requires an area of 3-4 ha of land for drilling a well. However it has been seen that once drilling is completed the land which was left by OIL are partially encroach by the dwellers and slowly settled nearby the drilling wells.

The above is for your information please.

Yours sincerely,
For **Oil India Limited**

(S. Majumder)
Chief General Manager (HSE)
For Residence Chief Executive

ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्यम)
Oil India Limited
(A Government of India Enterprise)

Safety & Environment Department
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ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्यम)
Oil India Limited
(A Government of India Enterprise)

Safety & Environment Department
P.O. DULIAJAN-786602,
ASSAM, INDIA
Phone : 0374-2800542
Fax : 0374-2804888
Email : safety@oilindia.in

Ref No.: S&E/E/121/914

Date: 30.06.2020

M. K. Yadav, IFS
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

Ref: Letter No. OMEC/MKY/BGN-5/2020/L01/37 dated 26.06.2020.

Sub: Reply to the Queries of the above referred letter.

Sir,

Reference above, the replies to your queries are given below:

Query 1. Steps taken for cleaning of the oil spill in the Maguri Motapung beel with details of technology being used/ proposed to be used together with cost estimates.
Query 2. Steps taken for cleaning of the oil spills in various smaller water bodies around the blow out with details of technology being used/ proposed to be used together with cost estimates.

Reply to Query 1 & Reply Query 2: :

Picking up of spilled oil manually and by turbo pump: After the incident of blowout, several bunds were constructed around the area of blowout to arrest the spilled oil flowing to the nearby water bodies. The oil arrested inside the bundhs were picked up by manual efforts in drums and transferred to EPS-Baghjan. Turbo pumps driven by water jet were also been used for lifting spilled oil. Following Steps were taken to collect the oil by using following methods:

1. Using Oil Booms

The use of oil booms is a very simple and popular method of controlling oil spills. Equipment called containment booms acts like a fence to prevent the oil from further spreading or floating away. Booms float on the water surface and have three parts –

- A 'freeboard' is the part that rises above the water surface, containing the oil and preventing it from splashing over the top
- A 'skirt' is placed below the surface and keeps the oil from being squeezed under the booms and escaping
- A kind of cable or chain that connects the parts to strengthen and stabilize the boom. Connected sections of the boom are placed around the area of the oil spill until it is totally surrounded and contained.

2. Using Sorbents:

- Sorbents are materials that soak up liquids by either absorption (pulling in through pores) or adsorption (forming a layer on the surface). Both these properties make the process of clean-up much easier. Materials commonly used as oil sorbents are hay, peat moss, straw or vermiculite.

3. **Using Dispersants:**

- When the spilled oil cannot be contained by using booms, the only option left is to accelerate the disintegration of oil. Dispersal agents, such as Corexit 9500, are chemicals that are sprayed upon the spill with the help of boats, which aid the natural breakdown of oil components. They allow the oil to chemically bond with water by increasing the surface area of each molecule. This ensures that the slick does not travel over the surface of the water, and is easier to degrade by microbes

4. **Using Manual Labour:**

- As the name suggests, the method requires hand-held tools and manual labour to clean up the contaminants. It involves the use of manual means like hands, rakes, shovels etc. to clean the surface oil and oily debris and place them in special containers to be removed from the spilled area.

Spillage cleaning and Bio-remediation: Bio-remediation is a process of recuperating the original properties of oil contaminated soil and water by treating with oil consuming bacteria. Bioremediation refers to the use of specific microorganisms to remove any toxic or harmful substances. There are various classes of bacteria, fungi, archaea and algae that degrade petroleum products by metabolizing and breaking them into simpler and non-toxic molecules (mostly fatty acids and carbon dioxide). Sometimes, reagents and fertilizers may be added to the area. These phosphorus-based and nitrogen-based fertilizers provide adequate nutrients to the microbes so that they are able to grow and multiply quickly. OIL has engaged TERI with the objective to recuperate the original properties of whatever soil and water are contaminated with oil spillage in the BGN#5 incident. The estimated approximate volume for bioremediation is 6000 cu.m of soil and water around the BGN#5 well. The agreement copy of the contract by TERI is enclosed herewith. The actual cost estimate would be based on re-survey after capping of the well. (The agreement copy is enclosed for your reference).

The above is for your information and reply to your query asked in the mentioned letter please.

Yours sincerely,
For **Oil India Limited**

(S Majumder)
Chief General Manager (HSE)
For Resident Chief Executive

Encl: A/a

ऑयल इंडिया लिमिटेड
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P.O. DULIAJAN-786602,
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Phone : 0374-2800542
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Email : safety@oilindia.in

Ref No.: S&E/E/121/915

Date: 30.06.2020

M. K. Yadav, IFS
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

Ref: Letter No. OMEC/MKY/BGN-5/2020/L01/40 dated 26.06.2020.

Sub: Reply to the Queries of the above referred letter.

Sir,

Query: Quote- "With reference to the subject cited above, it is to mention that information sought has been furnished from your end. However, on perusal of the document of Environmental Clearance EC No. J-11-11/1255/2007-IA II (I) Dt. 01/11/2011 of the MoEF & CC, Govt. of India, New Delhi-110003, Sl. No. A (i) it has been mentioned that permission was granted for 26 nos. development wells and 15 nos. exploratory wells to be drilled: and that no additional wells shall be drilled without prior permission from the Ministry.

In this regard, OIL has submitted a list of 29 wells vide their reply Dt. 20.06.2020 as referred above.
The exact current status of all the wells including GPS points, type (development/exploratory) and status (shut/sick/producing/oil/gas/under drill/exploratory etc.), for which EC was obtained, may be furnished." **–Unquote**

Our reply: Please find below the list of well drilled/being drilled under Baghjan PML with status as follows:

Well Plinth	Sl. No.	Well Name	Longitude	Latitude	Oil/Gas
BGN-1 Plinth	1	BGN-01	95° 23' 37.033" E	27° 35' 42.410" N	Shut in
	2	SBG-1	95° 23' 38.531" E	27° 35' 42.596" N	Shut in
BGN-2 Plinth	3	BGN-02	95° 24' 12.220" E	27° 36' 15.857" N	Sick well
	4	BGN-08	95° 24' 12.807" E	27° 36' 16.061" N	To be abandoned
	5	BGN-23	95° 24' 14.297" E	27° 36' 15.561" N	Producing oil
BGN-3 Plinth	6	BGN-03	95° 23' 29.717" E	27° 36' 12.043" N	Shut in
BGN-4 Plinth	7	BGN-04	95° 24' 57.665" E	27° 36' 22.967" N	Producing oil
	8	BGN-06	95° 24' 56.948" E	27° 36' 23.674" N	Producing oil
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	10	BGN-09	95° 24' 57.424" E	27° 36' 23.314" N	Producing gas
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	12	SBG-2	95° 24' 56.416" E	27° 36' 23.395" N	Producing oil
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	29	BGN-27	95° 25' 38.469" E	27° 37' 28.188" N	Drilling well. Operation suspended.

No additional well is being drilled in Baghjan PML.

The above is for your information please.

Yours sincerely,
For **Oil India Limited**

(S Majumder)
Chief General Manager (HSE)
For Resident Chief Executive

Encl: A/a

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P.O. DULIAJAN-786602,
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Fax : 0374-2801796
Email : safety@oilindia.in

Ref. No. S&E/E/21/913

Date: 30.06.2020

To

M. K. Yadava, IFS,
Addl. PCCF (WL) & CWLW
One Man Enquiry Committee

Sub: Information about oil/ gas well around Dibru-Saikhowa National Park.

Ref.: Your letter no. (i) OMEC/ MKY/ BGN-5/2020/L01/36 dated 26.06.2020.

Sir,

Reference above, the information asked to furnish against each point are as follow:

Query No (i): Whether any seismic survey of the area near the blow out in 50-10 kms range was conducted in 1998-99 or any such period? If so, the findings/ report to be shared.

Query No (ii): Whether any seismic survey of the area near the blow out in 50-10 kms range was conducted in 2018-19 or any such period? If so, the findings/ report to be shared.

Our reply: (i) & (ii) : Please find enclosed herewith the details of reports carried out in connection with seismic survey. **(Copy enclosed as Annexure I)**

The above is for your kind information please.

Yours sincerely,
For **Oil India Limited**

(S. Majumder)
Chief General Manager (HSE)
For Residence Chief Executive

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Ref. No. S&E/E/121/917

Date: 30.06.2020

M. K. Yadava, IFS,
Addl. PCCF (WL) & CWLW
One Man Enquiry Committee

Sub: Information about oil/ gas well around Dibru-Saikhowa National Park.

Ref.: Your letter no. OMEC/ MKY/ BGN-5/2020/L01/44 dated 27.06.2020.

Sir,

Reference above, the information asked to furnish against each point are as follow:

Query No (i): The source of the oil

Our reply: The source of the oil is the BGN#5 well due to the blow out incident on 27.05.2020.

Query No (ii): The quantum of oil leaked.

Our reply: Production testing could not be completed in BGN#5 in the present reservoir due to unfortunate accident (Blowout). However, the well BGN#3 also completed in the same sand as per G&G understanding. Based on the production behavior of BGN#3, considering perforation range, bean size etc. a rough estimated 10 KL (per day) condensate can be considered as of now. Actual rate can be calculated once complete testing will be done using different beans. Hence, approximately 130 KL of condensate leaked form BGN#5 well till the well caught fire on 09.06.2020 (based on calculation on data from similar well BGN-3, since the production testing could not be completed in BGN#5 in the present reservoir due to the Blowout).

Query No (iii): Steps taken to neutralize the collected oil earlier to this new event.

Our Reply: Bio-remediation is a process of recuperating the original properties of oil contaminated soil and water by treating with oil consuming bacteria. OIL has engaged TERI with the objective to recuperate the original properties of whatever soil and water are contaminated with oil spillage in the BGN#5 incident. The estimated approximate volume for bioremediation is 6000 cu.m of soil and water around the BGN#5 well. The agreement copy of the contract by TERI is enclosed herewith. The actual cost estimate would be based on re-survey after capping of the well. (The agreement copy is enclosed for your reference).

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Ref. No. S&E/121/918

Date : 30.06.2020

MK Yadava, IFS
Addl. PCCF(WL) & CWLW
One Man Enquiry Committee

Sub: Information about Oil/Gas well at Dibru Saikhowa National Park

Ref. 1. Your letter ref. No. OMEC/MKY/BGN-5/2020/LO1/45 dated 27.06.2020

Sir,

Reference to the letter please find below the reply against your query :

Query: Out of the 26 nos development wells and 15 exploratory wells to be drilled /drilled as specified in EC, Three no (3 nos) of wells namely BGN#25,BGN#26 & BGN#27 of the well plinth BGN#25 Plinth are lying outside the boundary as specified in EC. If any additional EC has been issued against the aforesaid wells, the same please be furnished.

Our reply: Although BGN#25 plinth is marginally outside the boundary of EC, however, it is within the Baghjan PML boundary. OIL has already applied for new EC for additional wells. The BGN#25,BGN#26 & BGN#27 will be within the boundary limit of proposed EC. The TOR for new EC was applied on dated 12.11.2016. As per TOR conditions the EIA study has been carried out and public consultation has also been done on dated 12.03.2020.

Above is for your kind information please.

Yours sincerely,
For **OIL INDIA LIMITED**

(Suranjan Majumder)
Chief General Manager(HSE)
For Resident Chief Executive

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MK Yadava, IFS
Addl. PCCF(WL) & CWLW
One Man Enquiry Committee

Sub: Information about Oil/Gas well at Dibru Saikhowa National Park

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	29	BGN-27	95° 25' 38.469" E	27° 37' 28.188" N	Drilling well. Operation suspended.

No additional well is being drilled in Baghjan PML.

The above is for your information please.

Yours sincerely,
For **Oil India Limited**

(S Majumder)
Chief General Manager (HSE)
For Resident Chief Executive

Encl: A/a

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Ref. No. S&E/E-121/892

Date : 29.06.2020

MK Yadava, IFS
Addl. PCCF(WL) & CWLW
One Man Enquiry Committee

Sub: Information about Oil/Gas well at Dibru-Saikhowa National Park

Ref. 1. Your letter ref. No. OMEC/MKY/BGN-5/2020/LO1/41 dated 26.06.2020

Sir,

Reference to the letter please find below the reply against your qucrics :

Query no:1 : Whether permission was obtained from the State Forest Department as per Clause A(iii) of the EC? May please furnish copies.

Our reply: Please note that all drilling wells are within revenue land . The impact of drilling activities on the nearby Flora & fauna was studied in the Environment impact assessment study. According to the EIA study no significant impact has was envisaged(Copy of EIA study is already submitted to you). Additionally ,we had requested State Forest Department for providing forest permission vide our letter dated S&E/E/43/2065 dated 11.11.2016. (Copy enclosed as **Annexure I**)

Query no:2 : For the commercially producing wells (oil/gas) whether fresh EC was obtained from MoEF & CC as per clause A(xxiii)

Our reply: The action has already been initiated to obtain fresh EC of the wells put under production. Online application for EC of composite proposal (drilling wells/production/laying of pipelines) was submitted in the year 2016.The TOR was received from MoEF&CC in the year 08.09.2017. As per the TOR condition detail Environmental Impact Assessment study was carried out and public hearing was also held in 12.03.2020. The process get delayed due to CAA protest and then subsequent Covid-19 pandemic.

Query no:3: Action taken report/documents on the compliance of the following clauses of the EC may be furnished:

A(v), A(xiv) ,A(xvi), A(xviii), A(xix), A(xx), A(xxiii), A(xxvi), A(xxviii)

Our reply: The documents are enclosed as Annexures .

CLAUSE	SPECIFIC CONDITIONS	Enclosure
A(v)	Ambient air quality shall be monitored near the closest human settlements as per the National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 for PM10, PM2.5, SO2, NOX, CO, CH4, HC, Non-methane HC etc.	**Annexure II**

A(xiv)	Oil spillage prevention and mitigation scheme shall be prepared. In case of oil spillage/contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers.	**Annexure III**
A(xvi)	The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. Possibility of using ground flare shall be explored. At the place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation.	**No flaring is done in drilling wells.**
A(xviii)	The Company should carry out long term subsidence study by collecting base line data before initiating drilling operation till the project lasts. The data so collected should be submitted six monthly to the Ministry and its Regional Office at Shillong.	**Annexure IV**
A(xix)	Blow Out Preventor (BOP) system shall be installed to prevent well blowouts during drilling operations. BOP measures during drilling shall focus on maintaining well bore hydrostatic pressure by proper pre-well planning and drilling fluid logging etc.	All the rig platforms are provided with blow out preventor system to prevent well blowout during drilling operation.
A(xx)	Emergency Response Plan (ERP) shall be based on the guidelines prepared by OISD, DGMS and Govt. of India.	**Annexure V**
A(xxiii)	In case the commercial viability of the project is established, the Company shall prepare a detailed plan for development of oil and gas fields and obtain fresh environmental clearance from the Ministry.	Fresh EC applied in 2016 as replied vide query no.2.
A(xxvi)	Company shall prepare and circulate the environmental policy.	**Annexure VI**
A(xxviii)	Base and side of Drill cutting storage pits and supernatant storage pit shall be provided with HDPE lining. Overflow channel and oil grease trap facility shall be provided.	HDPE lines are provided in all drilling wells **Annexure VII**

Above is for your kind information please.

Thanking you,

Yours faithfully
For: OIL INDIA LIMITED

(Suranjan Majumder)
CGM(HSE)
For: Resident Chief Executive

ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्यम)
Oil India Limited
(A Government of India Enterprise)

Safety & Environment Department
P.O. DULIAJAN-786602,
ASSAM, INDIA
Phone : 0374-2800542
Fax : 0374-2801796
Email : safety@oilindia.in

Ref. No. S&E/E-121/892

Date : 29.06.2020

MK Yadava, IFS
Addl. PCCF(WL) & CWLW
One Man Enquiry Committee

Sub: Information about Oil/Gas well at Dibru Saikhowa National Park

Ref. Your letter ref. No. OMEC/MKY/BGN-5/2020/LO1/38 dated 26.06.2020

Sir,

Reference to your letter please find below the reply against your query :

Query no:1 : Letter to the Conservator of Forest (Wildlife)

Our reply: The document couldn't be traced since it was issued in 2011.However we are looking for it and will be submitted to you once obtained.

Query no:2 : Certificate from PCCF(WL),Assam received vide letter ref. WL/FG.35/Nodal Proposal /OIL dt. 18.06.2010

Our reply: The document couldn't be traced since it was issued in 2011.However we are looking for it and will be submitted to you once obtained..

Query no:3: Email received from M/s ENGECORC

Our reply: The document couldn't be traced since it was issued in 2011.However we are looking for it and will be submitted to you once obtained.

Query no:4: TOR issued by MoEF

Our reply: TOR copy enclosed as **annexure I**

Above is for your kind information please.

Thanking you,

Yours faithfully
For: OIL INDIA LIMITED

(Suranjan Majumder)
CGM(HSE)
For: Resident Chief Executive

(S. Majumder)
GM (FS)-HoD (S&E)
Nodal Officer (EC/FC/NBWL)
OIL INDIA LIMITED

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Ref. No. S&E/E-121/892

Date : 29.06.2020

MK Yadava, IFS
Addl. PCCF(WL) & CWLW
One Man Enquiry Committee

Sub: Information about Oil/Gas well at Dibru-Saikhowa National Park

Ref. 1. Your letter ref. No. OMEC/MKY/BGN-5/2020/LO1/41 dated 26.06.2020

Sir,

Reference to the letter please find below the reply against your qucrics :

Query no:1 : Whether permission was obtained from the State Forest Department as per Clause A(iii) of the EC? May please furnish copies.

Our reply: Please note that all drilling wells are within revenue land . The impact of drilling activities on the nearby Flora & fauna was studied in the Environment impact assessment study. According to the EIA study no significant impact has was envisaged(Copy of EIA study is already submitted to you). Additionally ,we had requested State Forest Department for providing forest permission vide our letter dated S&E/E/43/2065 dated 11.11.2016. (Copy enclosed as **Annexure I**)

Query no:2 : For the commercially producing wells (oil/gas) whether fresh EC was obtained from MoEF & CC as per clause A(xxiii)

Our reply: The action has already been initiated to obtain fresh EC of the wells put under production. Online application for EC of composite proposal (drilling wells/production/laying of pipelines) was submitted in the year 2016.The TOR was received from MoEF&CC in the year 08.09.2017. As per the TOR condition detail Environmental Impact Assessment study was carried out and public hearing was also held in 12.03.2020. The process get delayed due to CAA protest and then subsequent Covid-19 pandemic.

Query no:3: Action taken report/documents on the compliance of the following clauses of the EC may be furnished:

A(v), A(xiv) ,A(xvi), A(xviii), A(xix), A(xx), A(xxiii), A(xxvi), A(xxviii)

Our reply: The documents are enclosed as Annexures .

CLAUSE	SPECIFIC CONDITIONS	Enclosure
A(v)	Ambient air quality shall be monitored near the closest human settlements as per the National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 for PM10, PM2.5, SO2, NOX, CO, CH4, HC, Non-methane HC etc.	**Annexure II**

A(xiv)	Oil spillage prevention and mitigation scheme shall be prepared. In case of oil spillage/contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers.	**Annexure III**
A(xvi)	The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. Possibility of using ground flare shall be explored. At the place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation.	**No flaring is done in drilling wells.**
A(xviii)	The Company should carry out long term subsidence study by collecting base line data before initiating drilling operation till the project lasts. The data so collected should be submitted six monthly to the Ministry and its Regional Office at Shillong.	**Annexure IV**
A(xix)	Blow Out Preventor (BOP) system shall be installed to prevent well blowouts during drilling operations. BOP measures during drilling shall focus on maintaining well bore hydrostatic pressure by proper pre-well planning and drilling fluid logging etc.	All the rig platforms are provided with blow out preventor system to prevent well blowout during drilling operation.
A(xx)	Emergency Response Plan (ERP) shall be based on the guidelines prepared by OISD, DGMS and Govt. of India.	**Annexure V**
A(xxiii)	In case the commercial viability of the project is established, the Company shall prepare a detailed plan for development of oil and gas fields and obtain fresh environmental clearance from the Ministry.	Fresh EC applied in 2016 as replied vide query no.2.
A(xxvi)	Company shall prepare and circulate the environmental policy.	**Annexure VI**
A(xxviii)	Base and side of Drill cutting storage pits and supernatant storage pit shall be provided with HDPE lining. Overflow channel and oil grease trap facility shall be provided.	HDPE lines are provided in all drilling wells **Annexure VII**

Above is for your kind information please.

Thanking you,

Yours faithfully
For: OIL INDIA LIMITED

(Suranjan Majumder)
CGM(HSE)
For: Resident Chief Executive

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Phone : 0374-2800542
Fax : 0374-2801796
Email: safety@oilindia.in

Ref. No. S&E/E-121)/820

Date : 20.06.2020

MK Yadava, IFS
Addl. PCCF(WL) & CWLW
One Man Enquiry Committee

Sub: Information about oil/gas well around Dibru-Saikhowa National park

Ref. Your letter ref. No. OMEC/MKY/BGN-5/2020/LOI/26 dated 17.06.2020

Sir,

Reference to your letter please find below the reply against your query

Query no:1 : How many of OIL and Gas there in Baghjan area within 5 kilometers distance from Dibru-Saikhowa National Park. Kindly provide the GPS coordinate of these wells too.

Our reply: The details are enclosed as annexure I.

Query no:2 : What is the status of the land of these wells ? Whether the land belongs to revenue area, Forest area or deemed Forest area.

Our reply: All wells are situated in the revenue area. No wells are situated in Forest area or deemed forest.

Query no:3 :When did OIL applied for clearances of National Board of wildlife, State Board of Wildlife? Kindly provide the copies of these letters

Our reply: The Terms of Reference (TOR) application for North Hapjan Tinsukia Dhola block was submitted on 19.11.2007 . It may be noted that since our documents /maps were prepared based on the available SOI toposheet , the map shows only Reserve forest areas. No National park /Wildlife Sanctuaries / ecologically sensitive areas was mentioned in the SOI toposheet. The Environment clearance obtained from MoEF &CC in the year 2011, it was mentioned that No national park/wildlife sanctuary/eco-sensitive area are located within 10 km.. In this connection a letter was written to DFO-Tinsukia-WL division dated 19.09.2011 & 10.10.2011,requesting for demarcation of the wildlife sanctuary.(Copy enclosed as annexure II)

Query no-4: When did OIL applied for Environmental Clearance and when did it obtained the same.

Our reply: OIL applied for EC on 19.11.2007 and received on 1st November 2011.(Copy enclosed as annexure III)

Above is for your kind information please.

Thanking you,

Yours faithfully
For: OIL INDIA LIMITED

(Suranjan Majumder)
CGH(HSE)
For: Resident Chief Executive

Annexure – I

Surface coordinates of wells in Baghjan area within 5 km distance from Dibru Saikhowa National Park

Well Plinth	Sl. No.	Well Name	Longitude	Latitude	Oil/Gas
BGN-1 Plinth	1	BGN-01	95° 23' 37.033" E	27° 35' 42.410" N	Shut in
	2	SBG-1	95° 23' 38.531" E	27° 35' 42.596" N	Shut in
BGN-2 Plinth	3	BGN-02	95° 24' 12.220" E	27° 36' 15.857" N	Sick well
	4	BGN-08	95° 24' 12.807" E	27° 36' 16.061" N	To be abandoned
	5	BGN-23	95° 24' 14.297" E	27° 36' 15.561" N	Producing oil
BGN-3 Plinth	6	BGN-03	95° 23' 29.717" E	27° 36' 12.043" N	Shut in
BGN-4 Plinth	7	BGN-04	95° 24' 57.665" E	27° 36' 22.967" N	Producing oil
	8	BGN-06	95° 24' 56.948" E	27° 36' 23.674" N	Producing oil
	9	BGN-07	95° 24' 57.039" E	27° 36' 23.076" N	Producing gas
	10	BGN-09	95° 24' 57.424" E	27° 36' 23.314" N	Producing gas
	11	BGN-10	95° 24' 58.750" E	27° 36' 22.746" N	Producing oil
	12	SBG-2	95° 24' 56.416" E	27° 36' 23.395" N	Producing oil
BGN-5 Plinth	13	BGN-05	95° 22' 50.905" E	27° 35' 46.533" N	Under workover
	14	BGN-21	95° 22' 51.164" E	27° 35' 46.764" N	Abandoned
BGN-11 Plinth	15	BGN-11	95° 24' 11.316" E	27° 36' 43.882" N	Sick well
	16	BGN-12	95° 24' 11.068" E	27° 36' 43.968" N	Producing oil
	17	BGN-13	95° 24' 10.495" E	27° 36' 44.210" N	Producing gas
	18	BGN-20	95° 24' 9.946" E	27° 36' 44.429" N	Shut in
	19	BGN-24	95° 24' 9.367" E	27° 36' 44.689" N	Producing oil
BGN-14 Plinth	20	BGN-14	95° 25' 13.020" E	27° 36' 56.933" N	Producing oil
	21	BGN-15	95° 25' 12.381" E	27° 36' 56.846" N	Producing oil
	22	BGN-16	95° 25' 11.771" E	27° 36' 56.713" N	Awaiting testing
	23	BGN-17	95° 25' 11.076" E	27° 36' 56.669" N	Producing oil
	24	BGN-18	95° 25' 12.008" E	27° 36' 57.021" N	Producing oil
	25	BGN-19	95° 25' 12.649" E	27° 36' 57.156" N	Producing oil
	26	BGN-22	95° 25' 11.360" E	27° 36' 56.937" N	Producing oil
BGN-25 Plinth	27	BGN-25	95° 25' 39.184" E	27° 37' 25.991" N	Producing oil
	28	BGN-26	95° 25' 38.853" E	27° 37' 27.472" N	Producing oil
	29	BGN-27	95° 25' 38.469" E	27° 37' 28.188" N	Drilling well. Operation suspended.

Annexure : II

ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्यम)
Oil India Limited
(A Government of India Enterprise)

Production (Gas) Department
Tel No. : +91-374-2800519, 2800450
Fax No. : +91-374-2800450, 2800533, 2800290, 2801680
E-mail : prodgas@oilindia.in
Website : www.oil-india.in

Regd. Office : Duliajan-786602, Assam (India)

Ref : PDNG: 27/14(EC) –1090 /11

Date : 19/09/2011

To,

The Divisional Forest Officer
Tinsukia Wildlife Division
Tinsukia

Sub : Demarcation of National Parks, Wild Life Sanctuaries and Ecologically Sensitive Areas
Ref. : Letter ref. A-TWL/G-66/2010/367-368 dt. 03/06/2010

Sir,

Reference your above letter to the Conservator of Forests (Wildlife), Assam and copied to us (copy enclosed as Annexure-1), certificate from PCCF, Wildlife, Assam was received vide letter ref. WL/FG.35/Nodal Proposal/OIL dt. 18/06/2010 (copy enclosed as Annexure-2).

Draft report of the EIA study was submitted to PCBA, Assam and Public Hearings on the proposed projects were held on 23rd, 25th and 26th of August, 2011. In the Public Hearings there was a demand from various environmental activist groups and NGOs for demarcation of National Parks, Wild Life Sanctuaries and Ecologically Sensitive Areas situated in the vicinity of the project area.

It may be mentioned here that since our map showing the forest areas (attached with the EIA Study Report) is based on available SOI Toposheets, the map shows only Reserve Forest Areas without demarcating the boundaries of National Parks, Wild Life Sanctuaries and Ecologically Sensitive Areas.

In this regard, our consultant M/s En-Geo Consultancy and Research Centre (ENGECORC) had a discussion with CCF, Wildlife (Dr. S.P. Singh) in the PCCF (Wildlife) Office who in turn advised that OIL should write to concerned DFOs for necessary demarcation. Email received from M/s ENGECORC and copy of the TOR issued by MoEF are attached (as Annexure-3 and Annexure-4) for your reference please.

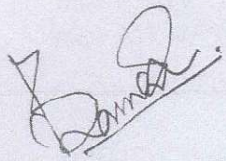
Received on 27/9/2011

View above, we would like to request you to kindly arrange for demarcation of the National parks, Wild Life Sanctuaries and Ecologically Sensitive Areas situated in the vicinity of the project area in the Map enclosed herewith.

Thanking you,

Yours sincerely,

For : Oil India Limited



(K J Baruah)
Head-Prodn (Gas)
For : Resident Chief Executive

Annexure – III

Drilling of Development Well (26 Nos.) and Exploratory Well (15 Nos.) at N. Hapjan-Tinsukia-Dhola Area in District Tinsukia Assam by M/s Oil India Limited – Environmental Clearance reg.

F. No. J-11011/1255/2007 - IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

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

E-mail : pb.rastogi@nic.in
Telefax : 011: 2436 7668
Dated 1st November, 2011

To,

The Group General Manager (SB)
M/s Oil India Limited.
Duliajan District Dibrugarh- 768 602, Assam

E-mail: drilling@oilindia.in ;
Fax No.: 0374-2803 296

Subject: Drilling of Development Well (26 Nos.) and Exploratory Well (15 Nos.) at N. Hapjan-Tinsukia-Dhola Area in District Tinsukia Assam by M/s Oil India Limited – Environmental Clearance reg.
Ref. : Your letter no. DRLG/DS/A.19-192/10 dated 28th December, 2010.

Sir,

Kindly refer your letter dated 28th December, 2010 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report and subsequent communications vide your letter dated 25th June, 2011 on the above mentioned subject.

2.0 The Ministry of Environment & Forests has examined your application. It is noted that proposal is for drilling of development well (26 Nos.) and exploratory well (15 Nos.) at N. Hapjan-Tinsukia-Dhola Area in District Tinsukia Assam by M/s Oil India Limited. Block Coordinate is between Longitude 95^0 20' -- 95^0 32' and Latitude 27^0 27' -- 27^0 37'. Block area is 650 sq KM. Project cost is Rs. 15.00 Crores for each well. Borajan reserve forest (RF), Bherjan RF, Padumani RF, Dibru RF, Upper Dihing (west) RF complex including Lakhipathar RF are

located within 10 Km. No national park/wildlife sanctuary/eco-sensitive area are located within 10 km.

3.0 Stack of adequate height will be provided to DG set. Flaring will be done in a controlled manner through scientifically designed flaring system. Water requirement will be 40 m^3 per well/day for drilling purpose and 2 m^3 per well/day for domestic use. Effluent generation will be 20 m^3 (approx) per well/day during drilling phase. Effluent will be stored in HDPE lined pit and treated as per CPCB/SPCB norms and recycled. Water based mud will be used in drilling. Drill cuttings generation will be 200 m^3/well. Drill cuttings will be stored in HDPE lined pit for safe disposal.

4.0 The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 77th, 21st and 26th meetings held during 21st-24th January, 2008, 23rd–24th March, 2011 and 17th–18th August, 2011 respectively.

5.0 All the projects related to offshore and onshore Oil and Gas exploration, development and production are listed in para 1(b) of schedule of EIA Notification, 2006 covered under category 'A' and appraised at centre level.

6.0 Public hearing was exempted as per Para 7 (II) of EIA Notification 2006.

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

A. SPECIFIC CONDITIONS :

i. As proposed, only development well (26 Nos.) and exploratory well (15 Nos.) shall be drilled. No additional wells shall be drilled without prior permission from this Ministry.

ii. As proposed, no drilling of well and any construction work shall be carried out in forest land.

iii. Permission shall be obtained from the State Forest Department regarding the impact of the proposed drilling on the surrounding reserve forest viz. Borajan RF, Bherjan RF, Padumani RF, Dibru RF, Upper Dihing (west) RF complex including Lakhipathar RF.

iv. Drilling site shall not be close to villages, schools etc.

v. Ambient air quality shall be monitored near the closest human settlements as per the National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 for PM_{10}, $PM_{2.5}$, SO_2, NO_x, CO, CH_4, HC, Non-methane HC etc.

vi. The flare system shall be designed as per good oil field practices and Oil Industry Safety Directorate (OISD) guidelines. The stack height shall be provided as per the regulatory requirements and emissions from stacks will meet the MOEF/CPCB guidelines.

vii. The company shall make the arrangement for control of noise from the drilling activity. Acoustic enclosure shall be provided to DG sets and proper stack height shall be provided as per CPCB guidelines.

viii. Mercury shall also be analyzed in air, water and drill cuttings twice during drilling period.

ix. Approach road shall be made pucca to minimize generation of suspended dust.

x. Total fresh water requirement shall not exceed 42 m^3/day/well and prior permission shall be obtained from the concerned agency.

xi. The company shall construct the garland drain all around the drilling site to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non-oil contaminated. Effluent shall be properly treated and treated wastewater shall conform to CPCB standards.

xii. Drilling wastewater including drill cuttings wash water shall be collected in disposal pit lined with HDPE lining evaporated or treated and shall comply with the notified standards for on-shore disposal. The membership of common TSDF should be obtained for the disposal of drill cuttings and hazardous waste. Otherwise, secured land fill shall be created at the site as per the design approved by the CPCB and obtain authorization from the SPCB. Copy of authorization or membership of TSDF shall be submitted to Ministry's Regional Office at Shillong.

xiii. Good sanitation facility shall be provided at the drilling site. Domestic sewage shall be disposed off through septic tank/ soak pit.

xiv. Oil spillage prevention and mitigation scheme shall be prepared. In case of oil spillage/contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers.

xv. The company shall comply with the guidelines for disposal of solid waste, drill cutting and drilling fluids for onshore drilling operation notified vide GSR.546(E) dated 30th August, 2005.

xvi. The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. Possibility of using ground flare shall be explored. At the place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation.

xvii. The company shall develop a contingency plan for H_2S release including all necessary aspects from evacuation to resumption of normal operations. The workers shall be provided with personal H_2S detectors in locations of high risk of exposure along with self containing breathing apparatus.

xviii. The Company should carry out long term subsidence study by collecting base line data before initiating drilling operation till the project lasts. The data so collected should be submitted six monthly to the Ministry and its Regional Office at Shillong.

xix. Blow Out Preventor (BOP) system shall be installed to prevent well blowouts during drilling operations. BOP measures during drilling shall focus on maintaining well bore hydrostatic pressure by proper pre-well planning and drilling fluid logging etc.

xx. Emergency Response Plan (ERP) shall be based on the guidelines prepared by OISD, DGMS and Govt. of India.

xxi. The company shall take measures after completion of drilling process by well plugging and secured enclosures, decommissioning of rig upon abandonment of the well and drilling site shall be restored the area in original condition. In the event that no economic quantity of hydrocarbon is found a full abandonment plan shall be implemented for the drilling site in accordance with the applicable Indian Petroleum Regulations.

xxii. Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.

xxiii. In case the commercial viability of the project is established, the Company shall prepare a detailed plan for development of oil and gas fields and obtain fresh environmental clearance from the Ministry.

xxiv. Restoration of the project site shall be carried out satisfactorily and report shall be sent to the Ministry's Regional Office at Shillong.

xxv. Oil content in the drill cuttings shall be monitored by some Authorized agency and report shall be sent to the Ministry's Regional Office at Shilong.

xxvi. Company shall prepare and circulate the environmental policy.

xxvii. Company shall prepare operating manual in respect of all activities. It shall cover all safety & environment related issues and system. Measures to be taken for protection. One set of environmental manual shall be made available at the drilling site/ project site. Awareness shall be created at each level of the management. All the schedules and results of environmental monitoring shall be available at the project site office.

xxviii. Base and side of Drill cutting storage pits and supernatant storage pit shall be provided with HDPE lining. Overflow channel and oil grease trap facility shall be provided.

xxix. Chemical characteristics and toxicity in respect of amine and all other chemicals should be found out and monitoring arrangement should be made. A copy of report should be sent to the Ministry's Regional Office at Shilong.

xxx. Company shall ensure good housekeeping at the drilling site.

xxxi. Company shall have own Environment Management Cell having qualified persons with proper background. Full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.

B. GENERAL CONDITIONS:

i. The project authorities must strictly adhere to the stipulations made by the Assam Pollution Control Board (APCB), State Government and any other statutory authority.

ii. No further expansion or modification in the project shall be carried out without prior approval of the Ministry of Environment & Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

iii. The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable.

iv. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise

generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).

v. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.

vi. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the APCB. The criteria pollutant levels namely; PM_{10}, SO_2, NOx, HC (Methane & Non-methane), VOCs (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

vii. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the APCB. The Regional Office of this Ministry / CPCB / APCB shall monitor the stipulated conditions.

viii. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.

ix. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the APCB and may also be seen at Website of the Ministry of Environment and Forests at http:/envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office.

x. Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.

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

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

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

(Dr. P. B. Rastogi)
Director

Copy to:

1. Principal Secretary, Department of Environment & Forest, Govt. of Assam, Guwahati, Assam.
2. The Chief Conservator of Forests, Regional Office (North-East Zone, Shillong) Upland Road, Laitumhran Shillong-793003.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Assam Pollution Control Board, Bamunimaidam, Guwahati – 21 Assam.
5. Adviser, IA II(I), Ministry of Environment and Forests, Paryavaran Bhavan, *CGO* Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, *CGO* Complex, New Delhi.
7. Guard File/Monitoring File/Record File.

(Dr. P. B. Rastogi)

Director

PART 8

REPLIES RECEIVED FROM OTHER ORGANIZATIONS

Gmail oneman committeemky <onemancommitteemky@gmail.com>

Fwd: Regarding OIL Well Blowout and its aftereffects

1 message

ABITA ZONE 1 <z1abita@gmail.com> 11 July 2020 at 23:33
To: cmd@oilindia.in
Cc: rce@oilindia.in, onemancommitteemky@gmail.com, "DC, Tinsukia" <dc-tinsukia@nic.in>, ALC Tinsukia <alctsk@gmail.com>, kpdas73@gmail.com

Assam Branch Indian Tea Association

Zone 1, Dibrugarh

Z1/ABITA/299 10/07/2020

Shri. Sushil Chandra Mishra
Chairman-cum-Managing Director
Oil India Limited
Corporate Office
Sector 16A
Noida – 201301

Dear Sir.

Damage caused to garden assets due to ground vibrations originating from Baghjan Well Number 5

I refer to the enclosed mail received from Deamoolie T.E., a member of Assam Branch Indian Tea Association (ABITA), the contents of which are self-explanatory.

Incessant vibrations originating from the blowout site at Baghjan Well Number 5 have caused extensive damage to the properties of Deamoolie TE which is in the vicinity of the blowout site.

The garden has reported that ever since the blowout happened, a brick wall, two concrete bridges connecting the Main Road & Sec no. 5 to the Estate Factory and a section of the garden road in Division No. 1 have collapsed due to extreme vibrations.

Restoration of these assets would require huge expenditures and financial resources.

Reportedly, vibrations are still being felt and one cannot rule out the possibility of a major mishap occurring in the estate due to collapse of structures unable to withstand the vibrations.

We therefore request Oil India Ltd. to –

i) urgently send a team of technical experts to inspect the damaged site,

ii) urgently take all measures necessary at Deamoolie TE to minimize the adverse consequences of the blowout and precautions to prevent occurrence of accidents resulting from ground vibrations.

iii) urgently send a survey team to assess the extent of damage caused to the garden assets due to ground vibrations and compensate the garden the loss suffered in due course.

We look forward to a positive response from your end.

Yours faithfully

Sd/-
Madhurjya Barooah
Secretary, Zone 1

Copy to:
1) The Resident Chief Executive, Oil India Ltd, Duliajan
2) Shri. MK Yadava, Addl. PCCF & CWLW, heading the One Man Committee constituted by Govt. of Assam
3) The Deputy Commissioner, Tinsukia
4) The Assistant Labour Commissioner, Tinsukia
5) The Manager, Deamoolie TE

---------- Forwarded message ---------
From: **Manager Deamoolie TE** <mgrdea@jameswarrentea.com>
Date: Thu, Jul 9, 2020 at 11:51 AM
Subject: Regarding OIL Well Blowout and its aftereffects
To: ABITA ZONE <z1abita@gmail.com>
Cc: Vikram Saraogi <vikramsaraogi@jameswarrentea.com>

Dear Sir,

This is to bring to your kind no ce that the Blowout which happened at Baghjan Oil Well no. 5 and the consequent fires, have been causing tremors for a long me which can be felt in Deamoolie Tea Estate as well. The tremors have been so intense that it had caused two of our bridges viz; Bridge connec ng Main Road to Deamoolie T.E. Factory, and the other bridge connec ng Sec no. 5 in Division – I of the estate to the Factory to collapse on 24th June 2020, and yesterday on 8th July 2020, the boundary wall of the Medical Officer's Bungalow had also collapsed because of the same reason. The photographs of the above are enclosed herewith for your reference.

As it is evident from the above, the pucca structures in the estate are under constant threat due to the tremors caused by the blowout, and we fear that this might very well lead to a major accident leading to loss of lives if Labour quarters or Factory or Bungalows are affected due to these constant vibra ons.

I, therefore, shall be glad if you kindly intervene in the ma er so that the issue is taken up urgently at your end and sorted out.

Kind regards,

Subhabrata Sikdar
Manager - Deamoolie Tea Estate
James Warren Tea Limited
P.O. Doom Dooma - 786 151, Dist. Tinsukia, Assam
Email: mgrdea@jameswarrentea.com

4 attachments

Main_Link_Bridge_connecting_Main_Road_to_Factory_Cut_off_-_1.jpg
2740K

Main_Link_Bridge_connecting_Main_Road_to_Factory_Cut_off_-_2.jpg
2065K

Bridge_connecting_Division_-_I_to_Factory_cut_off.jpeg
318K

Bungalow_Boundary_Wall.jpeg
508K

সদৌ অসম ক্ষুদ্র চাহ খেতিয়ক সস্থা
All Assam Small Tea Growers' Association

পঞ্জীয়ন নং ঃ ৩০৯২/৮৭ • Regd. No. 3092/87

Head Office : Sarala Nagar, Jorhat By-Pass • P. O. : & Dist. : Jorhat, Assam • Pin - 785 001

President	Working President	General Secretary
Rajen Bora	**Bishnu Basumatary**	**Karuna Mahanta**
Borbamchungi, P. O. : Chungi	South Bazar Road, Ward No. : 8	Balisatra, P. O. : Kuwaritol
Dist : Jorhat (Assam), Pin- 785 616	P. O. & Dist : Kokrajhar (Assam), Pin- 783 370	Dist : Nagaon (Assam), Pin 782 136
99543 44673 (M)	84718 78446 (M)/ 91014 05152	98648 86600 (M)/ 93659 16931 (M)
Email ID : borarajen67@gmail.com	Email ID : bishnubasumatary@gmail.com	Email ID : karunamahanta1@gmail.com

Ref. No. :.....

Date : ২৪/০৬/২০২০

প্রতি

মাননীয় এম. কে. যাদৱ,
আই.এফ.এছ.
অতিৰিক্ত পি.চি.চি.এফ. (ডব্লিউ.এল.) আৰু চি.ডব্লিউ.এল. ডব্লিউ
এজনীয়া অনুসন্ধান কমিটি, অসম চৰকাৰ
আৱৰ্ত্ত ভৱন, তিনিচুকীয়া, কোঠা নং ৮, পিন ঃ ৭৮৬ ১২৬
Email-ID : onemancommitteemky@gmail.com

মহোদয়,

নমস্কাৰ গ্ৰহণ কৰিব। আপোনাৰ চিঠিৰ নং OMEC/MKY/BGN-5/2020L01/2/ dated 15.06.2020-ৰ মৰ্মে আপোনাক সন্মান সহকাৰে জনাব খোজো যে, তিনিচুকীয়া জিলাৰ বাঘজান অঞ্চলত তেলৰ কুঁৱা বিস্ফোৰণ হৈ সেই বাঘজান অঞ্চলৰ যিসমূহ ক্ষুদ্র চাহ বাগিচা ধ্বংস হ'ল সেই ক্ষুদ্র চাহ খেতিয়কসকলক উপযুক্ত ক্ষতিপূৰণ দিবলৈ আমি সস্থাৰ তৰফৰ পৰা দাবী জনাইছো। যিহেতু সুৰক্ষাবাহিনীয়ে গোটেই বিস্তৃত্ব এলেকা ঘেৰাও কৰি আৰু তাত সাধাৰণ মানুহৰ প্ৰৱেশ নিষিদ্ধ কৰি ৰাখিছে। গতিকে আমি সেই অঞ্চলসমূহ চজমিন তদন্ত কৰিব পৰা নাই। আমাৰ ক্ষুদ্র চাহ খেতিয়কসকলো বৰ্তমানে আশ্রয় শিবিৰত আছে।

চাহ গছৰ সম্পৰ্কত মহোদয়ৰ জ্ঞাতাৰ্থে কেইটামান কথা তলত উল্লেখ কৰিলো—

১। এজোপা চাহ গছৰ উৎপাদন ক্ষমতা ১০০ (এশ) বছৰতকৈ অধিক।
২। এই অঞ্চলৰ এজোপা চাহগছৰ পৰা বছৰি ২ (দুই) কিল'গ্রাম কেঁচা চাহপাত উৎপাদন হয়।
৩। প্রতিবিঘা মাটিত ২,৫০০ (দুহেজাৰ পাঁচশ) জোপা চাহগছ ৰোপণ কৰা হৈছে।
৪। প্রতি কেজি কেঁচা চাহপাতৰ বৰ্তমানৰ মূল্য ৩০.০০ টকাৰ পৰা ৩৫.০০ টকা।

মহোদয়, এই অঞ্চলৰ সুস্থ পৰিৱেশ আৰু নিষেধ আজ্ঞা বাতিল নকৰালৈকে চমজমিন তদন্ত কৰিব পৰা নাযায়। গতিকে মহোদয়ে তিনিচুকীয়া জিলাৰ মাননীয় উপায়ুক্ত মহোদয়ৰ জৰিয়তে চমজমিন তদন্ত কৰাই আমি ওপৰত উল্লেখ কৰা হিচাপ অনুযায়ী প্রতি জোপা চাহগছৰ উপযুক্ত ক্ষতিপূৰণ দিবৰ বাবে মহোদয় ওচৰত বিনম্রভাৱে অনুৰোধ জনালো।

আশা কৰোঁ, মহোদয়ে বিষয়টো গুৰুত্ব সহকাৰে গ্রহণ কৰি ক্ষুদ্র চাহ খেতিয়ক সকলক সহায় কৰিবৰ বাবে অনুৰোধ জনালো। ইতি।

শ্রদ্ধাৰে—

শ্রীৰাজেন বৰা
সভাপতি

(কৰুণা মহন্ত)
সাধাৰণ সম্পাদক

সদৌ অসম ক্ষুদ্র চাহ খেতিয়ক সস্থা।

PART 9

REPORTS SUBMITTED BY THE DFOs

GOVT. OF ASSAM
ENVIRONMENT & FOREST DEPARTMENT
OFFICE OF THE DIVISIONAL FOREST OFFICER: DIBRUGARH DIVISION: DIBRUGARH
P.O:- C.R. Building, Dist:- Dibrugarh-786003 (Assam)
E-mail dfo.t.dibrugarh@gmail.com & dfo-t-dibrugarh@gov.in

Letter No. B/GC/87/OIL-Baghjan/2020/ 1732-735 **Dt. 06/08/2020**

From: Shri Pradipta Baruah, AFS
Divisional Forest Officer,
Dibrugarh Division, Dibrugarh

To,

Sri M.K. Yadava, IFS,
Addl. Principal Chief Conservator of Forests, Wildlife &
Chief Wild Life Warden and
One Man Enquiry Committee.

Sub:- Regarding Survey / Assessment of Biodiversity in Motapung Maguri Beel area aftermath the eruption & subsequent hurnout of Baghjan 5 Oil well.

Ref:- Your Letter No. OMEC/MKY/BGN-5/2020/L01/24, dtd. 15-06-2020 and Range Forest Officer, Tinsukia Range Letter No. TK/29/2020/209, dtd. 29-05-2020 and this office Letter No. B/GC/87/OIL-Baghjan/2020/3065-066, dtd. 12-06-2020, B/GC/87/OIL-Baghjan/2020/3067-068, dtd. 12-06-2020 & B/GC/87/OIL- Baghjan/2020/3157-158, dtd. 18-06-2020.

Sir,

In continuation of this office letter nos. cited above, I have the honour to inform you that as per your instruction, I have written and requested to the different individuals and organization to conduct impact assessment on Bio-diversity water contamination (Chemical analysis toxicology test, etc.) on water bodies i.e. to (1) Dr. Debashree Gogoi, Asst. prof., Department of Commerce, Digboi College, Tinsukia (2) Dr. Rajib Rudra Tariang, Head of the Department of Zoology, Digboi College, Tinsukia, (3) Dr. Ranjita Bania, Fisheries Biologis & Head Aquaculture, Wetland and Livelihood Division, JEEVA SURAKSHA, Assam and (4) Dr. Abdul Wakid, Project Scientist, Wildlife Institute of India, Dehradun, Uttarakhand, India.

In this connection, Survey / Assessment report received from Dr. Debashree Gogoi, Asst. prof., Department of Commerce, Digboi College, Tinsukia, Dr. Ranjita Bania, Fisheries Biologis & Head Aquaculture, Wetland and Livelihood Division, JEEVA SURAKSHA, Assam and Dr. Abdul Wakid, Project Scientist, Wildlife Institute of India, Dehradun, Uttarakhand, India are enclosed herewith. Some dead fish samples along with water samples were sent to the Dean, College of Fishery Sciences, Assam Agriculture University, Raha and the Director of Forensic Science, Kahilipara, Guwahati respectively for examine the toxicity and causes of death. Survey / Assessment report of Dr. Rajib Rudra Tariang, Head of the Department of Zoology, Digboi College, Tinsukia and report from Forensic Science, Kahilipara and Fishery College, Raha not yet received. The all reports shall be forwarded to your honour on receipt of the same.

This is for favour of your kind information and necessary action.

Enclo:- As stated above.

Yours faithfully,

Divisional Forest Officer,
Dibrugarh Division.

Contd....Pg/2

Copy to:-

1) The Principal Chief Conservator of Forests, Wild Life and Chief Wild Life Warden, Assam, Panjabari, Guwahati -37 for favour of his kind information.

2) The Addl. Principal Chief Conservator of Forests (T), Upper Assam Zone, Kacharighat, Guwahati -1 for favour of his kind information.

3) The Conservator of Forests, Eastern Assam Circle, Jorhat for favour of his kind information.

Divisional Forest Officer,
Dibrugarh Division.

GOVERNMENT OF ASSAM
OFFICE OF THE DIVISIONAL FOREST OFFICER::: TINSUKIA WILDLIFE DIVISION
TINSUKIA BORGURI:: 786126

Letter No. B-TWL/G- 66/2020/911 **Date: 04/07/2020**

To

M.K. Yadava, IFS,
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

Subject : Comment sought on replies furnished by M/s.OIL to the One Man Enquiry Committee.

Ref : Your letter No. OMEC/MKY/BGN-5/2020/L01/28-34 Dated: 26/06/2020.

Sir,

With reference to subject cited above undersigned wish to submit that for demarcation of National Park, Wild Life Sanctuary and Eco Sensitive Zone of Dibru Saikhowa National Park, Tinsukia following communication took place-

1. Vide letter no. A-TWL/G-66/2010/367-368 dated.03/06/2010 the DFO Tinsukia Wildlife, Tinsukia communicated to CF Wildlife, Office of the PCCF (Wildlife) that the map and relevant document furnished by OIL showing boundary of protected area in Tinsukia Wildlife Division were erroneous. It was also communicated that on western side and southern fringe of Dibru Saikhowa National Park, some part of protected areas were included in proposed gas field development areas in Tinsukia- Dhola area(2).

2. The DFO also provided the list of proposed installations located within 10 Km of protected areas under Tinsukia Wildlife Division.

3. The DFO Tinsukia Wildlife Division, Tinsukia vide letter no. B-TWL/G-66/2011/1330 dated 02/11/2011 also returned the map to Resident Chief Executive of OIL after authenticating the area of Dibru Saikhowa National Park and Bherjan-Borajan-Podumoni Wildlife Sanctuary. This authenticated map could not found in office record of this division. It is humble submission of undersigned to ask Oil India to furnish the authenticated map.

It is also pertinent to mention that in Annexure –III of the reply submitted by OIL to One Man Enquiry Committee, it is stated that no National Park, Wildlife Sanctuary, Eco Sensitive Zone area are located within 10 Km of the proposed drilling site. The statement seems to be related with proposed drilling sites at N. Hapjan-Tinsukia-Dhola area and not within the Baghjan area as furnished in Annexure –I as nowhere in the Annexure III Baghjan area is mentioned.

Yours faithfully

Enclosed: As stated above.

Divisional Forest Officer
Tinsukia Wildlife Division
Tinsukia.

GOVERNMENT OF ASSAM
OFFICE OF THE DIVISIONAL FOREST OFFICER::: TINSUKIA WILDLIFE DIVISION
TINSUKIA BORGURI:: 786126

Email: dfo.tskwl@gmail.com

Letter No. B-TWL/G-66/2020/784 **Date: 19/06/2020**

To

M.K. Yadava, IFS,
Addl. PCCF (WL) & CWLW and
One Man Enquiry Committee.

Subject : Blow out at Baghjan Oil Field.

Ref : Your letter No. OMEC/MKY/BGN-5/2020/L01/23 Dated: 15/06/2020.

Sir,

With reference to the subject cited above undersigned wish to submit that on 29th may 2020 one river dolphin was found dead in the Maguri Bheel which is part of ESZ of DSBR (attached). Biological samples of it have been sent for scientific analyses in C.V.S.C. Khanapara, NERDDL Khanapara, forensic lab Kahilipara, Guwahati. The results of the lab test are still awaited.

Expert team from WII Dehradun has been deployed in the field for sample collection with staffs of Tinsukia Wildlife Division. 30 soil samples, 30 water samples, 30 samples of water hyacinth, 11 species of fish, 12 species of plants, one species of snake has been collected so far. Sample collection is still going on till the incident stops and further as per the need. Samples have been sent for analysis to Sriram Institute of Industrial Research, Delhi. Director WII Dehradun has also been communicated to deploy a team to study the impact of oil spill in DSNP.

An expert committee with domain experts is also being constituted by office of PCCF & HoFF. The committee has started assessing the damage caused by the gas leakage (Attached). The expert members are collecting water, biological, soil samples for scientific calibrations. The expert committee has not submitted its final reports.

It is also pertinent to mention that no records/ study report/ research work prior to the occurrence of Blow out is available in this office. All the researcher who are permitted by concerned authority to do research inside Dibru Saikhowa National Park submit their reports/findings to concern authority only as per the terms and condition in permission letter.

The inventory of the wild life in DSNP as sought is attached herewith for your ready reference.

This is for your kind information.

Yours faithfully

Enclosed: As stated above.

Divisional Forest Officer
Tinsukia Wildlife Division
Tinsukia

অসম চৰকাৰ

বন সংমণ্ডল প্ৰাধিকাৰীৰ কাৰ্য্যালয়

তিনিচুকীয়া বন্যপ্ৰাণী সংমণ্ডল

Letter No. B- TWL/G-66/2011/ 1330

Date: 02 /11/2011

To

The Resident Chief Executive
Oil India Ltd.
duliajan

Subject: Demarcation of National Park, Wildlife Sanctuary and Ecologically sensitive areas.

Ref: Your letter No PDNG 27/14 (EC) -1089/11 dated. 19/09/2011

Sir,

With reference to the above, I am returning herewith the map submitted by you duly authenticating the boundary of Dibru Saikhowa National Park and Bherjan-Borajan-Padumoni Wildlife Sanctuary and Eco-sensitive zone for your necessary action.

Yours faithfully

Divisional Forest Officer
Tinsukia Wildlife Division
Tinsukia

GOVERNMENT OF ASSAM
ENVIRONMENT AND FOREST DEPARTMENT
OFFICE OF THE DIVISIONAL FOREST OFFICER
TINSUKIA WILDLIFE DIVISION: TINSUKIA

A.TWL/G-66/2010/367-368 DATE. 03/06/2010

To,

The Conservator of Forests, Wildlife
O/o the Principal Chief Conservator of Forests
Wildlife, Assam

Subject: Request for certificate as per clause 3 of Terms of Reference of MoEF (GoI).
Ref. No: WL/FG.35/Nodal Proposal/Oil dt 19/5/2010.

Sir,

With reference to the subject cited above, I have the honour to inform you that it transpires from scrutiny of maps and relevant documents furnished by the Oil India Limited Authority that boundaries of Protected Areas in Tinsukia Wildlife Division are represented erroneously as the area of Dibru-Saikhowa National Park is shown as 387 Km^2 instead of actual 340 Km^2 while that of Bherjan-Borajan-Padumoni Wildlife Sanctuary are shown as 1.02 Km^2 instead of actual 1.06 Km^2 in Bherjan sector, 4.76 Km^2 instead of actual 4.39 Km^2 in Borajan sector 1.83 Km^2 instead of actual 1.76 Km^2 in Padumoni sector. Significantly, on the western side and southern fringe of Dibru-Saikhowa National Park some parts of the Protected Area are included in proposed Gas Field Development project in Tinsukia Dhola area (2) in contravention of provisions of Wildlife Protection Act, 1972 as well as Forest Conservation Act, 1980.

Further analysis of records indicates that the following proposed installations are located within ten Km from the boundary of Dibru-Saikhowa National Park.

1. Gas transmission pipeline originating from Baghjan FGS (2/III/b)
2. Gas transmission pipeline originating from Barekuri (NA)
3. GCS Baghjan (2/I/d)
4. FGS Baghjan (2/II/c)
5. GCS Barekuri (2/I/c)

Similarly, the following proposed installations are located within ten Km from the boundary of the Bherjan-Borajan-Padumoni Wildlife Sanctuary.

1. Gas transmission pipeline originating from Baghjan FGS (2/III/b)
2. Gas transmission pipeline originating from Barekuri (NA)

3. Gas transmission pipeline originating from Chabua FGS (2/III/a)
4. GCS Baghjan (2/I/d)
5. FGS Baghjan (2/II/c)
6. GCS Barekuri (2/I/c)
7. FGS South Chandmari (2/II/d)
8. GCS Makum (2/I/e)
9. FGS Hapjan (1/II/d)
10. Kathalguri OCS (NA)
11. CGGS& OTP (NA)
12. OCS-3 (NA)
13. FGS-OCS-4 (NA)
14. CGGS & OTP Madhuban (1/IV)

The details regarding alignment of Extension/augmentation of existing Gas Flow Pipelines (1/III/v, 2/III/f, 3/II, 4/I/c, 5/2/b) in proposed project areas are not available and no comments are furnished as of now. Most interestingly, a cluster of installations situated near Duliajan, headquarters of Oil India Limited is located within ten Km aerial distance of Borajan sector of the Wildlife Sanctuary. A copy of the map and document pertinent to proposed projects is enclosed for your ready reference.

This is for favour of your information and needful.

Enclosed: As stated above

Yours faithfully

Divisional Forest Officer
Tinsukia Wildlife Division
Tinsukia

Copy to the Conservator of Forests, Eastern Assam Circle, Jorhat for favour of information.

Divisional Forest Officer
Tinsukia Wildlife Division
Tinsukia

NO. B-TWL/G-66/01/2010/ 1459 DATE. 03/06/2010

Copy to the Resident Chief Executive for GMP (GM) Oil India Limited, Duliajan for information and necessary action.

Divisional Forest Officer
Tinsukia Wildlife Division
Tinsukia

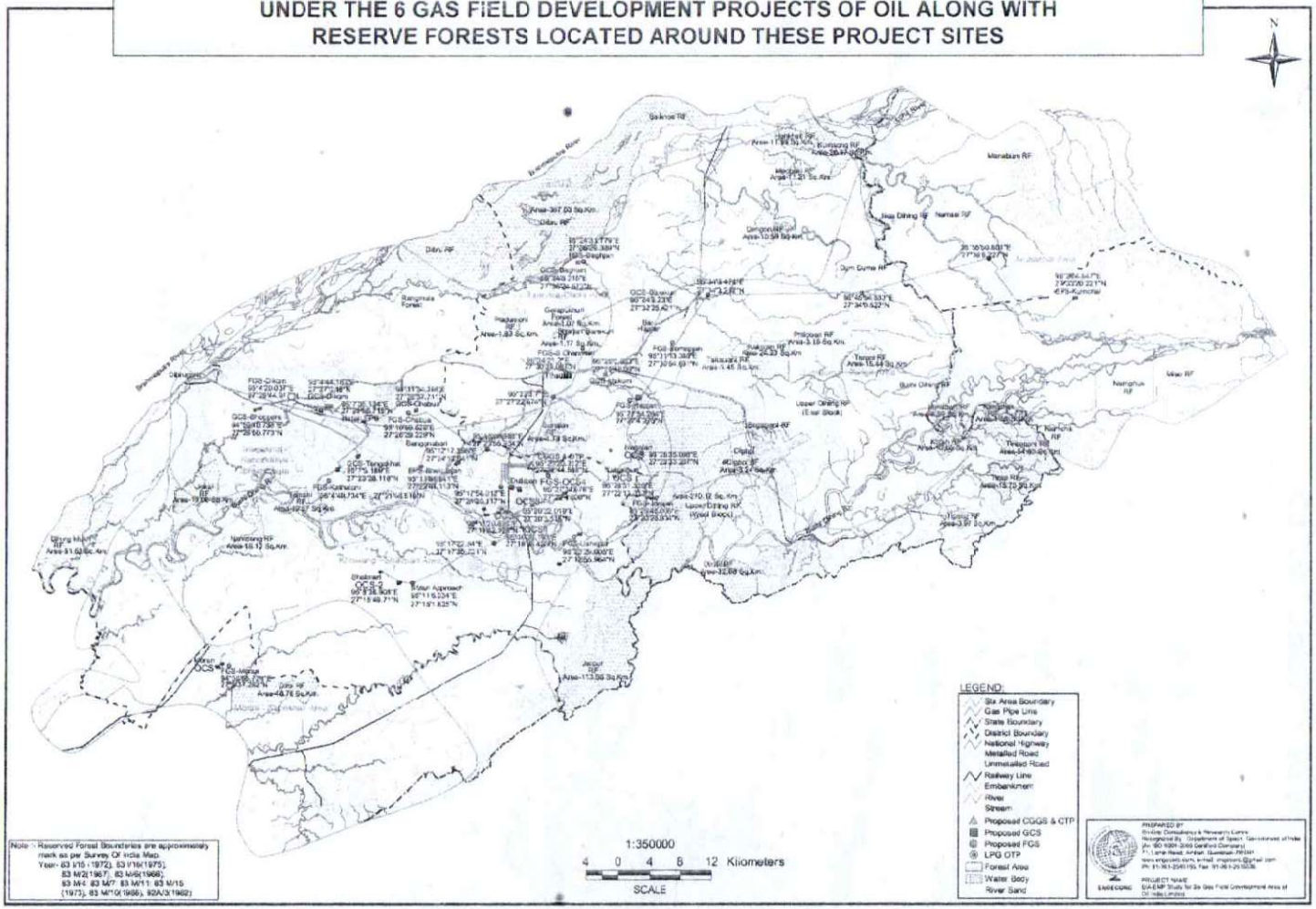
Proposed Gas Field Development Projects of Oil India Limited :

Sl. No.	Name of Project	Production Set-Ups to be installed under the project	Area (as per OIL's Classification)
1	Gas Field Development in Tengakhat-Naharkatia-Jorajan Area	I) Gas Compressor station (GCS) at : a) Tengakhat b) Bhogpara II) Field Gathering station (FGS) at : a) Jorajan b) OCS-4 c) Kathaloni d) Hapjan e) Ushapur III) Gas Transmission Pipelines : a) CGGS&OTP-Madhuban (W/50) to LPG Offtake : 3 nos. b) CGGS&OTP-Madhuban (W/50) to Location NKF : 2 Nos. c) Location NKF to Shalmari Approach via GCS-2, OCS-8 d) OCS-3 to W/50 OT e) Tengakhat OCS to Tengakhat Approach : 2 Lines f) Hatiali Scrapper Trap to Wilton g) Hatiali Scrapper Trap to W/263 h) Hatiali Scrapper Trap to Dikom OCS i) Tengakhat Approach to Kathaloni OCS j) Wilton to Tengakhat Approach k) Bengenabari to Bhekulajan EPS l) OCS-2 to GCS-7 m) GCS-7 to OCS-6 n) LPG OT to OCS/GCS-5 o) W/50 OT to OCS-4 p) W/319 to GCS-1 q) GCS-1 to OCS-1 r) Hapjan OCS to Makum OCS s) Nagajan OCS to Hapjan OCS t) Kathalguri OCS to Nagajan OCS/GCS u) Jorajan Approach to Jorajan OCS/GCS v)Extension/Augmentation of Existing Gas Flow Pipeline Network IV) Central Gas Gathering Station and Offtake Point (CGGS & OTP) at Madhuban (NHK W/50).	Tengakhat-Naharkatia-Jorajan Area

2.	Gas Field Development in Tinsukia-Dhola Area	I) Gas Compressor station (GCS) at : a) Dikom b) Chabua c) Barekuri d) Baghjan e) Makum II) Field Gathering station (FGS) at : a) Dikom b) Chabua, c) Baghjan d) South Chandmari III) Gas Transmission Pipelines : a) Chabua to CGGS&OTP-Madhuban (W/50) b) Baghjan to CGGS&OTP-Madhuban (W/50) c) W/263 to Hatiali EPS : 2 nos. d) Makum OCS to TF e) Hatiali EPS to Hatiali Scrapper Trap f) Extension/Augmentation of Existing Gas Flow Pipeline Network	Tinsukia-Dhola Area
3.	Gas Field Development in Moran-Sapekhati Area	I) Field Gathering station (FGS) at : Moran II)Gas Transmission Pipelines : Extension/Augmentation of Existing Gas Flow Pipeline Network	Moran-Sapekhati Area
4.	Gas Field Development in Khowang-Shalmari Area :	I) Construction of Gas Transmission Pipelines : a) Shalmari Approach to Shalmari OCS1/GCS b) Shalmari OCS-1/GCS to Shalmari OCS-2 c) Extension/Augmentation of Existing Gas Flow Pipeline Network	Khowang-Shalmari Area
5.	Gas Field Development in Dumduma-Pengri Area	I) Field Gathering station (FGS) at: a) Borhapjan II) Gas Transmission Pipelines : a) Kushijan-2 Approach to DDGG b) Extension/Augmentation of Existing Gas Flow Pipeline Network	Dumduma-Pengri Area

6.	Gas Field Development in Arunachal Area	I) Gas Transmission Pipeline : a) Kumchai-Dumduma-Hapjan Gas Pipeline b) Extension/Augmentation of Existing Gas Flow Pipeline Network	Arunachal Area

MAP SHOWING LOCATION OF VARIOUS INSTALLATIONS AND PIPELINES TO BE CONSTRUCTED UNDER THE 6 GAS FIELD DEVELOPMENT PROJECTS OF OIL ALONG WITH RESERVE FORESTS LOCATED AROUND THESE PROJECT SITES



PART 10

REPORTS OF OIL INDIA LIMITED

OIL INDIA BAGHJAN BLOWOUT DAILY REPORT	
Report Time & Date	18:00 hrs. on 25-08-2020
Well No.	BGN#05
Location	Baghjan Gaon, Dighaltarang, Tinsukia District, Assam
Date & Time of Blowout	27.05.2020 at 10:30hrs.
Date & Time of Fire	The Well caught Fire on 09-06-2020 at 13:14 hrs.

1. **Well Control Operation**: Cement dumping was carried out as planned today to 'pack off' both the annulus by pumping cement slurry through both the valves to 9.5/8" X 13.3/8" annulus. After allowing minimum 24 hours of setting time, 11"-13.5/8" annulus will be inspected tomorrow to ascertain requirement of further cement dumping to this annulus. All safety precautions are in place and the wellhead, BOP stack, choke manifold & ground x-mas tree are being continuously sprayed with water for cooling purpose. Arrangements for diverting flow of gas from the blowout well to nearby production facility are in various stages of completion. Connection of Choke manifold and the 5 point manifold have been completed. Anchoring of the 4" NB flow line laid from the Choke manifold to the well plinth has also been completed.
2. **Relief and Rehabilitation:** A total of 2756 number of families have been surveyed for assessment of damage for compensation till 24.08.2020 in Doomdooma and Tinsukia Circle.
3. **Law and Order/Bandhs/Blockades etc.:** There were two blockades staged by local protesters on the way to Baghjan EPS from Doomdooma Tinal for the issues mainly related to compensation. Both the blockades were withdrawn with the intervention of District Administration and Police Authority in presence of OIL's representative. Oil& Gas Production still continues to be affected due to forceful closure of few Oil & Gas wells connected to Baghjan EPS. Drilling and workover operation also continue to be affected at few of the locations due to forceful closure of operation.
4. **Impact on Oil/Gas Production due to Protests by Locals:** Impact on Crude Oil & Natural Gas production for the day shall be assessed and will be reported tomorrow.
5. **Environmental Impact Assessment**: Data collection at site have been completed for Environmental Impact Assessment(EIA) study by various agencies, viz. M/s TERI, M/s ERM, M/s CSIR-NEIST, IIT-Guwahati. Analysis/study on collected data is in progress by respective agencies. OIL's in-house monitoring of Air quality/Noise level/Gas presence is being continued. Bio remediation activities at affected areas are in progress.

****

ARIHANT ANALYTICAL LABORATORY PVT. LTD.

AN ISO 9001:2015, ISO 14001:2004, OHSAS 18001:2007 CERTIFIED LABORATORY

272, Phase-IV, Sec-57, HSIIDC, Kundli, Sonepat-131028 (Haryana)
Ph. : 7082301442, 9250014551 Email : aalkundli@gmail.com
Website : www.aalkundli.com

TEST CERTIFICATE

AMBIENT AIR QUALITY MONITORING REPORT

Name of Organization:	**M/s Oil India Limited**	**Report No.**	AAL /OIL/ASM-20200604001
Customer Address:	Duliajan, Dibrugarh, Assam - 786602		
Customer Reference:	WO No.8122640 of Contract No.6113508	**Date of Receiving:**	04/06/2020
Sample Description:	**Ambient Air Quality Monitoring**	**Date of Starting:**	04/06/2020
Date of Sampling:	01/06/2020	**Date of Completion:**	06/06/2020
Sampling Location:	**Baghjan Relief Camp (Baghjan ME School)**	**Date of Reporting:**	06/06/2020
GPS Code:	N27°60.524' E 95°39.217'	**Weather Condition:**	Sunny
Sample Qty & Packing:	Filter Paper, Charcoal Tube, Bladder, Plastic Bottle	**Sampling Done By:**	AAL

S. No.	Test Parameter	Unit	Results	Limits NAAQS Monitoring & Analysis Guidelines Volume-I	Test Methods
1	Particulate Matter, PM_{10}	$\mu g/m^3$	59.2	100	IS-5182(P-23)-2006
2	Particulate Matter, $PM_{2.5}$	$\mu g/m^3$	35.6	60	CPCB Guideline/Gravimetric/ (AAL/SOP/ENV/002)
3	Sulphur Dioxide (as SO_2)	$\mu g/m^3$	14.6	80	IS-5182 (P-2)-2001
4	Oxide of Nitrogen (as NO_2)	$\mu g/m^3$	37.5	80	IS-5182(P-6)-2006
5	Carbon Monoxide (as CO)	mg/m^3	1.8	2 (8hr)/4 (1hr)	IS-5182(P-10)-1999 Reaff. 2003
6	Ozone (asO_3)	$\mu g/m^3$	BDL (DL=20.0)	100(8hr)/180(1hr)	IS-5182(P-9)-1999/ Photometric
7	Ammonia (asNH_3)	$\mu g/m^3$	BDL (DL=20.0	400	Indi-Phenol Blue Method
8	Lead (as Pb)	$\mu g/m^3$	BDL (DL=0.1)	1	IS-5182(P-22)-2004
9	Nickel (as Ni)	ng/m^3	BDL (DL=1.0)	20	IS-5182(P-22)-2004
10	Arsenic (as As)	ng/m^3	BDL (DL=1.0)	6	IS-5182(P-22)-2004
11	Benzene (as C_6H_6)	ng/m^3	2.4	5	NIOSH 6015-2005
12	Benzo a-pyrene (BaP)	ng/m^3	BDL (DL=0.1)	1	CPCB/GC Method
13	Mercury (as Hg)	$\mu g/m^3$	BDL (DL=0.001)	NS	By Air APHA
14	Methane Hydrocarbon	ppm	7.6	NS	IS-5182 (P-17)-1979 Reaff. 2003
15	Non Methane Hydrocarbon	ppm	3.5	NS	IS-5182 (P-17)-1979 Reaff. 2003
16	Total Hydrocarbon	ppm	14.2	NS	IS-5182 (P-17)-1979 Reaff. 2003
17	Volatile Organic Compound	$\mu g/m^3$	87.5	NS	IS-5182 (P-17)-1979 Reaff. 2003

NS=Not Specified, BDL=Below Detection Limit & DL=Detection Limit

End of Report

Analyzed By
Mr. Amlesh Kumar , Sr.Analyst
Arihant Analytical Laboratory Pvt. Ltd.
Kundli, Sonepat, Haryana

Approved By
Mr. Ranjeet Kumar Bardoloi
Suptdg. Research Scientist, R & D Dept.
Oil India Ltd. , Dibrugarh , Assam

Verified By
Dr. D R Sharma, General Manger (Q&T)
Arihant Analytical Laboratory Pvt. Ltd.
Kundli, Sonepat, Haryana
Authorised Signatory

Note: 1. The Result Indicated above refer to the tested sample and listed test parameters only, endorsement of products is neither inferred not implied.
2. Total liability of our laboratory is limited to the invoice amount.
3. This report shall not be reproduced wholly or in part without written consent of the laboratory.
4. This report shall not be used in any advertising media or as evidence in the court of law without prior written consent of the laboratory.
5. The non-perishable sample received shall be destroyed after one month and perishable sample shall be destroyed after one week from the date of issue of report unless specified.

GREEN TECH ENVIRONMENTAL ENGINEER & CONSULTANTS
House No-11, Champaknagar, Narayan Path ... www.greentechgeec...
Telefax: 0361 2300278 Mobile: 94350466... info@greentechgeec.in

TEST REPORT

Test Report No:	GEEC/AAQM/2016/6/3	Date of Reporting:	06/06/2016	
Customer Name:	Oil India Limited	Lab. ID No.:	GEEC/AA/2016/06/03	
Customer Address	Rig S-4, Loc : HYH, Hapjan	Date of Sampling:	02/06/2016	
Sampling Location:	Near Security Gate	Duration:	24 hours	
Sampling Condition:	In GF/A, PTFE Filter Paper & Plastic Bottle	Ambient Temperature:	Max.	Min.
Wind Direction	Calm and Clear		36.6°C	24.5°C
Equipments Details	Ecotech, RDS AAS Sampler 217 BL & ADS PM Sampler	Test Start Date:	04/06/2016	
Monitored By:	Mr. S. Rajkhowa & Mr. D. Deka	Test End Date:	06/06/2016	

AMBIENT AIR QUALITY

Sampling and Analysis carried out as per GEEC/SOP/01

Sl. No.	Parameters	Unit	Results	Limits	Test Method
1	Particulate Matter (PM_{10})	µg/m³	48	100	IS 5182(23)
2	Particulate Matter ($PM_{2.5}$)	µg/m³	31	60	CPCB Guidelines
3	Sulphur Dioxide (SO_2)	µg/m³	14	80	IS 5182(2)
4	Nitrogen Dioxide (NO_2)	µg/m³	12	80	IS 5182(VI)
5	Lead (Pb)	µg/m³	0.1	1	IS 5182(22)

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

Authorised by: Lab -in-Charge

B Lahon

(Dr. Belinda Lahon)

The parameters tested on the specific date are found to be within the NATIONAL AMBIENT AIR QUALITY STANDARDS, CPCB NOTIFICATION DATED 18TH NOVEMBER, 2009

The results relate only to the item tested

The test report shall not be reproduced except in full, without written approval of the laboratory

The report cannot be used as an evidence in a court of law without prior written approval of the laboratory

PART 11

ACTIVITY PLANS AND POLICIES OF OIL

OIL SPILL CONTINGENCY PLAN (OSCP)

For

ONSHORE OPERATIONS

ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्यम)
Oil India Limited
(A Government of India Enterprise)

Released on 01.06.2013

Executive Summary

Due to the very nature of activities associated with storage, handling, transportation and production of crude oil, the possibility of Oil spill cannot be ruled out. To minimize the consequence & loss, there is every need to have Oil Spill Contingency plan (OCSP). This document provides the strategy, action and the information needed for an organization to respond to any oil spill originating due to its activities. At the same time, it can also help in giving support to any neighbouring organization facing the spill response problem.

The requirement of making an Oil Spill Contingency Plan (OSCP) is a mandatory requirement as per the Indian Government commitments to the United Nation's conventions on Oil Spills and its response, enforced by its marine arm, viz. International Maritime Organisation (IMO). The same has also been emphasized as per Indian Coast Guard's National Oil Spill Disaster Contingency Plan and various notifications to individual companies by Ministry of Environment and Forests (MoEF) at the time of commencement of operations in the oil fields.

The present plan is made for an oil spill which may occur, onshore due to OIL's operations in its Field Head Quaters, Duliajan.

For the Emergency Control Team (ECT)/On Site Co ordinator (OSC) to be ready beforehand, the plan quantifies various risk scenarios, and has suggested appropriate oil spill control/response measures and the manpower needed to run the same.

To implement the proposed contingency plan, and to meet the statutory regulations as stipulated by regulatory authorities, the roles and responsibilities of ECT and training requirement for preparedness and executing the OSCP has been mentioned in this document.

(A. K. Acharya)
General Manager (HSE)

Date: 20.06.2013

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II	Oil spill report form	
III	Emergency Control Team	
IV	Dos and Donts	

ABBRIVIATIONS & ACCRONYMS

DCR	Disaster Control Room
ECT	Emergency Control Team
NOS DCP	National Oil Spill Disaster Contingency Plan.
OISD	Oil Industries Safety Directorate
OIL	Oil India Limited
OSC	On site Coordinator
OSCP	Oil Spill Contingency Plan
OSD	Oil Spill Dispersant
OSR	Oil Spill Response

1.0 SCOPE

OIL is committed to integrate into its plans and operations, ways to identify oil spill risks, prevent and contain oil spills to Implement appropriate contingency plan for spill response and clean-up strategies. The present On shore Oil Spill Contingency plan is the first step in this direction.

This document gives the details of planning, preparedness and response for oil spill incident, that may arise from OIL's exploration & production/drilling activities in its onshore operational areas.

2.0 OBJECTIVE

- To establish response procedures for oil spills,
- To combat, contain, recover, clean up and dispose off the spilled oil,
- To provide a training and develop awareness amongst the employees,
- To provide plan & programme for practice drill based on scenarios,
- To meet statutory requirements.

3.0 INTERFACE WITH OTHER PLANS

This plan is developed in conjunction with the following documents:

• OIL HSE Policy and Plan, and

• National Oil Spill Disaster Contingency Plan (NOS-DCP) issued by the Coast Guard Headquarters.

• OISD – GDN 200 for Preparation of Oil Spill Response Contingency Plan

OIL's VISION

- **Oil India** is the fastest growing Energy Company with highest profitability.

- **Oil India** delights the customers with quality products and services at competitive prices.

- **Oil India** is a Learning Organization, nurturing initiatives, innovations and aspirations with best practices.

- **Oil India** is a team, committed to honesty, integrity, transparency and mutual trust creating employee pride.

- **Oil India** is fully committed to safety, health and environment.

- **Oil India** is a responsible corporate citizen deeply committed to socio-economic development in its areas of operations.

ऑयल इंडिया लिमिटेड
Oil India Limited

HEALTH, SAFETY AND ENVIRONMENT (HSE) POLICY

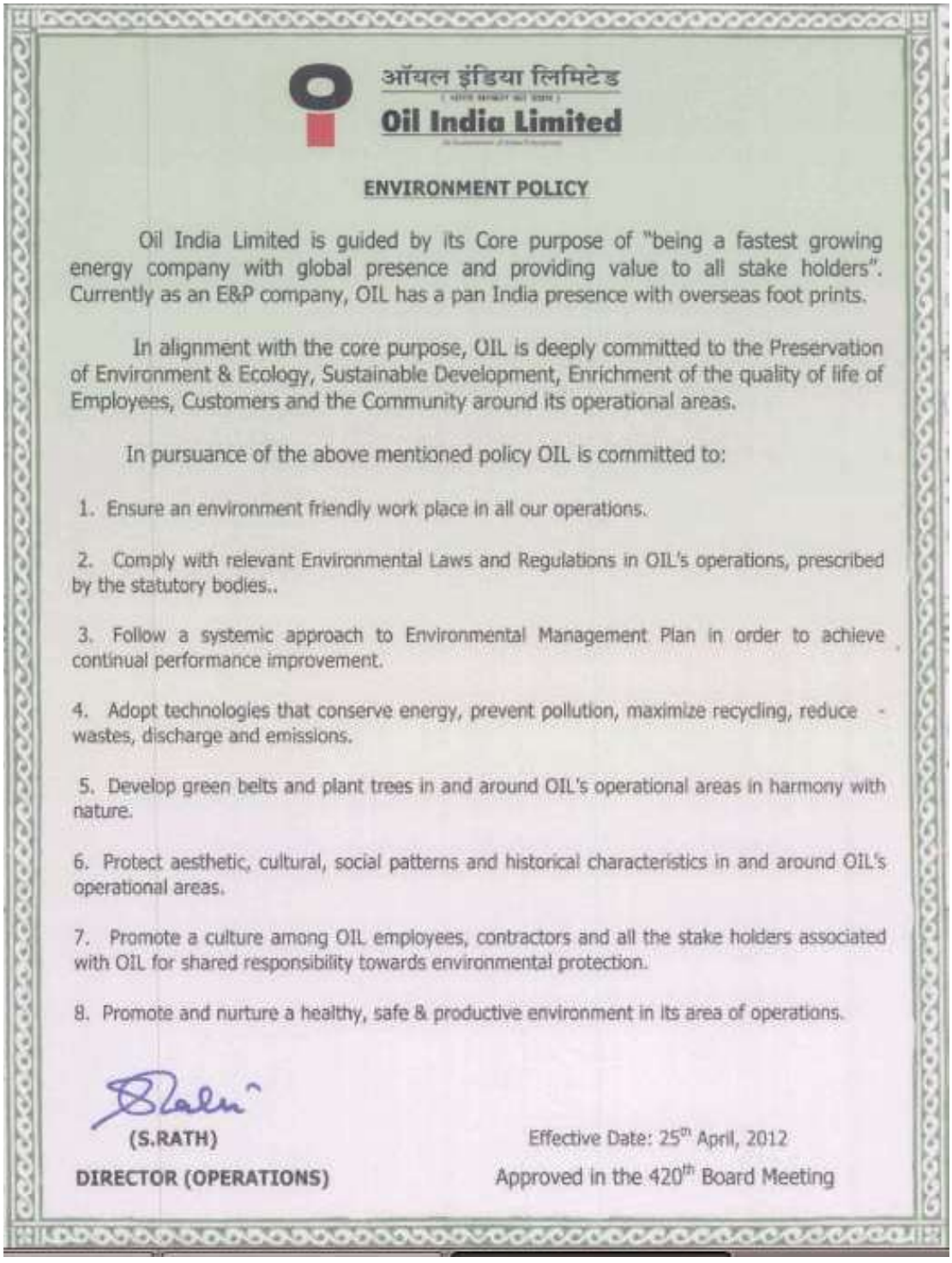
Oil India Limited is committed to be a vibrant, responsive, knowledge based competitive Exploration & Production Company with global presence, and a selective presence across hydrocarbon value chain in India & abroad with highest concern for preservation of Environment, sustainable development, safe work practices, better health care facilities and enrichment of quality of life of employees, customers and the community around our operational areas.

We at OIL INDIA LIMITED strongly believe that Safety, Health and Environment Management performances are integral part of our business and accordingly consider the same as a part of our corporate objective.

In pursuance of the above policy we shall –

- Ensure a safe & sound working environment at all our work places.
- Comply with all Rules & Regulations on Safety, Occupational Health and Environment Protection stipulated by statutes besides our own policies & manuals.
- Adopt and promote safe & eco-friendly technology & review the performance of the systems in line with the changing needs.
- Continuously work towards mitigation of adverse environmental impacts, if any of our operations on air, water & land.
- Prevent mishaps, minimize risk & hazards and remain trained, equipped and ready for effective & prompt response to emergencies including disasters & accidents.
- Promote resource conservation and recycle options.
- Prevent occupational diseases and accord due concern for the employees health as well as the community around our operational areas.
- Encourage external audit of our H, S & E standards so that stakeholders and public confidence is safe guarded.
- Encourage knowledge upgradation & promote Safety, Health and Environmental awareness amongst all the employees.
- Remain committed for continual improvement and achievement of highest Safety, Health & Environmental protection standards of the company leading towards sustainable development.
- Work towards preserving ecological balance & heritage in our operational areas.

(N. K. Agarwal)
Resident Chief Executive



ऑयल इंडिया लिमिटेड

Oil India Limited

ENVIRONMENT POLICY

Oil India Limited is guided by its Core purpose of "being a fastest growing energy company with global presence and providing value to all stake holders". Currently as an E&P company, OIL has a pan India presence with overseas foot prints.

In alignment with the core purpose, OIL is deeply committed to the Preservation of Environment & Ecology, Sustainable Development, Enrichment of the quality of life of Employees, Customers and the Community around its operational areas.

In pursuance of the above mentioned policy OIL is committed to:

1. Ensure an environment friendly work place in all our operations.

2. Comply with relevant Environmental Laws and Regulations in OIL's operations, prescribed by the statutory bodies..

3. Follow a systemic approach to Environmental Management Plan in order to achieve continual performance improvement.

4. Adopt technologies that conserve energy, prevent pollution, maximize recycling, reduce wastes, discharge and emissions.

5. Develop green belts and plant trees in and around OIL's operational areas in harmony with nature.

6. Protect aesthetic, cultural, social patterns and historical characteristics in and around OIL's operational areas.

7. Promote a culture among OIL employees, contractors and all the stake holders associated with OIL for shared responsibility towards environmental protection.

8. Promote and nurture a healthy, safe & productive environment in its area of operations.

(S.RATH)
DIRECTOR (OPERATIONS)

Effective Date: 25th April, 2012
Approved in the 420th Board Meeting

4.0 PERCEIVED OIL SPILL RISKS AND SPILL QUANTITIES

4.1 IDENTIFICATION OF ACTIVITIES AND RISKS

Main spill scenario only have been assessed, as smaller spills of tank over flow, joints and valves leak etc will result in lesser spill than the ones listed below.:

4.1.1 Well Blow - out Incidents:

An oil spill due to Well Blow out is possible during Drilling activities when wells are drilled to meet exploration, development or production requirement. Well Blow out is also possible during any subsequent "Well Intervention" of existing wells for Work - Over activities. In the event of an unfortunate well blow out, the situation will call for the immediate services of Well Control specialists. But, adherence to established drilling procedures which includes proper use of Blow out Preventors (BOPs) of rated pressures will adequately control the oil spill risk due to well blow outs.

4.1.2 Bursting of the mainline in the open field:

The pipeline carries highly inflammable crude oil & natural gas. Though utmost precautions are taken, sometimes the pipeline may burst. The burst may be due to corrosion, sabotage/miscreant activities, accidental hit by heavy equipment or due to operational reasons such as failure of safety devices etc.

In the event of burst, lot of oil come out and may flow around, affecting the normal life in the surrounding area. The likely hazards in the case of burst are:

i) The leaked oil may catch fire.

ii) The leaked oil may pollute the nearby water channels /canals.

4.1.3 Bursting of pipeline in the river Crossings/ Rail / road bridges / Aerial Crossings:

The bursting at these may be caused due to corrosion due to corrosion or by accidental hit by heavy equipment or by snapping of aerial crossings by accidental hit by heavy equipment or by snapping of aerial crossings pipe support strings. This may result in huge oil spillage polluting the water.

4.1.4 War and Civil commotion:

Due to bombing during the war or by terrorist or attempted pilferage , the pipeline may develop leak or burst. The oil spillage may be high amy result in the fire.

4.1.5 Hurricane Damage to Pipeline at rail/road bridge/aerial crossing

Due to high velocity of wind, the pipe supports may get snapped. this may result in breakage of pipeline leading to oil spillage. If it is a heavy rainfall, due to high turbulence of water, there may be no fire.

5.0 SPILL RESPONSE STRATEGY

Oil Spill Response flow of information is given at Appendix-3, as per the plan, the responsibilities during oil spill response is well defined.

In any oil spill response, mobilization of resources depends on a number of factors. One of the most critical ones is the time taken to activate this plan and mobilise equipment & resources to the site of the spill. The following is the spill response strategy for various oil spill perceived risk:

5.1 Initial Action : Necessary arrangement to be initialed to find out the exact location of leak. In the meantime, search party will process along the row and locate the burst site .

- Station in-charge, from both upstream and downstream of the leak shall proceed to detect the exact location .This ground party will have a mobile fitted jeep , hand wheel of block valves , box key etc.
- Locate the exact site and inform Disaster Control Room.
- Arrange for the mobilization of emergency equipments, men and materials and proceed to the site. establish radio link/communication between the sites and Disaster Control Room.

5.2 Isolation & Security : Isolate the line both in upstream & downs stream if any. Ensure the safety of the area by proving security guards, for bidding smoking and use of naked lights. Area to be cordoned off and safety sign boards to be posted.

Obtain permission from the land owners if necessary for use of their private land in raising earth bunds cutting cellar to contain the leak.

5.3 Retrieving oil spills : Retrieve the oil into drums/tanks in the case of large oil spills using pneumatic pump for transport the oil from spoiled area to the tanks.

5.4 Fire fighting : Form the crews assigning their duties at site , plan suitable method in extinguishing fire.

Put tailor pump or any other portable fire pump in service and use the foam making units so as to totally flood the area with dry chemical powder.

5.5 Repair : Work out the methods of leak repair in consultations with chief coordinator and operation coordinator giving accurate information on the extent of damage.

- Mobilization of men and materials required for the work leak repair as directed from Headquarters.
- Carry out leak repair works as demanded by the situation on arrival of men and materials.

5.6 Normalization : After the repair work, the line should be pressure tested and the area should be cleared.

5.7 In the event of a **hurricane**, communication may get completely disrupted. After stopping the pumping operations, the search party should approach from both upstream/ stations and isolate the line for stoppage of the leak. Arrangement should be made to temporarily support the pipe. For repair of the pipe at the rail/road crossings the help of the railways/PWD official should be taken

5.8 In case of **war or civil commotion**, The control measures for different locations will be as discussed earlier taking the law and order authorities into confidence.

5.9 Oil Spill in Water Body: The oil spillage should be stopped by isolating the valves on either side & adequate oil dispersed should be sprayed. Police district authorities should be informed and villagers along the route should be alerted / warned about the dangers and precautions to be taken. Bund should be made in the canal on either side of the spillage area to prevent the flow off oil with canal water & transfer oil to tanks/drums.

5.10 General control for all causes:

The general control measures like search party , communication, alerting police, revenue and other communication, alerting police , revenue and other outside agencies will be the same as discussed for the “Burst” in the open field case. The organization and responsibilities and the mobilization also be the same.

6.0 STRATEGY FOR OIL AND WASTE STORAGE AND DISPOSAL

The oily waste can be either collected from the affected area. During onshore waste collection, it will be mostly oil with mud sand, pebbles, small plants etc. and chocolate mousse. During spill in water body the waste collection would include oil, oily waste mixture, chocolate mousse, floating debris on sea soaked in oil, floating vegetation etc

The spilled oil shall be collected into drums/tanks in the case of large oil spills using pump for transport. Necessary oil tanker or bowser shall be kept nearby to the site and the collected oil shall be unloaded at the designated area in a safe & environmental friendly manner.

The hazardous waste is to be managed and handled as per MoEF, GoI Hazardous Wastes (Management and Handling) Amendment Rules, 2003.

7.0 RESOURCE MOBILISATION: EQUIPMENT SUPPLIES AND SERVICES

OIL SPILL EQUIPMENT

The following spill control equipment is in place:

- Sorbent booms to control oil spills in water bodies, if any.
- Petroleum sorbent rolls to control oil spill in large surface area.
- Petroleum sorbent pillars to absorb bulk oil spills in land/water.

8.1 Management:

Under the Field Head Quaters, Duliajan has a team of officials manning the Disaster control room. The duties allocated to each of them are outlined below.

These duties are in addition to the normal duties carried out by them.

8.2 ECT, THEIR AUTHORITIES AND RESPONSIBILITIES

The Resident Chief Executive (RCE) shall be fully empowered to take decisions and shall activate ECT to initiate oil spill response and declare **Emergency,** when the spill quantity exceeds 50 tonnes. The callout system for an oil spill emergency is identical to any other emergency.

RCE shall nominate an individual to take up the role of Oil Spill Coordinator. This individual shall be aware of the entire oil spill response activities and the area of OIL operations, location, operation and inventory of equipment, resources needed and shall have the required competence and training to undertake this response. A pool of 3-4 individuals shall be trained, so that at least one of them is available at any given time.

Oil Spill Coordinator will be in close contact with Leader, ECT at all times during spill response operations.

RCE shall also direct the ECT to take appropriate actions to respond to the oil spill. ECT will arrange mobilization of resources, like Emergency Response Team (ERT) as the situation demands.

8.3 EMERGENCY CONTROL TEAM (ECT)

The ECT will compromise of the following members:

A) General Manager (HSE)
B) Head – S&E
C) General Manager – Admin. & PR
D) General Manager – Finance
E) General Manager – Engineering
F) General Manager - Services
G) Fire Service Coordinator

H) Head – Field Communication

I) Head – Transport

J) Head Medical Services

K) On Site Coordinator

8.4 ROLES & RESPOSIBILITIES OF ECT MEMBERS

8.4.1GENERAL MANAGER (HSE)

• On receipt of spill information, assume overall charge of situation and leadership of ECT

• Proceed to Disaster Control Room (DCR)

• Evaluate the state of situation.

• Depending upon the spill size, arrange mobilisation of resources.

• Inform RCE and stake holders.

• Ensure regulatory requirement are taken care of.

• Nominate a media coordinator.

Immediate:

- Start personal log of events
- Establish the following information:
  . Time spill occurred
  . Position and shape of spill/slick
  . Visual appearance and apparent thickness of oil
  . Percentage covers of the various thickness of oil
  . Speed and direction of oil slick
  . Weather condition and sea state

- Investigate the source of leak / spillage
- Co-ordinate with field coordinator in drawing a strategy and dealing with the situation.
- Inform higher authorities.

As circumstances require:

• Determine whether the incident can be handled by resources available onsite or will require activation of ERT.
• Initiate operational shut down, if spill is from pipeline and auto operation did not respond.
• Utilise the vessel to monitor and respond to the spillage of oil by giving suitable instruction/directions.
• Use vessel for containment & collection of oil, using OSR Equipment.
• Survey the area to confirm cleanup has begun satisfactorily.

8.4.2 HEAD – S&E

Immediate:

- Start personal Log of Events.
- Receive brief from OSC.
- Immediately proceed to DCR and assess the situation
- Assist OSC in reporting to all concerned and other Government agencies.

As circumstances require:

• Consider getting help from other operators and other resource agencies.
• Monitor on-shore clean up activities very closely
• Assess extent of loss and initiate insurance formalities in co-ordination with CFO.

Standing Down:

• Agree to stand-down with OSC
• Inform Government Authorities as required.
• Collect all log of event, from ECR
• Collect log of events, from offshore/onshore
• Mobilise investigation and record all outcome
• Prepare and circulate investigation report

Monitor Implementation of action items and close out of each item.

8.4.3 GENERAL MANAGER (ADMIN & PR)

Immediate:

- Assess the seriousness of the incident, upon receipt of the information, mobilize ECT at ECR, if required
- Receive brief from Leader, ECT
- Coordinate movement of senior officers to the incident spot.
- Seek help from state administration as required.

General:

• Arrange necessary boarding/lodging arrangement for any party/personnel arriving from outside in connection with oil spill incident

• Liaise with OSC and team leaders, ERT on resources availability and progress of cleanup operations

• Coordinating OSR efforts between OSC and ECT.

• Providing all the support in terms of manpower, equipments, vehicles, watercrafts, helicopter etc if available. Things, which are not available, are to be discussed with Emergency Control Team (ECT) without any delay for procurement and supply. Urgency of each item is to be mentioned against each demand.

• Checking stock level of consumables held by OSC and his team and initiating the procurement action well in advance in consultation with OSC.

• Making available all the latest weather forecast to the OSC, both in afloat and ashore operations.

• Ensuring that OSC and his team are provided food and water at the work site, so as to ensure the operations continue round the clock till its completion.

• Ensuring that every action carried out under his supervision is suitably logged in the incident log book.

As circumstance require:

• Call ERT personnel as per plan

• Confer with Head HSE and determine the most effective method of dealing with the spill.

• Seek help from state administrative (PCB) for shore cleanup, as required

• Ensure safety & security of men be kept in the mind at all times.
• Request support from external resource
• Mobilise airborne surveillance to survey the area to confirm, either:
  # clean-up has been satisfactorily achieved, **or**
  # natural dispersion is effective, **or**,
  # that the slick is no longer a hazard.
• Instruct the designated tug / vessel to act in consultation with OSC

8.4. 4 General Manager – FINANCE

Immediate:

- Start personal log of events
- Receive brief from OSC
- Mobilize required manpower of the dept on duty
- Check fund status for contingency expenditure

As circumstance require:

• Authorise expenses for spill response, on as required basis on requirement raised by ECT/OSC.**:**
• Assist / Advise ERT in all matters requiring financial approval
• Compile total expenses incurred by OIL in the Oil Spill Response activities for putting subsequent claim on insurance.

8.4.5 General Manager - SERVICES

Immediate:

- Start personal log of events
- Receive brief from ECT
- Mobilize civil engineering works at the site.

General:

• Mobilise cleanup team and equipment as required by ECT
• Liaise with OSC and team leaders, ERT on resources availability and progress of cleanup operations
• Keep at least 10 persons standby, for activation of shore cleanup, if required

8.4.6 General Manager – ENGINEERING

Immediate:

- Start personal log of events
- Receive brief from OSC
- Mobilize all manpower of the dept on duty
- Advise OSC any danger to the mechanical equipment or machinery from oil spill.
- Breakdown/maintenance team to be briefed about the incident
- Make these teams available at all times to attend defects/assist ERT as and when required.
- Ensure and confirm all mobile units, cranes, forklifts, tankers, and tractor etc are operational.
- Establish contact on VHF/telephone with ECR.

As circumstance require:

• Provide lighting arrangement at the worksite, if working onshore.

• Portable petrol /diesel driven gensets be made available on crafts on required basis.

General:

• Assist / Advise ERT in all technical matters

• Advise safe working parameters of the technical equipment to the ERT

8.4.7 FIRE SERVICE COORDINATOR

Immediate:

- Start personal log of events
- Receive brief from OSC
- Proceed to ECR and assess the situation
- Establish Contact with all own departmental personnel and direct them of requirement arising
- Advise OSC on fire and safety matters which are likely to be encountered due to the oil spill
- Advise appropriate precautionary method to be adopted for the shore cleanup

As Circumstances Require:

• Inspect the shoreline structure affected/likely to be affected by oil spill/slick

• Ensure equipment likely to be used for shore cleanup are kept ready for use (i.e. pick axe, shovels, dumper vehicle, empty gunny/ cement bags etc)

• Check all fire equipment about their serviceability and reach.

General:

• Assist OSC in all respect

8.4.8 HEAD – FIELD COMMUNICATION

Immediate:

- Receive brief from ECR
- Ensure Operation Room (Communication center) manned round the clock and all communication equipment, telephone/cell phone, VHF equipment etc are operational.
- Stand by VHF equipment is to be issued to the ECT, OSC and ERT Team Leaders etc
- Monitor all the VHF and telephone conversation.
- Stop all cargo operation, if required.
- Log of events to be maintained.

As circumstance required:

• Arrange return of cargo to safer place, if required

• Arrange return of non-essential equipment, vehicles etc.

• Completely drain out the manifold/pipelines of F.O./HSD etc

• Keep monitoring/plotting the position of oil slick, as reported from time to time.Keep all the ECR updated about the slick

General:

• Keep a detailed log of events

• Personnel not connected with the operation / OSR work are not to be permitted at the site of spill

8.4.9 HEAD- TRANSPORT

Immediate:

- Start personal log of events.
- Receive brief from OSC.
- Mobilise Transports of Bowsers as required.
- Co-ordinate transport as advised by OSC.

As circumstances require:

• Obtain a suitable slick tracking model for the size of oil spill that has occurred and predict the likely developments of the incident.

• Mobilise onshore clean-up teams and equipment as advised by OSC.

• Liaise with Manager - Admin and onshore Oil Spill Clean-up Teams on progress of resource availability and clean-up operations.

• Arrange for contracted vessels to be equipped with any required equipment (i.e.PRP/OSD, booms, absorbent booms, mats etc)..

• Inform nearby installation operators if slick is identified to be moving out of the operating area.

• Keep OSC informed of major developments affecting clean-up operations onshore.

• Assess requirement of water and land transport and accordingly take action

General:

• Keep a detailed log of events.

• Procure supplies, equipment-manpower and transportation through retained Oil Spill Contractors, other oilfield companies, Mutual Aid Partners, Government Agencies etc.

• Log all requests made for supplies/equipment resources.

Standing Down:

• Stand down only after instruction from OSC.

• Submit log of events to General Manager (HSE).
• Arrange to return equipments / services availed from other sources.
• Commence procedures to ensure payments are made for emergency resources.

8.4.10 HEAD (MEDICAL)

Duties of Head Medical:

Medical Officer will join DCR, the moment ECT is activated. He will be standby for any response to any injury or situation demanding medical treatment, and will suggest the best course of action, on communication channel, for the treatment. In the case of evacuation programmes, he will co ordinate with the concerned hospital, depending upon the nature of help needed, regarding the admission of the patient, and will finalise everything for the treatment, by the time, the patient is shifted to nearest Hospital.

The evacuation has to be logged and details submitted by the Medical officer to ECR, before the termination of the operation.

All expenses in this regard are to be accounted for separately, as these will be needed for insurance claim along with all the other expenses, related to oil spill response.

8.4.11 On Site Co ordinator (OSC)

On Site Coordinator shall be the official Installation Manager under whose jurisdiction oil spill has taken place, shall be the person responsible for the oil spill response activities.

On Site Coordinator (OSC) is to assess the situation of the spill offshore and shall take action as per following:

1. Effective and Safe deployment of oil spill response (OSR) equipment and deployment of trained OSR team.
2. Requisitioning of extra man power from Support Manager through ECR.
3. Shall prepare the duty roster of personnel's and ensure that every one has understood his duty to be performed.
4. Shall ensure that each duty watch is suitably turned around as per demand of the situation.

5. Shall ensure that he is always in communication with his team /team leaders as well as Emergency Control Room (ECR) with the help of VHF /Walkie Talkie, Mobile Cell Phone.
6. Shall assess the oil spill scenario and requirement of consumable items for example Sorbent sheets, Sorbent booms, Dispersants etc. and initiating procurement action indicating approximate time when these items are required.
7. Shall ensure that all the actions carried out are logged suitably by the team leaders. (This would assist in analyzing efficiency of men and machine both as well as provide scope for further improvement in various actions).
8. Shall route all his requirements of men and material including vehicles and water crafts etc. through Incident Controller only.
9. Shall ensure safe recovery/return and accounting of all the items provided to him for the purpose.
10. Shall ensure that all his men are in possession of proper safety gears prior to starting of any operations i.e. Lifejacket, Life Buoy Lifeline, Rain coat, Torches, Working hand gloves etc.
11. Shall give regular feed back to ECT on the developments of oil scenario so as to formulate and decide future course of actions. Shall ensure action and also anticipate the future requirement of men, material and equipments etc.
12. Shall get the updated weather forecast and adjust his deployment pattern of men and machinery accordingly.

Sequential Steps

Immediate:

- Start personal log of events.
- Establish the following information:

. time spill occurred,
. position and shape of the slick,
. visual appearance and apparent thickness of the oil,
. percentage cover of the various thickness of oil,
. speed and direction of the slick,
. sensitive areas/vessels, etc in its path,

. local weather conditions and sea state.

- Investigate the source of leak / spillage
- Co-ordinate with OSC in drawing a strategy and dealing with the Emergency.
- Contact and board the vessel planned to have ERT and the OSR equipment.

As circumstances require:

Determine whether the incident can be handled by resources available onshore/ offshore. If not, request activation of further mobilization of resources as per the Oil Spill Contingency Plan from ECT.

• Instruct boat to take samples of spilled oil, if possible, for analysis and evaluation.

• Initiate production shut down depending on the conditions.

• For a spill capable of being controlled by the resources available offshore, contain and collect oil using OSR equipments.

General:

• Inform ECT as frequently as possible, but at least once every hour, of all actions and developments offshore.

Standing Down:

- Send status report to ECR
- Ensure records of the event are gathered from all parties.
- Ensure all OSR equipment are cleaned after operation as per the maintenance schedule and store properly
- Ensure borrowed equipments are returned as per contract and recovered oil is properly stored or disposed.
- Advise vessels suitably
- Restore normal operations
- Forward all log of events to ECT for HSE Manager's record and action.

Following also are to be kept in mind by OSC

a) Availability of sufficient lightings

b) Availability of First Aid kit
c) Starting / Stopping instructions
d) List of Do's and Don'ts

The moment the OSR Operation /Exercise is over the OSC is to forward a detailed report within 24 hours to ERT covering all the aspects of the exercise or operations including successes achieved and failures happened honestly.

These experiences and lessons learnt would provide a good base for future operations/exercises. If possible, OSC is to provide a rough drawing/sketch of the equipment placement date wise indicating true north, wind and tide conditions. OSC is also to evaluate the performance of his team and team leader after every operation /exercise and rotate them in order to make a balanced OSR team.

8.5 Financial Authorities: The financial authorities shall remain the same and no changes are proposed .However the restrictions imposed (if any)for procurement of items shall be eased, considering the urgent requirement of the OSR items as they would be required only in emergency conditions. Hence suitable provisions shall be incorporated to satisfy audit authorities.

8.6 MANPOWER AVAILABILITY (ON SITE/ ON CALL)

The leader, ECT will co ordinate all activities including movement of men and material and their replacements as required, in order to continue the OSR Operations uninterrupted, list of available manpower at that particular time for OSR Team will be provided by OSC in co operation with surface, drilling and RCMT. However departments/agencies providing assistance of water craft /vehicles, mobile cranes, forklifts etc will continue to do so in communication with Leader, ECT.

9.0 TRAINING SCHEDULES AND DRILL / EXERCISES

9.1 OIL SPILL RESPONSE DRILLS AND EXERCISES

OIL shall have regular internal exercises and testing, validation and updation of the OSCP to ensure that skills and awareness related to OSR are maintained to a state of operational readiness. This will also check the functional ability of the ERT. In order to have optimal utilisation of equipment with minimum wear and tear, **quarterly exercises** are recommended for testing of OSCP. Testing and exercises also provide
management an opportunity to assess equipment, measure performance and obtain
feedback from participants, update and correct the OSCP, show sincerity for protection of marine environment and company's commitment on oil spill prevention and response.

Exercise and drills may involve any or a combination of the following:
(i) Oil spill contingency plan
(ii) Mock exercise activating oil spill response
(iii) Equipment and personnel mobilization and deployment
(iv) Joint exercise with other companies
(v) Full-scale incident management exercise

Each exercise shall be debriefed to identify weaknesses in the OSCP and equipment, and appropriate remedial action shall be undertaken where required. The Head (S&E) shall ensure that amendments reflecting these actions are incorporated into this plan.

The OSC is to ensure that all OSR Team personnel who would be handling / operating the OSR equipments and materials undergo specific training and gain confidence in handling and operation of the equipments as they are to operate.

9.3 EVACUATION PROGRAMME

Drinking water, food etc should be arranged for the persons working at site.

OSC will inform the nearby locality about the dangerous occurrence and he will carry out evacuation of the nearby locality.

10.0 TERMINATION OF OPERATION

The termination of the operation shall be decided by the RCE on feedback received from ECT and OSC. Regulating authorities, like CG, SPCB etc shall also be contacted before coming to this decision.

10.1 STANDING DOWN EQUIPMENT, CLEANING, MAINTENANCE AND

10.1.1 REPLACEMENT

On completion of Pollution Response Operations, all the equipments, machineries and consumables shall be accounted for and checked for their serviceability.

All equipments and machineries shall be thoroughly washed with fresh water as per the OEM's guidelines, necessary for maintenance and then the equipments stored, and secured in their respective places.

10.1.2 PREPARING FINAL DETAILED REPORT

After completion of operations, the OSC shall prepare a detailed report covering all the aspects of the oil spill cleanup, which shall include success and failures, as well as lessons learnt, recommendations about equipments, man power, plans etc. The report is to be forwarded to Leader, ECT/ECR.

10.1.3 REVIEWING PLANS AND PROCEDURES FROM LESSONS LEARNT

The DCR will carryout deliberations on the report received from OSC and give its recommendations to Head HSE for putting it to ED/Management for necessary action.

10.2 HELP FROM MUTUAL AID PARTNERS

In case of the spill containment is beyond the internal resources the OSC may seek help from mutual aid partners to arrest the loss to bare minimum. In this regard the approved document on "Offsite Emergency Response Plan" may be referred.

APPENDIX – 1

TERMINOLOGY

CHARACTERISTICS OF OIL

The key characteristics which determine the fate of spiled oil are given here. Contingency plan must have ready data for various types of oils which are handled or likely to be handled at a location.

Specific Gravity

It can provide clue about the broad class of oil (light , middle , heavy etc.) though not always. As a fundamental property it indicates whether the oil will float or sink if spilled over water.

Pour Point

It is the temperature at which oil ceases to flow or pour. Oils having pour point higher than ambient sea temperature will solidify when spilled.

Viscosity

It is a measure of resistance to flow. and is directly related to temperature. High viscosity oil present special problems during recovery and transfer to storage. Viscosity also dictates the spread of oil .

Asphaltene Content

Oil with Asphaltene content higher than 0.5% exhibit tendency to form oil-water emulsions. Rate of formation of emulsion depends on type of oil, temperature and sea conditions. Emulsion formation increases volume and viscosity thereby leading to problems in recovering , storage and handling of oil.

Flash Point

The lowest temperature at which a combustible liquid gives off sufficient vapor to form a vapor mixture with air near the surface of liquid. This is property gives an indication about fire hazards .

APPENDIX – 2

OIL SPILL REPORT FORM

1. Name of person reporting incident :

2. Title/Designation :

3. Company :

4. Telephone/Fax numbers :

5. Date and time :

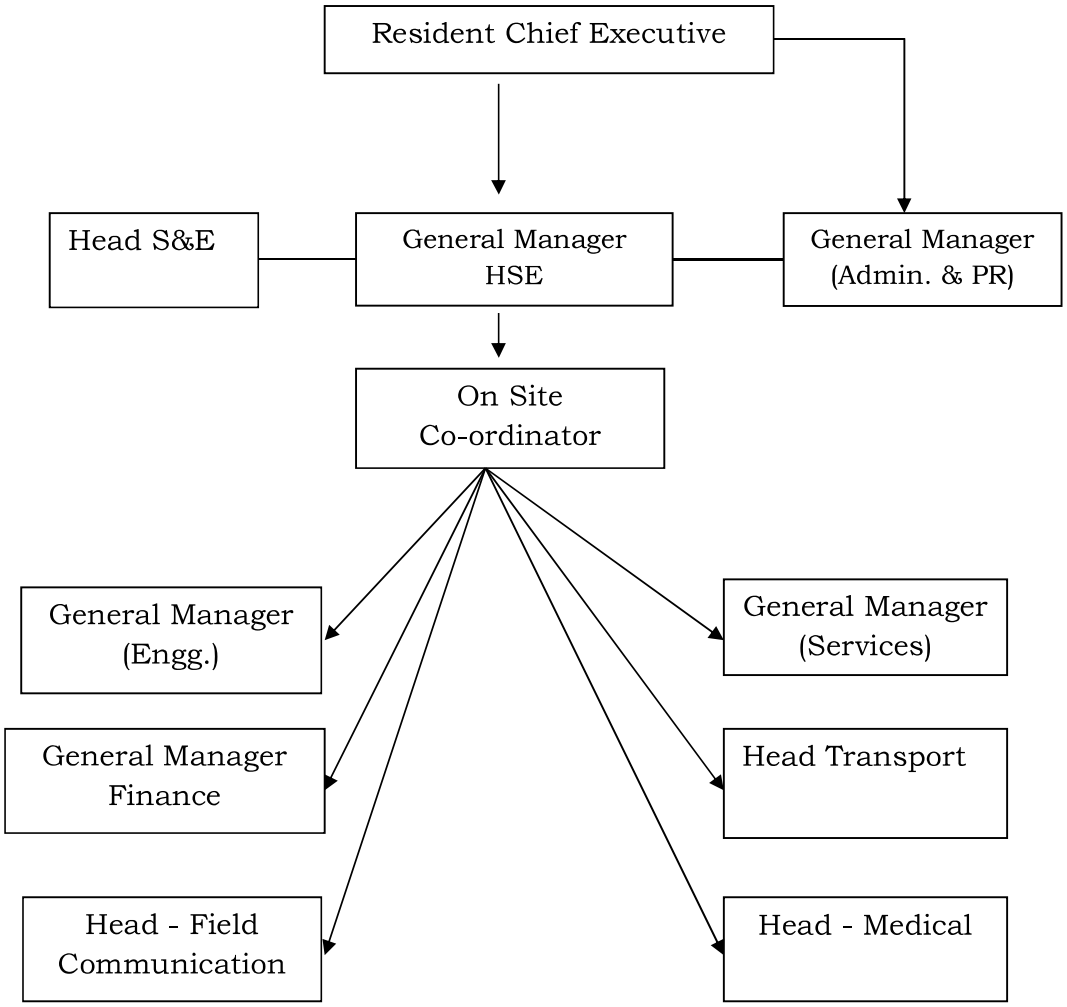
6. Spill Location :

7. Type and quantity of oil spilled :

8. Cause of Spill :

9. Response to spillage (If any) :

10. Any other information **:**


Resident Chief Executive
Head S&E
General Manager HSE
General Manager (Admin. & PR)
On Site Co-ordinator
General Manager (Engg.)
General Manager Finance
Head - Field Communication
General Manager (Services)
Head Transport
Head - Medical

APPENDIX -4

DO'S AND DON'T'S

1. **DO'S**

- Release only authorized verified written information.
- Keep accurate records and logs of all enquiries and news coverage.
- Escort the press and government agencies to the nearest safe place on the Emergency site.
- Have designated spokesmen. Know what information can and cannot be released.

2. **DON'Ts**

- Speculate on the causes of the emergency.
- Speculate on the resumption of normal operations.
- Speculate on the outside effects of emergencies.
- Speculate on the value of losses and damage.
- Interfere with the legitimate duties of media executives
- Place blame of emergencies.
- Crowd in the affected area (those who have no role assigned in the disaster plan should stick to their jobs.)

Project Report

On

MONITORING OF LAND SUBSIDENCE DUE TO HYDROCARBON EXTRACTION IN ASSAM

A collaborative project between

National Remote Sensing Centre (NRSC)
Indian Space Research Organisation (ISRO)
Hyderabad

and

Oil India Limited
Duliajan - 786 602, Assam

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NATIONAL REMOTE SENSING CENTRE

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Subsidence due to hydrocarbon extraction has been reported in various oilfields (e.g. Aghajari, Iran and Lost Hills and Belridge, USA) across the world. In this project, we have attempted to delineate zones of possible land subsidence, if any due to hydrocarbon extraction in and around the oil fields owned by Oil India Limited within Assam and parts of Arunachal Pradesh. Microwave remote sensing data were analysed by differential interferometric technique to identify land subsidence. An integrated suite of microwave data ranging from Envisat ASAR (C band), ALOS-PALSAR 1&2 (L band) and Sentinel-1 (C band) were used in this study. The temporal range for the data extends from 2005 (Envisat) to 2018 (Sentinel). A total of 17 master-slave pairs have been processed with temporal interval of 1 to 3 years.

It is observed that due to the thick vegetation cover and annual dynamicity of the vegetation and fluvial landforms, there is a significant loss in coherence between the master-slave pairs. Distinguishable, but random and gradational fringe patterns are observed in and around towns of Chabua, Duliajan, Doom Dooma, Tinsukia and Digboi in Assam and around Diyun in Arunachal Pradesh. However, field verifications reveal no signatures of ground subsidence in this region. Further the identified locations are not correlated to the well locations of OIL. Therefore, on the basis of the interferometric method and time frame of the observation, the study does not reveal and delineate any subsidence in the area.

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- Abhijit Sonowal, Dy. Chief Geophysicist
- Imran Khan, Superintending Geophysicist
- Ratnadeep Das, Senior Engineer (Safety & Environment)

Executive Summary

Subsidence due to hydrocarbon extraction has been reported in various oilfields (e.g. Aghajari, Iran and Lost Hills and Belridge, USA) across the world. In this project, we have attempted to delineate zones of possible land subsidence, if any due to hydrocarbon extraction in and around the oil fields owned by Oil India Limited within Assam and parts of Arunachal Pradesh. Microwave remote sensing data were analysed by differential interferometric technique to identify land subsidence. An integrated suite of microwave data ranging from Envisat ASAR (C band), ALOS-PALSAR 1&2 (L band) and Sentinel-1 (C band) were used in this study. The temporal range for the data extends from 2005 (Envisat) to 2018 (Sentinel). A total of 17 master-slave pairs have been processed with temporal interval of 1 to 3 years.

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CHAPTER I

INTRODUCTION

Land subsidence is a major hazard in several places in the world. Slow rates of subsidence caused by naturally occurring processes such as sediment compaction is very commonly seen and rarely causes any anthropogenic effect. However, rapid subsidence caused by fluid extraction like hydrocarbon or ground water may cause surface strains which can result in damage to structures.

Rapid ground subsidence over areas of petroleum and gas extraction has been observed previously (Mayuga and Allen, 1970; Pratt and Johnson, 1926; Vanhasselt, 1992). Parts of the city and port of Long Beach, California, suffered major problems due to rapid (up to 0.75 m yr^{-1}) land subsidence related to extraction of oil from the underlying Wilmington oil field (Mayuga and Allen, 1970). Subsidence over petroleum extraction zones can also cause significant damage to extraction infrastructure itself, including expensive well failures. Traditional measurements of land subsidence are made by detailed surveying and tide gauges. Recently, GPS (Global Positioning System) surveys and tiltmeters have been used. These surveys are ground based and require large number of individual observations to characterise and map the subsidence distribution. Therefore they are also costly.

Synthetic Aperture Radar (SAR) images can be combined using differential interferometric analysis to remotely measure surface deformation. While most applications of InSAR to date have been used to study nearly instantaneous deformation due to earthquakes and rapid motion of glaciers, gradual subsidence and uplift of the earth's surface have also been measured (Briole et al., 1997; Carnec et al., 1996; Fruneau et al., 1996).

The Assam-Arakan basin is one of the richest petroliferous basins in India. The major operator in the region is Oil India Limited which has been carrying out exploration and production over the last few decades. As a consequence of this, there may be a possibility of ground subsidence due to hydrocarbon extraction in this region. The present study aims to delineate probable locations of ground subsidence, if any in the region using differential interferometric technique.

1.1 Background

Based on the interaction between Department of Space and Ministry of Petroleum & Natural Gas on effective use of Space Technology and Applications in the Ministry of Petroleum & Natural Gas, a national meet was held on 7th September 2015. Subsequently, a project formulation meeting between the Ministry of Petroleum & Natural Gas (MoP&NG) and Indian Space Research Organization (ISRO) was organized at National Remote Sensing Centre, Hyderabad, on 20th November 2015 with the representative officers from ONGC, Oil India Limited and GAIL. This meeting was aimed to identify key areas where possible collaboration of work can take place to incorporate further use of space technology in the MoP&NG. In this meeting, four major collaborative activities such as (1) Oil slick monitoring, (2) Development of geospatial tool for hydrocarbon exploration, (3) Monitoring of land subsidence due to hydrocarbon extraction and (4) Pipeline monitoring.

Subsequently, via email dated 1st June 2017, OIL expressed interest in undertaking a land subsidence study in their operational areas in Assam and Arunachal Pradesh in collaboration with NRSC. A framework MoU was signed between OIL and NRSC on 1 August 2017. Delineation and mapping of subsidence from differential interferometry using microwave remote sensing data carries with it some inherent limitations which needs to be understood in order to decipher the results obtained from it. In the meetings preceding this project such limitations were explained to OIL. In understanding of these and as per the terms of the framework MoU, a project entitled “Monitoring of land subsidence due to hydrocarbon extraction in Assam” was taken up by National Remote Sensing Centre (NRSC), Hyderabad. Subsequently, a project specific MoU was signed on 21st May 2018 between NRSC and OIL to execute the land subsidence project.

1.2 Objectives

The following objectives are formulated on the basis of the discussion held between OIL and NRSC.

a. Detection of DInSAR-based land subsidence in the study area. The areas of subsidence will be identified and verified in the field.

b. Characterisation of identified and delineated land subsidence areas using surface and subsurface geological (subject to availability) and hydrocarbon extraction data.

1.3 Study Area

The study area includes OIL's operational areas in Assam and Arunachal Pradesh, which is a part of the upper Assam Shelf, a southeast dipping shelf in the foreland part of Assam-Arakan Basin. The shelf part of the basin spreads over the Brahmaputra valley and the Dhansiri valley, the latter lying between the Mikir hills and the Naga foothills. From the Digboi, the shelf runs westward to the southern slope of the Shillong plateau. The shelf-to-basinal slope, i.e. the hinge zone lies below the Naga schuppen belt. The basinal (geosynclinal) part is occupied by the Cachar, Tripura, Mizoram and Manipur fold belts. The shelf part rests on Precambrian granitic basement, whereas the basinal part lies on transitional to oceanic crust. The area within the Upper Assam shelf, having high petroleum potential, measures approximately 56000 sq. km and contains about 7000 m thick sediments of mostly Tertiary period.

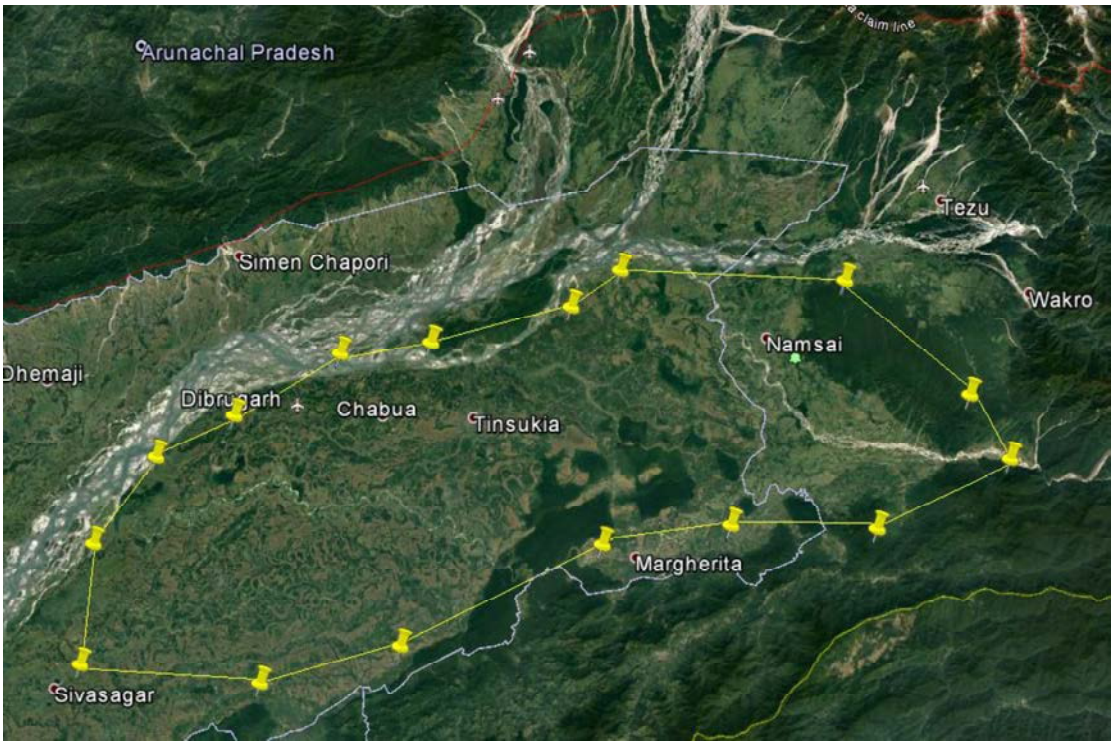

Figure 1: Extent of the Area under Study in Assam and Arunachal Pradesh.

CHAPTER II

GENERAL DESCRIPTION OF THE STUDY AREA

2.1 Location and Accessibility

The study area is located in and around the OIL headquarters based in Duliajan, Assam. The main towns in the region are Tinsukia, Chabua, Makum, Digboi situated in Assam and Diyun situated in Arunachal Pradesh. Duliajan is situated approximately 50 km from Dibrugarh, a major city in Assam.

2.2 Physiography, Drainage and Climate

The study primarily encompasses the flood plain of the Brahmaputra river basin extending upto the foothills of the Himalayas in Arunachal Pradesh. Owing to the annual flooding and dynamicity of the fluvial regime, the landforms and physiographic features change rapidly in time. The climate is moderate with mild summer temperatures and cold winters. Rainfall is heavy and frequent. Owing to the climate and physiography, tea plantations are prevalent in the region.

2.3 General Geology

The study area comprises of the Assam-Arakan Petroleum basin which is one of the most important basin of India. The State of Assam covers the plains of the Brahmaputra and Barak river valleys, the Mikir Hills Plateau, the North Cachar Hills, the plains and hill areas of Cachar district and some marginal plateau and hill areas adjoining the neighbouring states. The Upper Assam Basin is bounded by three major thrust faults that are Himalayan orogenic belt in the north, Mishmi Thrust in the east and Schuppen Belt in south. It is continuously being explored by OIL since discovery in Digboi oil fields in 1889.

Stratigraphy of Assam-Arakan Basin

Sedimentary sequences from Late Mesozoic to Cenozoic Era are exposed in the Assam-Arakan Basin. The sequences can be divided into shelf facies and basinal (geosynclinal) facies. The shelf facies occur in Garo hills, Khasi-Jaintia hills, parts of North Cachar hills and Mikir hills, and below the alluvial cover in Upper Assam, Bengal and Bangladesh. The basinal facies occur in the Patkai range, Naga Hills, parts

of North Cachar hills, Manipur, Surma valley, Tripura, Chittagong hills of Bangladesh and Chin hills of Myanmar (Burma).

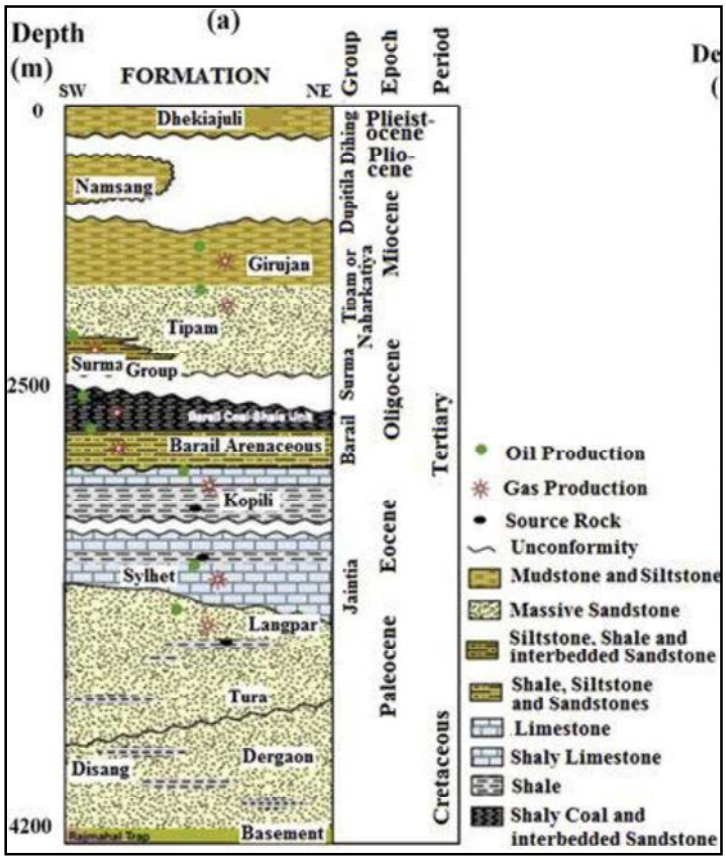

Figure 2. The generalized stratigraphic succession of the study area.

2.4 Hydrocarbon exploration

Oil exploration in India commenced with the discovery of the Digboi oilfield in Upper Assam more than 100 years ago, when, based on surface oil shows, a well was drilled on an exposed anticline, associated with the Naga thrust. Other significant milestones in oil exploration in Upper Assam were the discoveries of the Nahorkatiya, Moran and Rudrasagar oil fields in 1953, 1956 and 1960, respectively. Subsequently, more than 100 oil and gas fields, including Jorajan, Kumchai, Hapjan, Shalmari, Lakwa, Lakhmani, Geleki, Amguri, Charali, Borholla, Khoraghat, Baghjan, Barekuri etc. have been discovered.

Bulk of the oil and gas, discovered in Upper Assam till late 1980s were found in the Barail Group of Upper Eocene to Lower Oligocene age and the Tipam Group of Upper Miocene age. During the last two decades, oil and gas accumulations have been discovered within the Langpar and Lakadong Formations of Paleocene to Lower

Eocene age in several structures. The oilfields, discovered so far, are situated mainly in the areas towards south and southeast of the Brahmaputra River and a few in the thrust belts, associated with Naga Schuppen Belt. However, the area to the north of the Brahmaputra river up to the Eastern Himalayan foothills has remained poorly explored. In the Naga Schuppen zone, apart from the Digboi oil field, two more major oil fields, namely Kharsang and Kumchai fields, having oil accumulations in Upper Miocene to Pliocene reservoirs have been discovered.

CHAPTER III

DATA REQUIREMENTS

3.1 Remote Sensing Data

3.1.1 ENVISAT

ENVISAT (Environmental Satellite) was launched by European Space Agency (ESA) on 1 March 2002. This satellite was the continuation of ERS-1 and ERS-2 and operated in a 35-day repeat cycle, similar to ERS-2. In 2010, the orbit was changed into a 30-day cycle to further broaden the mission lifetime with the objective of providing a bridge to Sentinel missions.

ENVISAT had range of nine on-board sensors which helped the mission to improve and continue the geophysical measurements. They were designed to gather the information about Earth's land, atmosphere, ocean and icecaps using different measurement principles. There was one more instrument named as DORIS, which provided control and guidance and was the tenth sensor on-board ENVISAT.

Advanced Synthetic Aperture Radar is one of the sensors in on-board range of ENVISAT satellite and operated at C-band in variety of modes. It can recognize changes in surface heights with high precision and it has provided continuous data after ERS-1 and ERS-2. It highlights improved ability in terms of coverage, polarisation and modes of operation.

Table 1: Image pairs of Envisat data of Assam area with their specifications.

Sl no.	Image Pair	Acquisition Date	Mode	Data format	Order	Polarization
1.	Master Image	23-08-2004	ASA_IMS_1P	SLC	Ascending	**VV**
	Slave Image	09-12-2005	ASA_IMS_1P	SLC	Ascending	**VV**
2.	Master Image	05-08-2007	ASA_IMS_1P	SLC	Descending	VV

	Slave Image	24-08-2008	ASA_IMS_1P	SLC	Descending	VV
3.	Master Image	09-12-2008	ASA_IMS_1P	SLC	Ascending	VV
	Slave Image	11-08-2009	ASA_IMS_1P	SLC	Ascending	VV

3.1.2 ALOS PALSAR -1

Advanced Land Observation satellite (ALOS) – Phased Array L-band Synthetic Aperture Radar (PALSAR) also called DAICHI (land) is a 4 ton satellite launched by Japan Aerospace Exploration Agency (JAXA) on 24 April 2006. After operating for 5 years, the satellite lost power due to deterioration of its solar arrays and was declared as dead by JAXA on 12 may 2011.

PALSAR is an active microwave sensor utilising L-band frequency to accomplish cloud-free and day and night land observation. It has fine resolution in a conventional mode and has Scan SAR mode which can extricate 250 to 350 km width of SAR images at the expense of spatial resolution. This swath is three to five times wider than conventional SAR images. PALSAR has provided images in two fine beam modes that are (i) Single, dual and quad polarisation, (ii) Scan-SAR wide beam mode. ALOS PALSAR-1 is a freely available data and can be downloaded from the website of Alaska Satellite Facility https://vertex.daac.asf.alaska.edu/

Table 2: Image pairs of ALOS PALSAR-1 data of Assam area with their specifications.

Sl. No.	**Image Pair**	**Acquisition Date**	**Mode**	**Data format**	**Order**	**Polarization**
1.	Master Image	18-08-2007	FBD	SLC	Ascending	HH+HV
	Slave Image	20-11-2008	FBS	SLC	Ascending	HH
2.	Master Image	20-11-2008	FBS	SLC	Ascending	HH

	Slave Image	08-07-2009	FBD	SLC	Ascending	HH+HV
3.	Master Image	29-01-2007	FBS	SLC	Ascending	HH
	Slave Image	06-08-2009	FBD	SLC	Ascending	HH+HV

3.1.3 ALOS PALSAR -2

Advanced Land Observing Satellite 2 (ALOS 2), also called Daichi 2, is a 2-ton Japanese satellite launched in 2014. In continuity to its predecessor, PALSAR-2 is also an active microwave sensor utilising L-band frequency. The PALSAR-2 radar is a significant upgrade of the PALSAR radar, allowing higher-resolution (1x3m per pixel) spotlight modes in addition to the 10 m resolution survey mode inherited from the ALOS spacecraft. ALOS PALSAR-2 is not a free data and can be purchased through NRSC Data Centre.

Table 3: Image pairs of ALOS PALSAR-2 data of Assam area with their specifications.

No. of Pairs	**Image Pair**	**Acquisition Date**	**Mode**	**Data format**	**Order**	**Polarization**
1.	Master Image	01-10-2015	FBD	SLC	Ascending	HH+HV
	Slave Image	29-09-2016	FBS	SLC	Ascending	HH
2.	Master Image	01-10-2015	FBS	SLC	Ascending	HH
	Slave Image	28-07-2018	FBD	SLC	Ascending	HH+HV
3.	Master Image	01-10-2015	FBS	SLC	Ascending	HH

	Slave Image	01-03-2018	FBD	SLC	Ascending	HH+HV

3.1.4 SENTINEL-1

Sentinel 1 is a satellite launched by European Space agency (ESA) on 03 April 2014 and was named as Sentinel 1A, and then second Sentinel 1 satellite was launched on 2016 and named as Sentinel 1B. Sentinel 1 satellite operates at a centre frequency of 5.401 GHZ i.e. C band and is able to cover and map the entire world in just 12 days of time span. The two satellites constellation offers the 6 days exact repeat cycle with the repeat frequency of 3 days as it covers ascending and descending direction. This satellite follow orbits with ascending and descending flight direction with respect to North, this allows the view of same area in two different geometries. When the satellite follows orbit with descending flight direction, it travels from North to South and views the selected area looking westward where as in ascending flight direction it travels back from south to north and views the same area looking eastward. Sentinel 1 is a freely available data and can be downloaded from the website of ESA Copernicus Open Access Hub https://scihub.copernicus.eu/

Table 4: Image pairs of Sentinel data of Assam area with their specifications

Sl. No.	Image Pair	Acquisition Date	Mode	Data format	Order	Polarization
1.	Master Image	17-10-2014	IW	SLC	Ascending	VV-VH
	Slave Image	22-03-2015	IW	SLC	Ascending	VV-VH
2.	Master Image	29-10-2015	IW	SLC	Ascending	VV-VH
	Slave Image	08-02-2017	IW	SLC	Ascending	VV-VH
3.	Master Image	22-05-2017	IW	SLC	Ascending	VV-VH

	Slave Image	10-02-2018	IW	SLC	Ascending	VV-VH
4.	Master Image	11-12-2015	IW	SLC	Descending	VV-VH
	Slave Image	29-12-2016	IW	SLC	Descending	VV-VH
5.	Master Image	03-06-2017	IW	SLC	Descending	VV-VH
	Slave Image	29-05-2018	IW	SLC	Descending	VV-VH

Table 5: Image pairs of Sentinel data of Arunachal Pradesh with their specifications

Sl no.	Image Pair	Acquisition Date	Mode	Data format	Order	Polarization
1.	Master Image	17-10-2014	IW	SLC	Ascending	VV-VH
	Slave Image	22-03-2015	IW	SLC	Ascending	VV-VH
2.	Master Image	22-04-2015	IW	SLC	Ascending	VV-VH
	Slave Image	19-04-2016	IW	SLC	Ascending	VV-VH

3.2 Ancillary data

1. Well information within the mentioned study area as provided by OIL.
2. Geological map of the region as provided by OIL.

CHAPTER IV

REMOTE SENSING DATA ANALYSIS

4.1 Methodology for Subsidence Detection

Differential Interferometric SAR (DInSAR) techniques consist of combination of two SAR images of the same area acquired from slightly different positions (Figure 6).

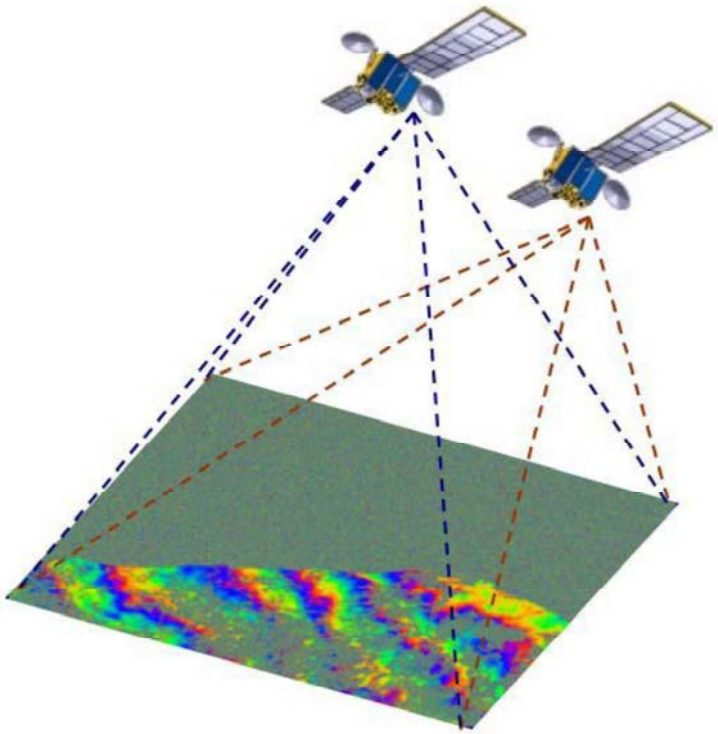

Figure 3. DInSAR acquisition scheme.

The result of this combination provides a new image, known as 'interferogram' consisting of fringes, whose phase component is formed by the following term:

$$\Delta\Phi Int = \Phi Topo + \Phi Mov + \Phi Atm + \Phi Noise$$

where, ΦTopo denotes the topographic component, ΦMov denotes the terrain deformation/ displacement component, ΦAtm is the noise component and ΦNoise is the thermal noise.

Topography, atmospheric effects and thermal noise needs to be removed or optimized to obtain precise measurements of terrain movement. When working with classical DInSAR interferograms (combination of two SAR images) the main problem is the presence of atmospheric artefacts, since there is no way to cancel them without a priori information. On the other hand, the term related with topography can be cancelled out using an external Digital Elevation Model (DEM) and the orbital ephemeris from the SAR acquisitions, considering no height errors on the DEM.

$$\Delta\Phi dif = \Phi ErrorTopo + \Phi Mov + \Phi Atm + \Phi Noise$$

It is a recent remarkable improvements in SAR differential interferometry that has led to an innovative approach based on the use of a large dataset of SAR images over the same area to overcome the intrinsic limitations of conventional DInSAR in terms of temporal and geometrical decorrelation as well as atmospheric disturbances (Ferretti et al 2001; Hooper et al 2004; Kampes, 2006; Lanari et al 2004; Mora et al 2003;Werner et al 2003).

Broad work flow diagram for generating land subsidence map using satellite based DInSAR technique is shown in Figure 4.

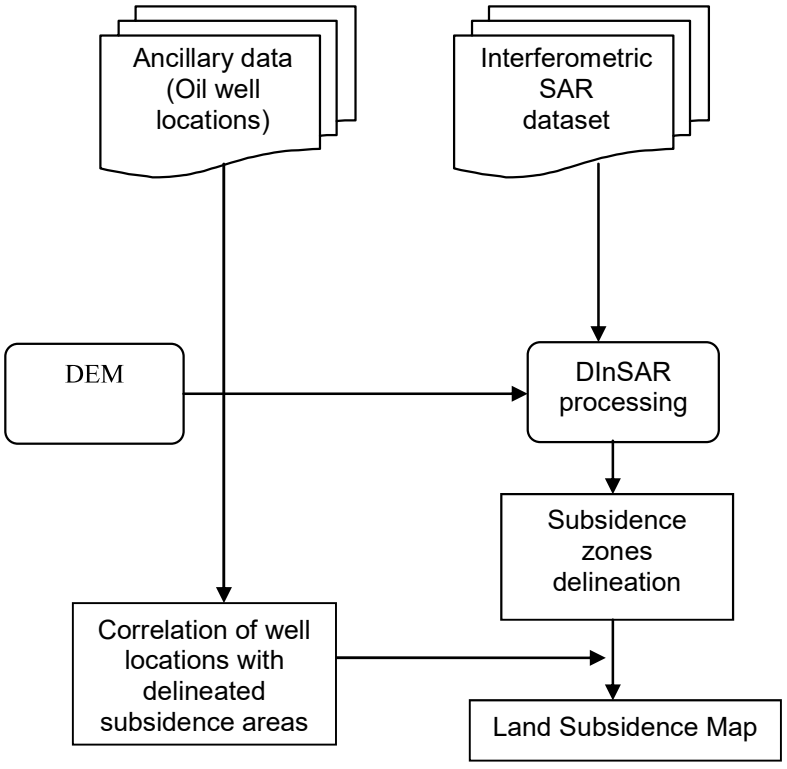

Figure 4. Work flow diagram for generating land subsidence map using DInSAR technique.

The scene pairs as mentioned in chapter III were processed with standard interferometric workflow using SARSCAPE © software. It is seen that due to the thick vegetation cover and annual dynamicity of the landuse practices and fluvial landforms, there is a significant loss in coherence from one image to other. To maintain acceptable coherence, the datasets were paired as master-slave with temporal baselines of one to three years. Although a total of 17 master slave pairs were processed, only few pairs showed significant fringe development.

CHAPTER V

RESULTS

5.1 Observations from Envisat Scene Pair (2008-09) in Assam

The filtered and geocoded interferogram from the Envisat scene pair of 2008 master and 2009 slave is shown in figure 5. As it is seen that C band data suffers from loss of coherence to a greater extent as compared to L band, the temporal base line of the Envisat data pairs were restricted to 1 year. It is seen from the figure that gradational fringes are observed in the towns of Duliajan, Tinsukia and Digboi and few other areas in the vicinity of these towns.

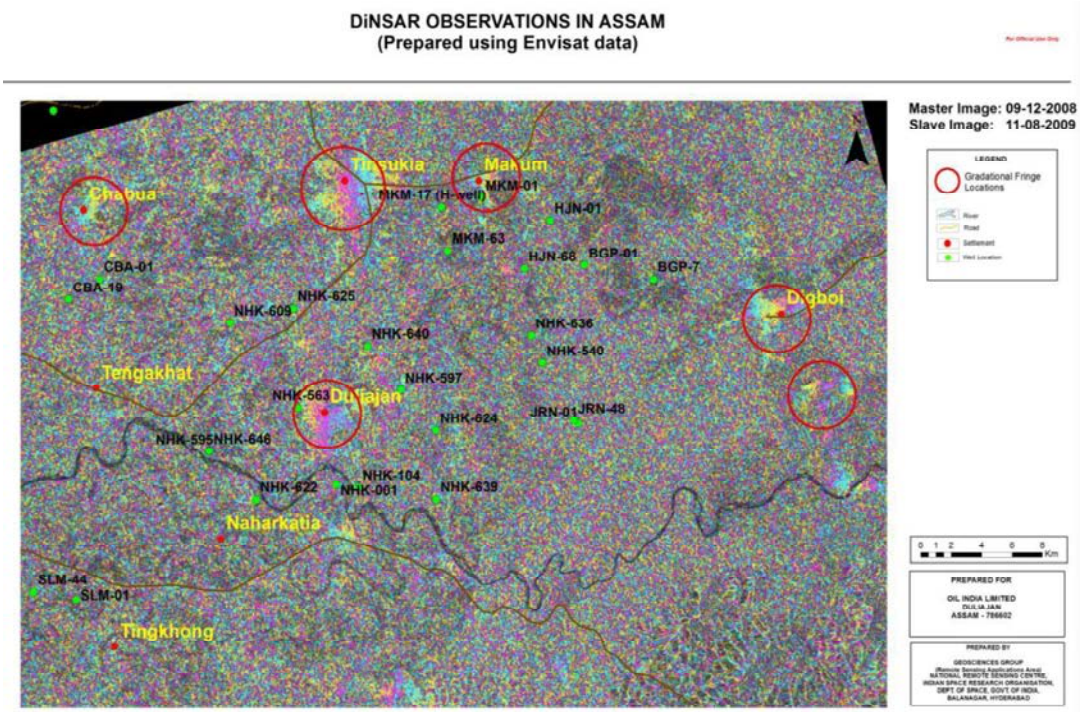

Figure 5. Filtered interferogram of the study area derived from Envisat data. Fringes are observed in the towns of Duliajan, Tinsukia and Digboi as well as locations circled in red.

5.2 Observations from ALOS PALSAR-2 Scene Pair (2015-18) in Assam

Three pairs for ALOS PALSAR-2 scenes were processed over the given study area with the maximum temporal baseline of 3 years. The filtered interferogram is shown in figure 6. Similar random and gradational fringes around Tinsukia and Chabua are observed (Figure 6). The well locations received from OIL were overlaid on the map, however, no conclusive correlation between the fringe patterns and well locations could be deduced.

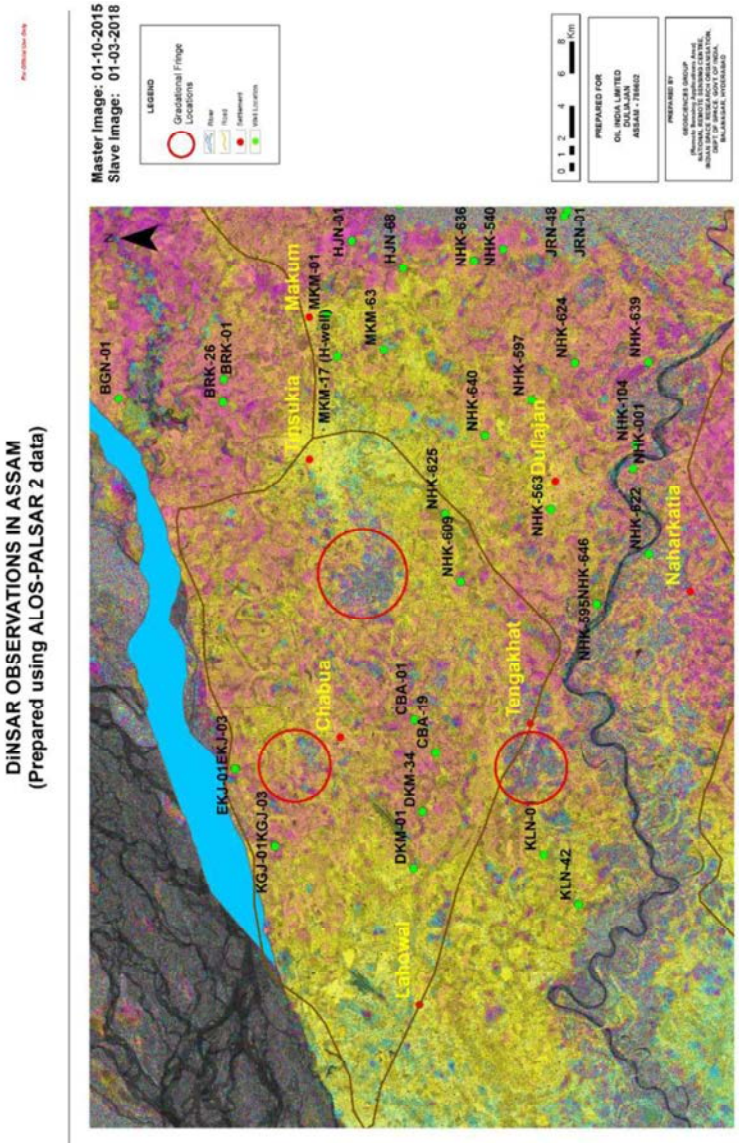

Figure 6. Filtered interferogram of the study area. Fringes are observed in the towns of Tinsukia and Chabua as circled in red. Well locations are marked in green dots.

5.3 Observations from Sentinel-1 Scene Pair (2015-17) in Assam

The filtered interferogram generated from the Sentinel-1 scene pair (figure 7). Minor gradational fringes are seen in the towns of Tinsukia, Chabua and Digboi. However, as seen from the PALSAR results, the fringes show no apparent correlation with location of the wells. Further the fringes are localized and not indicative of any regional subsidence.

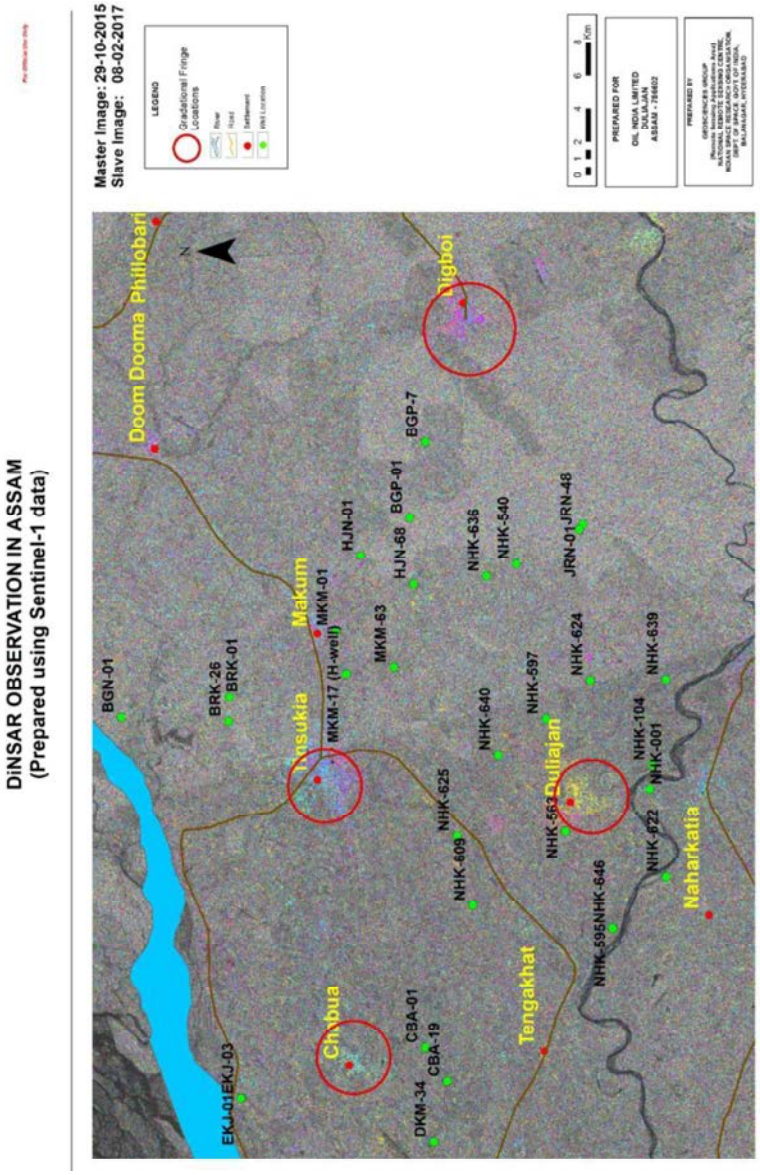

Figure 7. Filtered interferogram of the study area from Sentinel-1 data. Fringes (red circles) are observed in the towns of Chabua, Duliajan Tinsukia and Digboi.

5.4 Observations from Sentinel-1 Scene Pair (2015-2016) in Arunachal Pradesh

As per the study area provided by OIL, a small section of Arunachal Pradesh is also encompassed within the given boundary. Three pairs of Sentinel 1 data were processed for the given area to identify signatures of land deformation, if any. Figure 8 shows five locations of gradational fringe development in Arunachal Pradesh.

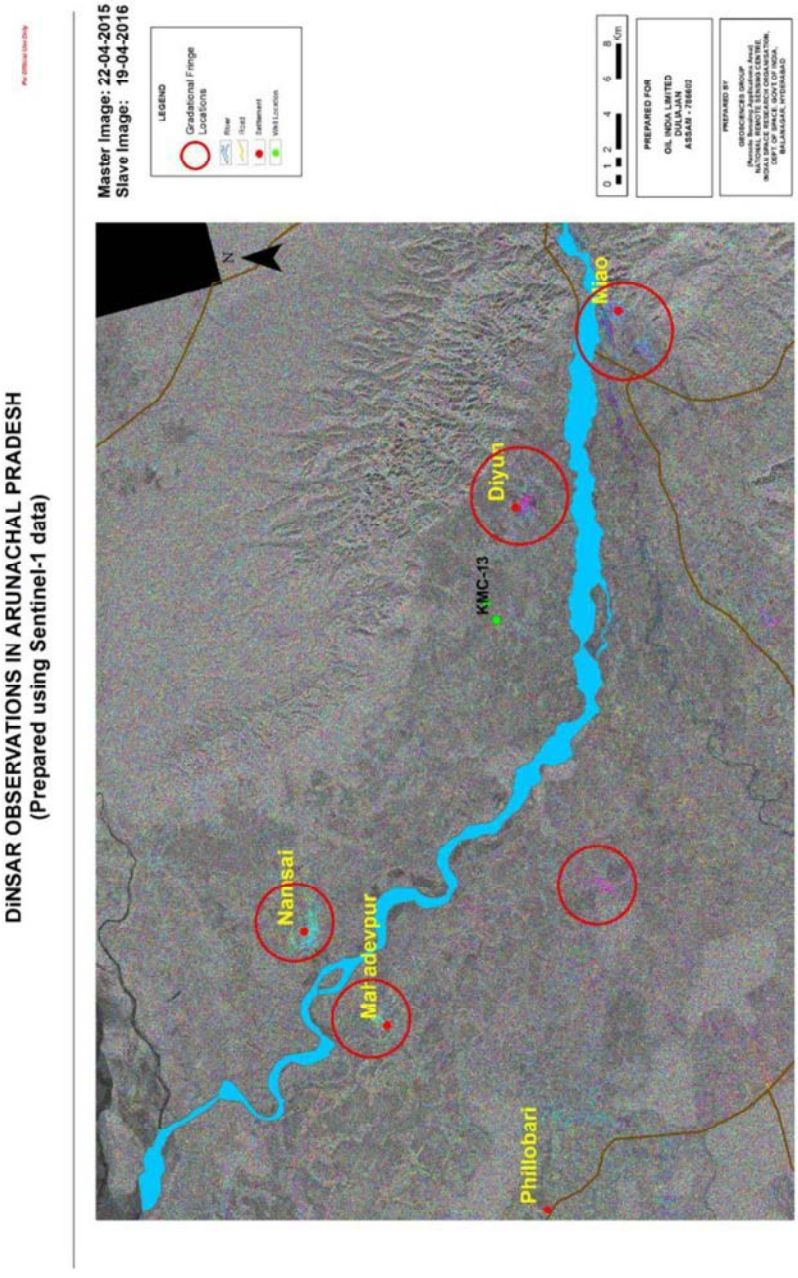

Figure 8. Filtered interferogram in Arunachal Pradesh from Sentinel-1 data. Fringes (red circles) observed in the towns of Mahadevpur Namsai, Diyun and Miao.

CHAPTER VI

FIELD WORK

A field work for verification of the gradational fringe locations as identified in the satellite data analysis were taken up in May, 2019. A total of 16 sites were identified from the satellite data analysis (Figure 9). The main objective of the field study was to find out evidences of land subsidence in these sites as demarcated through InSAR study. The field work was carried out in the OIL's operational areas jointly by the OIL and NRSC team. The following observations were targeted during the field investigation.

1. Sagging of the ground.
2. Cracks opening up from base to top of the building /wall.
3. Tilting/sagging or collapse of the boundary wall.
4. Anomalous pondage on the ground

The observations recorded in the field survey are summarized in table 6.

Table 6: Summary of Field Observations

Longtitude	Latitude	Nearest location	Field observation
95.171	27.485	Chabua	Linear boundary walls observed. No sagging or damage seen. (Figure 10). Another location was within agriculture land away from OIL operations
95.167	27.502		
95.559	27.566	Doom Dooma	No evidence of damage seen.
95.317	27.349	Duliajan	Buildings and other constructions were observed, no damage seen (Figure 11)
95.445	27.486	Makum	Old school building was observed. No damage to construction (Figure 12)
95.704	27.587	Philobari	Forested area away from OIL operations
95.664	27.298	Digboi	An open ground near Digboi surveyed. No sagging or damage to the boundary wall of ground is seen. (Figure 13)
95.616	27.397		
95.149	27.382	Tengakhat	Open fields and boundary walls observed, no evidence of subsidence (Figure 14)
95.278	27.461	Tinsukia	Clustered settlements. No ground deformation observed.
95.343	27.486		

95.864	27.663	Namsai	Away from OIL operations..
96.103	27.556	Near Diyun	Old building surveyed. No evidence of subsidence (Figure 15).
96.196	27.486	South of Miao	Away from OIL operations.
95.883	27.514	20 km west of Diyun	
96.024	27.412	15 km south-west of Diyun	Away from OIL operations..

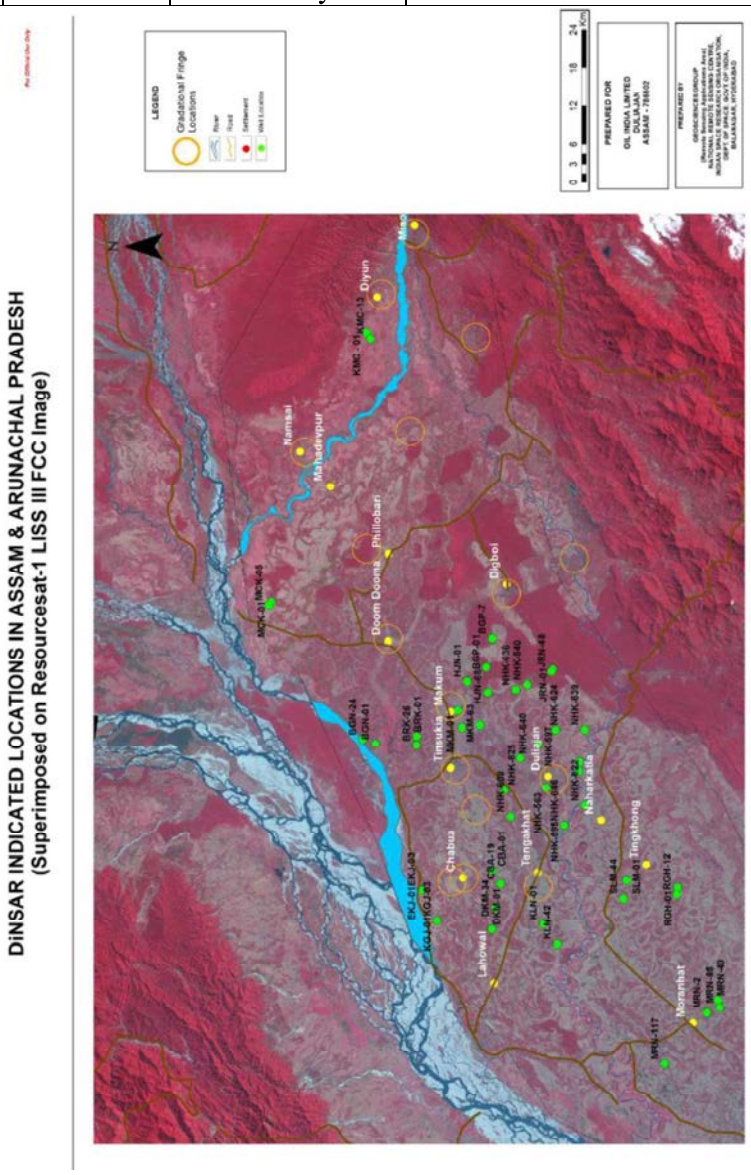

Figure 9. Map showing all the locations where interferometric fringes have developed in Assam and Arunachal Pradesh

Figure 10. A long linear boundary wall in the Chabua town near the ITI building. No cracks in the boundary wall is seen.

Figure 11. A house in Duliajan. No evidence of cracks in the building or in the boundary wall is observed.

Figure 12. Hindi Vidyalaya near Makum railway junction. No cracks in the wall of the school or in the boundary wall are seen.

Figure 13. An open ground near Digboi. No sagging or damage to the boundary wall of ground is seen.

Figure 14. An isolated temple building within a large open land in Tengakhat. No evidences of damage to the boundary wall are observed.

Figure 15. A house near Diyun. No cracks in the house are observed.

There was no evidence of subsidence in the surveyed locations which can be correlated to the interferometry results.

CHAPTER VII

DISCUSSIONS AND CONCLUSIONS

7.1 Discussions

An attempt to identify land subsidence zones in the operational areas of Oil India Limited in Assam and Arunachal Pradesh was made using the differential interferometric technique. A total of 17 master slave pairs of microwave data were processed over a span of 2004 to 2018. Microwave data from C (Envisat and Sentinel-1) and L band (ALOS PALSAR 1&2) were used.

The interferometric analysis could delineate 16 locations where gradational interferometric fringes were seen in Assam and Arunachal Pradesh. However, these fringes are unlike those seen usually in subsidence locations, which are circular and concentric. These locations are mainly in and around townships and urban sprawls where temporal decorrelation is low and coherence is high mainly due to metallic corrugated sheets as rooftops. Therefore it may be possible, that these gradational fringes are artefacts of phase delay caused by terrain condition change or atmospheric effects. Well locations provided by OIL were overlain on these fringe locations. However, it is seen that, though some regions are in vicinity of the well locations, there is no clear spatial correlation of the interferometric fringes and the well locations.

A field survey was undertaken to verify the locations as delineated by interferometry, for probable ground signatures of subsidence. During the fieldwork, any possible damage to anthropogenic structures which are indicative of subsidence was searched. This includes cracks along wall of old constructions, tilting of boundary walls or sagging of grounds. However, it is seen that there are no ground signatures which can be substantially correlated to fringes delineated by differential interferometry.

7.1.1 Limitations

The key limitations of the results obtained are as follows:

i. Considering the precision of DInSAR for different wavelengths, topographic and atmospheric errors, slow subsidence rates may not be detected.

ii. Temporal decorrelation and noise due to adverse land use and land cover may affect DInSAR based detection and monitoring of land subsidence. The given study area is on the floodplain of the Brahmaputra river and is thickly vegetated. Changes in river morphology and associated vegetation pattern over time can cause significant decorrelation between the master and slave image, thus producing a very low coherent output. Under such conditions, subsidence information may not be retrieved.

iii. Verification of the subsidence zones as detected from the interferometric technique is sometimes difficult due to lack of observable signatures of subsidence such as cracks on the ground and damage to anthropogenic structures.

7.2 Conclusions

i. Distinguishable but random gradational fringe patterns are observed in and around towns of Chabua, Duliajan, Tinsukia and Digboi in Assam and Diyun in Arunachal Pradesh.

ii. The locations of fringes show no apparent correlation with the well locations.

iii. Field verifications do not reveal any possible indications of land subsidence in the region.

iv. Gradational fringes as seen are likely artefacts of terrain conditions and atmospheric phase delays.

v. From the above satellite-based scientific study followed by field verifications, it may be deduced that there is no signatures of land subsidence observed due to hydrocarbon extraction in the study areas in Assam and Arunachal Pradesh oil & gas fields of Oil India Limited.

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EMERGENCY RESCUE AND RESPONSE PLAN FOR BAGHJAN - 05

Approved By	*Sri D K Das, RCE (FHQ)*	
Reviewed By	*Sri S K Rai, ED (FHQ-A)*	
Issued By	*Sri S Majumder, CGM (HSE)*	
Prepared By	*Sri R C Das, GM (S&E)*	

1.0 BACKGROUND

Blowout at Baghjan Well No 5

The Well BGN#05 was producing 88000 SCMD of gas with 29 klpd condensate from 3870 m langpar sand since Sep 2015. Workover was planned by G&R in April 2020. As per plan, workover was carried out and it was completed with the setting of retainer packer. On further testing, it was confirmed that tubing head spool it was found leaking. For repairmen of the tubing head spool, the well was killed and cement plug job was carried out. On day the day of the incident on 27th May 2020, the open-ended drill pipe was pulled out from hole from 176 m. BOP was rigged down. While attending WF spool, observed sudden flow of influx. Arrange to shut the well without success as the well went into blowout condition rapidly.

At around 10.30 AM this morning (27/05/2020) the producing well of Baghjan 5 under Baghjan Oilfield of Oil India Limited in Tinsukia district suddenly became very active while work over operations were on.

As a consequence, the ongoing operations had to be immediately suspended and all efforts are being made to so that the well can be brought under control. Further, the Crisis Management Team from ONGCL, has been assisting OIL's efforts to control the well at the earliest. Simultaneously OIL management is trying to contact worldwide well control experts for assistance to control the incident.

All arrangements are being made now to bring the well under control as per plan below:

Adequate water spraying

Taking all adequate safety measures, install BOP (Blow out Preventer)

Efforts have been made to vacate the local residents residing in the vicinity of the well to safe places and arrangements have been made for their fooding and lodging.

Experts from OIL have reached the site and all-out effort are on to control the well.

The workover operations were being carried out by Chartered Hire Rig owned by M/s John Energy under the supervision of OIL.

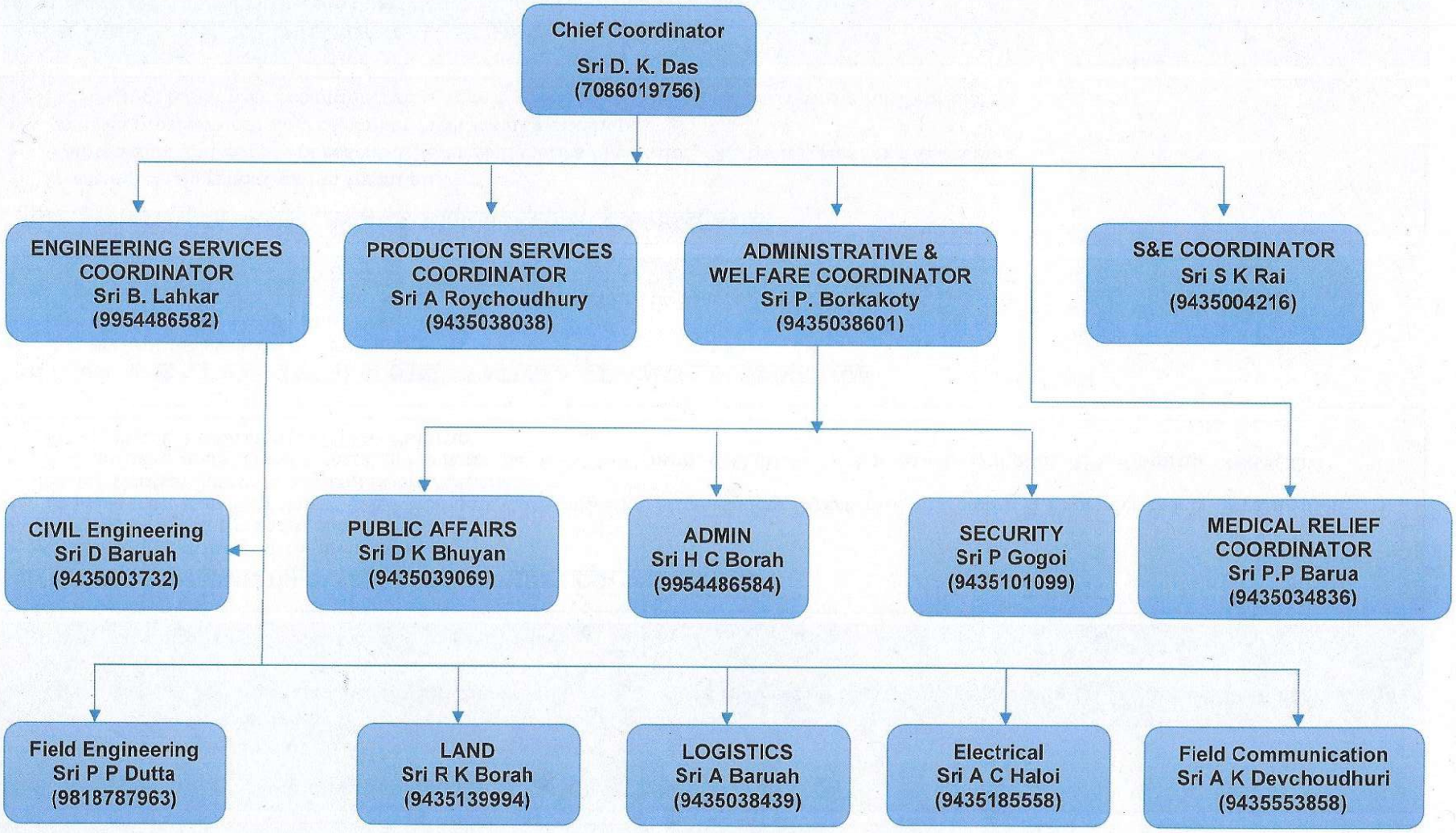
2.0 Site Description

Well No: BGN-5 is situated in the Baghjan area under the Tinsukia district of Assam. The well is approximately 65km from field headquarters of Oil India Limited, Duliajan. The nearest airport is Mohanbari Airport of Dibrugarh, which is around 85 km from the wellsite. The nearest town with railway station is Doomdoma (22Km).

The Site layout plan is described in the next page:


Containment area
Towards EPS
Towards Tinsukia
Co-ordinates of BGN-5: 27°35'46.3"N 95°22'51.2"E
Security check gate -1
Security check gate -2
Baghjan Well No-05
water reservior
Pump
Fire Trailer Pumps
CMT tanks
Emergency Escape Routes
Site Gate

Evacuation Organogram



Sri D. K Das (RCE), (7086019756) CHIEF CO- ORDINATOR

- Declares Crisis/Emergency situations.
- Communicates with CMD / Ministry. State Govt. high officials and releases information's to Press / Mass communications Media.
- Directs main Coordinators as deemed necessary arising out of Crisis situations.

Sri A. Roychoudhury, (9435038038) PRODUCTION SERVICES CO-ORDINATOR

- Assesses damages to any PSS, GMS, or O&GPS installations.
- Arranges Isolation, Salvaging of the affected installation.
- Coordinates with Asset Managers for services related to repairs and restoration of production and supply of Crude Oil, Natural Gas and LPG.
- Ensures uninterrupted supply of oil and gas to customers.

Sri S. K Rai, (9435004216) SAFETY & ENVIROMENT CO- ORDINATOR

- Coordinates for fire control measures.
- To liaise between the main coordinators.
- To liaise with statutory Safety & Environment authorities i.e. Mines Safety Directorate, Petroleum & Explosive Safety Organization, State/ Central Pollution Control Board, OISD etc.
- To liaise with members of mutual aid scheme i.e. BVFCL- Namup, IOC (AOD) DIgboi, AGCL- Duliajan, APL- Namrup, NEEPCO- Kathalguri, CIL-Margherita NTPS- Namrup.

Sri P. Borkatoky, (9435038601) ADMINISTRATIVE & WELFARE CO- ORDINATOR

- Coordinates for security arrangements.
- Liaises with Police and District Civic authorities.
- Co-ordinates with GM (MS) & DGM(ER) for Rescue, Shelter and Medical relief operations.
- Informs the voluntary organizations to assist for rescue and relief operations & Public-affairs.

Sri B. Lahkar, (9954486582) ENGINEERING SERVICES CO-ORDINATOR

- Provision of emergency communication.
- Maintenance and supply of essential services facilities like Water, Electricity, Gas, and Transport.
- Ensures provision of material, repair facilities at workshop.
- Provision of temporary accommodation, repair / Restore roads & Bridges, removal of Debris etc.

Sri P. P Barua, (9435034836) MEDICAL RELIEF CO- ORDINATOR

- Organizes First Aid at the site of incidence.
- Arranges Ambulance Services.
- Medical relief camp in Oil Hospital and arranges extended services under Mutual aid scheme with the Neighboring Industries and Civil Hospitals.

Onsite Nodal Officers

Sl. No.	Department/ Section	Name	Mobile No.
1	Fire Service	Sri R K Singh	8638942303
2	Production	Sri Partha Pratim Saikia	9435131636
3	Safety	Sri Ramesh Chandra Das	9435005831
4	Civil Engineering	Sri Jiten Gogoi	9435038675
		Sri Himangshu Bhuyan	8876809660
5	Gas Management	Sri Purbajyoti Bordoloi	9435139100
6	Administrative	Sri Alakesh Bora	8811028555
7	Electrical	Sri Lokrak Nilling	9435392974
8	Transport	Sri Bhusan Singh	8638307991
9	Medical		
10	Drilling	Sri Ashok Borgohain	8638817529

Technical Team to coordinate with OIL-CMT, ONGCL-CMT & M/s ALERT for Capping the Well

Sl. No.	Name	Designation	Mobile No.
1	Dr. P. Chandrasekaran	D (E&D)	9953183363
2	Sri Anfor Ali Haque	CGM (PE&S)	9435039043
3	Sri Sanjay Verma	CGM (OGPS)	9435005053
4	Sri Partha Pratim Dutta	GM (FE) I/C	9818787963
5	Sri Jagannath Chetia & Workshop Team	GM (PR)	9435392409

Team for Evacuation, Relief-camp, & Coordination with Media

Sl. No.	Name	Designation	Mobile No.
1	Sri Biswajit Roy	D (HR&BD)	9899877377
2	Sri Prasanta Borkakoty	ED (HR&A)	9435038601
3	Sri Tridiv Hazarika	DGM (PA)	9435005667

EVACUATION PLAN FOR BGN-05

1.0 EVACUATION

1. Facilitate rapid and effective evacuation of personnel engaged in well-site through any of the two roads.
2. Immediate notification to be provided to the site control room.
3. Mobilization of rescue and medical team to wellsite.
4. All evacuated person to report to First –Aid room inside EPS, Baghjan.

2.0 RESCUE

1. Vehicles provided by administration department for rescue of public into safe zone.
2. Co-ordination and mobilization of Mutual-Aid partners.
3. Public Affairs department to co-ordinate with public and provide essential services.

3.0 ISOLATION AND SECURITY

1. Demarcation of the area and restricted entry to be facilitated.
2. Peripheral monitoring to be established.
3. Facilitate the movement of emergency vehicles.

4.0 RESPONSIBILITY

PUBLIC AFFAIRS DEPARTMENT

Public Affairs department to co-ordinate with public and provide essential services.

ADMINISTRATION DEPARTMENT

1. Facilitate rapid and effective evacuation of personnel engaged in well-site through any of the two roads.
2. Vehicles provided by administration department for rescue of public into safe zone.

S&E

Co-ordination and mobilization of Mutual-Aid partners.

LOGISITICS

1. Facilitate rapid and effective evacuation of personnel engaged in well-site through any of the two roads.

	2.Vehicles provided by logistics department for rescue of public into safe zone.
CMT 1. Facilitate rapid and effective evacuation of personnel engaged in well-site through any of the two roads. 2. Mobilization of rescue and medical team to wellsite	**BAGHJAN CONTROL ROOM** 1. Facilitate rapid and effective evacuation of personnel engaged in well-site through any of the two roads. 2. Mobilization of rescue and medical team to wellsite. 3. All evacuated person to report to First –Aid room inside EPS, Baghjan.
DISASTER CONTROL ROOM Liaison with all the on-site coordinators & other facilities.	**AMBULANCE** Facilitate rapid and effective evacuation of personnel engaged in well-site through any of the two roads.
ASSEMBLY POINT 1 Assemble area during emergency/ safe place to assemble before evacuation.	**ASSEMBLY POINT 2** Assemble area during emergency/ safe place to assemble before evacuation.
SECURITY 1. Demarcation of the area and restricted entry to be facilitated. 2. Peripheral monitoring to be established. 3. Facilitate the movement of emergency vehicles. 4. Prohibit any unauthorized entry & keep account of all personnel related to the emergency.	**MUTUAL AID** Assist with their resources during the emergency.

3.0 Populations Susceptible to Potential Emergency Conditions

3.1 Employees, Visitors, and Contractors on the Mine Site

Although continuous uncontrolled gas release is a very dangerous condition to be present in, all the efforts of company and contractor personnel are focused into closing and restoration of the well. The task at hand demands many hazardous and dangerous working situation which needs to be taken up in a war footing mode. Two security gates have been established to monitor the inflow and outflow of workforce and also control restricted and necessary flow of personnel and vehicles. Preliminary estimate of personnel working at site indicate that up to 30 individuals may be present on site at any point of the day. (thc figure is approximate).

3.2 Populations Off the Mine Site

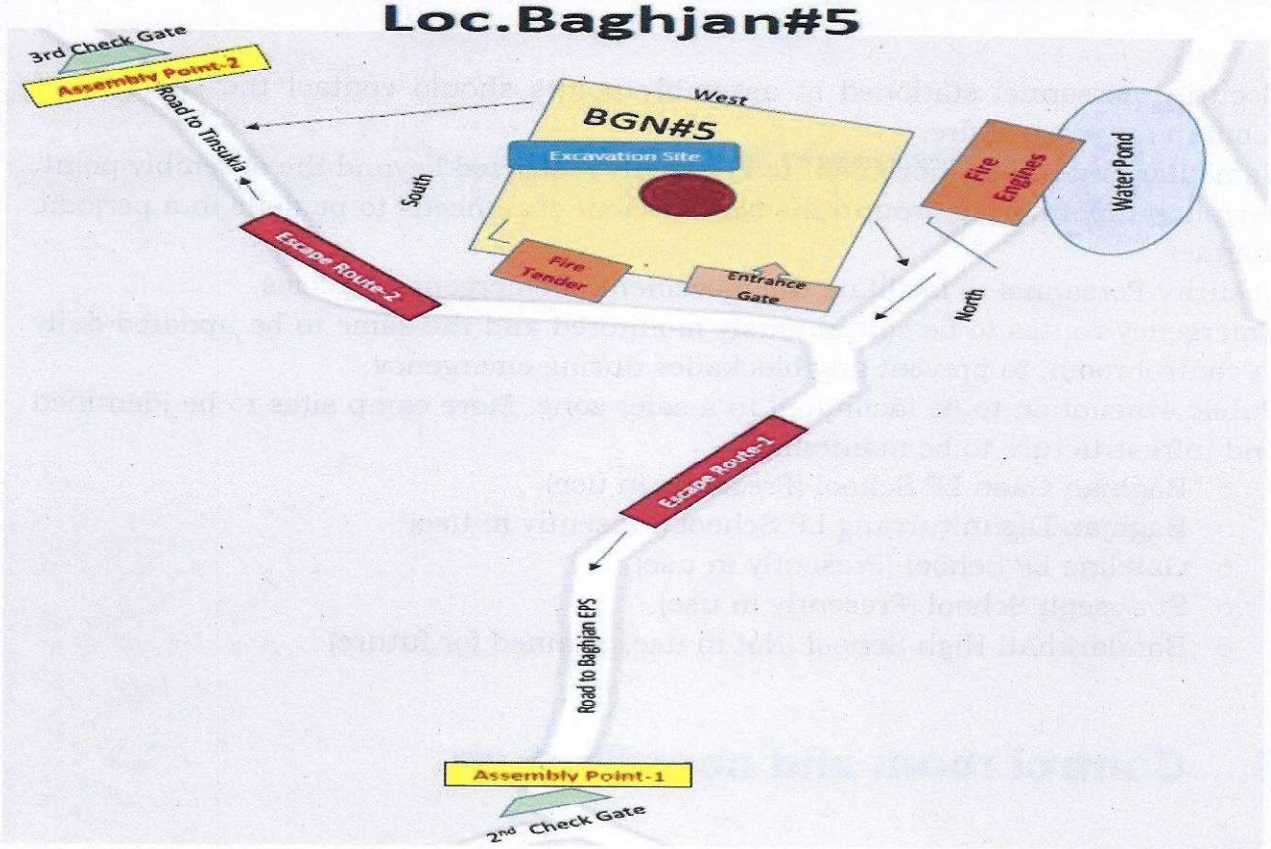
Offsite populations susceptible to potential emergency conditions include the village communities of Baghjan and Magori-Motapung Beel area. On initial emergency response, an area of 1.5km around the site has already been evacuated and shifted to 3 camps that were established. Daily basic amenities are being provided at the 3 relief camps.

4.0 Scope

4.1 Escape route demarcation and communication.
4.2 Assembly point and evacuation.
4.3 Control room and coordinators.
4.4 Restoration.

4.1 Escape route demarcation and communication.

Loc.Baghjan#5



- Two Nos. of exit routes have been identified as shown in the above picture.
- Dedicated assembly points on both the exit routes needs to be properly demarcated for easy visibility.
- Every assembly point shall be manned at all times by security personnel with a means of communication to site control room.
- Ambulance with First Aid to be made available at both the demarcated assembly points.
- An emergency vehicle needs to be standby at all times at the designated assembly points.
- In case of fire, the same needs to be communicated to the site control room for further necessary action with FLP walkie-talkie.
- The personnel from the south-west assembly point to be transferred to Limbuguri T.E. Hospital (5.31 Km from well site)
- The personnel from the east assembly point to be transferred to First-Aid camp at Baghjan EPS. (As per Annexure-I)
- Mutual Aid partners to be identified and their emergency vehicles (Ambulance and Fire Brigade) to be standby in pre identified locations till the control of the blowout. (As per Annexure-I)

4.2 Assembly point and evacuation

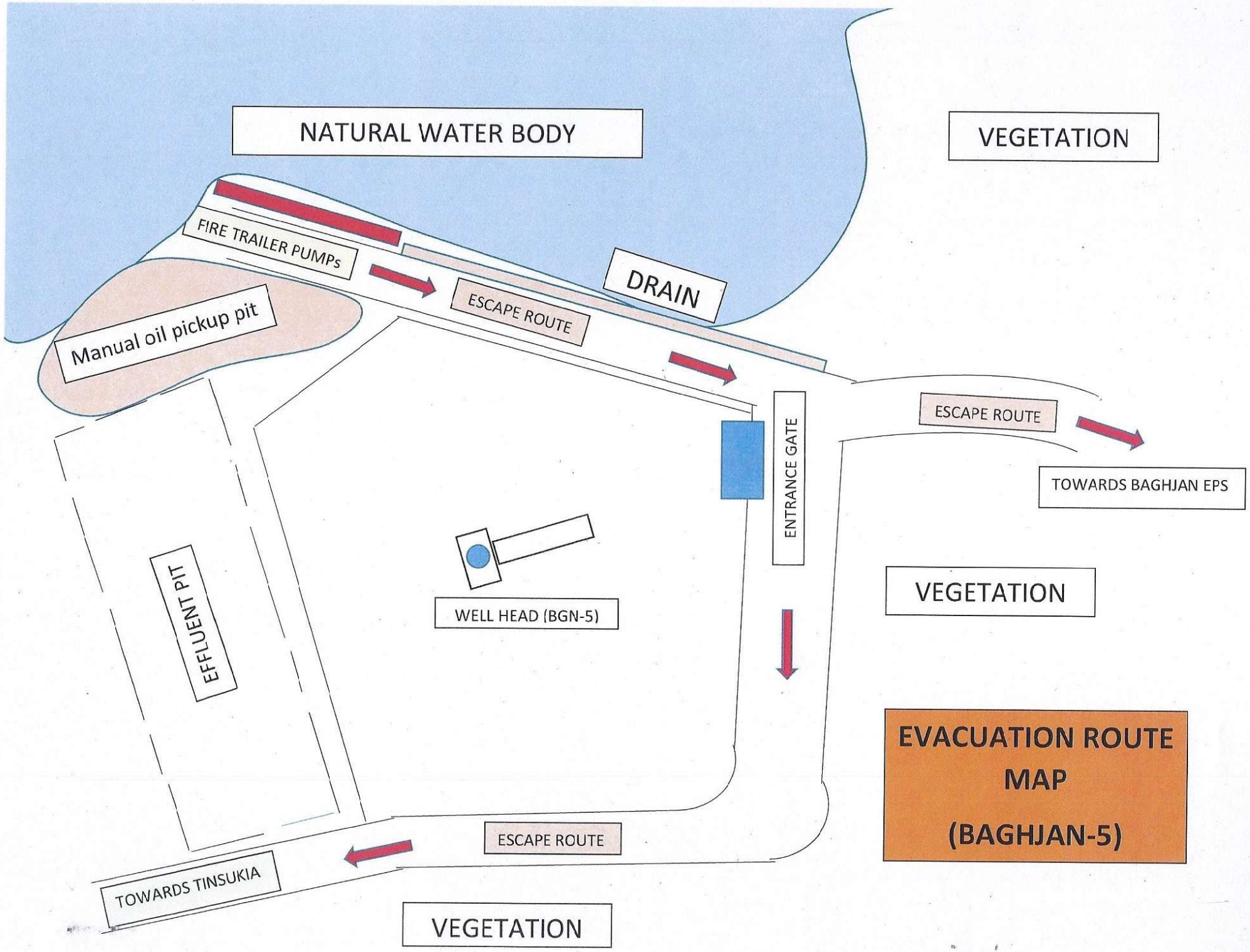
- Security personnel stationed at assembly points should contact the site control room in any case of fire.
- Vehicular and public movement to be strictly restricted beyond the assembly point.
- Peripheral monitoring around the containment zone needs to be done in a periodic manner.
- Security Personnel to facilitate the movement of emergency vehicles.
- Emergency routes to be continuously monitored and the same to be updated daily in control room, to prevent any blockades during emergency.
- Public evacuation to be facilitated to a safer zone. More camp sites to be identified and infrastructure to be maintained.
    - Baghjan Gaon LP School (Presently in use)
    - Baghjan Dighulturrang LP School (Presently in use)
    - Gateline LP School (Presently in use)
    - St Joseph School (Presently in use)
    - Bandarkhati High School (Not in use, planned for future)

4.3 Control room and coordinators

- In case of fire, the site coordinator will mobilize a rescue and search team to site to evacuate the personnel working at site.
- Public containment zone to be extended after assessment.
- Strict surveillance and monitoring.
- Co-ordination and mobilization of mutual aid partners for necessary rescue and firefighting.
- Maintaining a list of infrastructure to be mobilized and utilized in any fire situation. The same to be prepared in correlation with Administration and PR Department.
- Additional measures to be taken by security personnel to be identified.
- Fire-fighting and environmental assessment to be monitored on a periodic manner.

4.4 Restoration

- Public Affairs department to establish measures to mitigate public issues.
- Administration to liaise with District administration and provide necessary support.


NATURAL WATER BODY
VEGETATION
FIRE TRAILER PUMPs
DRAIN
ESCAPE ROUTE
Manual oil pickup pit
ESCAPE ROUTE
TOWARDS BAGHJAN EPS
ENTRANCE GATE
EFFLUENT PIT
WELL HEAD (BGN-5)
VEGETATION
EVACUATION ROUTE MAP (BAGHJAN-5)
ESCAPE ROUTE
TOWARDS TINSUKIA
VEGETATION

ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्यम)
Oil India Limited
(A Government of India Enterprise)

ENVIRONMENT POLICY

Oil India Limited is guided by its Core purpose of "being a fastest growing energy company with global presence and providing value to all stake holders". Currently as an E&P company, OIL has a pan India presence with overseas foot prints.

In alignment with the core purpose, OIL is deeply committed to the Preservation of Environment & Ecology, Sustainable Development, Enrichment of the quality of life of Employees, Customers and the Community around its operational areas.

In pursuance of the above mentioned policy OIL is committed to:

1. Ensure an environment friendly work place in all our operations.

2. Comply with relevant Environmental Laws and Regulations in OIL's operations, prescribed by the statutory bodies..

3. Follow a systemic approach to Environmental Management Plan in order to achieve continual performance improvement.

4. Adopt technologies that conserve energy, prevent pollution, maximize recycling, reduce wastes, discharge and emissions.

5. Develop green belts and plant trees in and around OIL's operational areas in harmony with nature.

6. Protect aesthetic, cultural, social patterns and historical characteristics in and around OIL's operational areas.

7. Promote a culture among OIL employees, contractors and all the stake holders associated with OIL for shared responsibility towards environmental protection.

8. Promote and nurture a healthy, safe & productive environment in its area of operations.

(S.RATH)
DIRECTOR (OPERATIONS)

Effective Date: 25th April, 2012
Approved in the 420th Board Meeting

ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्यम)
Oil India Limited
(A Government of India Enterprise)

ऑयल इंडिया लिमिटेड की पर्यावरण नीति

ऑयल इंडिया लिमिटेड का प्रमुख उद्देश्य "त्वरित गति से उभरती एक विश्वव्यापी ऊर्जा कंपनी बनना और अपने शेयरधारकों के हितों को पूरा करना है " । वर्तमान में एक ई एंड पी कंपनी के रूप में इसके कार्य क्षेत्र का प्रसार समग्र भारत और विदेश के कई देशों में फैला हुआ है ।

ऑयल इंडिया लिमिटेड अपने मुख्य कार्य के साथ पर्यावरण और परिस्थिति , स्थाई विकास और अपने कार्मिकों , ग्राहकों और प्रचालन क्षेत्र के मूल निवासियों के जीवन स्तर को अनवरत उन्नत करने के लिए प्रतिबद्ध है ।

उपरोक्त नीति के कार्यान्वयन में हम प्रतिबद्ध हैं कि :-

1. हमारे सभी प्रचालनों में पर्यावरण हितैषी कार्यस्थल होगा ।
2. सांविधिक निकायों द्वारा निर्धारित पर्यावरण नियमों और नीतियों को सभी प्रचालन में कार्यान्वित किया जाएगा ।
3. अनवरत सुधार के लिये पर्यावरण प्रबंधन की एक सुचिन्तित दृष्टि का अनुसरण किया जायेगा ।
4. ऐसी प्रौद्यौगिकी का प्रयोग किया जायेगा जिससे ऊर्जा का संरक्षण, प्रदूषण -नियंत्रण, रीसाइकिल को अधिकतम और कचरे, उत्सर्जन और वाहि:स्त्राव को कम किया जा सके ।
5. प्रकृति से समीपता के लिये ऑयल के प्रचालन क्षेत्रों में हरित भूमि का विकास और सघन वृक्षारोपण किया जाएगा ।
6. ऑयल के प्रचालन क्षेत्रों में सौन्दर्य, संस्कृति, सामाजिकन्यास और ऐतिहासिकता की रक्षा की जायेगी ।
7. ऑयल के कार्मिकों, ठीकेदारों और ऑयल से सम्बन्धित सभी हिस्सेदारों के बीच पर्यावरण - परिरक्षण की संस्कृति का संचार किया जाएगा ।
8. ऑयल इंडिया लिमिटेड अपने प्रचालन के प्रत्येक क्षेत्र में एक स्वस्थ, सुरक्षित, उत्पादक और जीवनप्रद वातावरण के लिए प्रतिबद्ध है ।

एस रथ

(एस. रथ)
निदेशक (प्रचालन)

प्रभावित तिथि : 25 अप्रैल, 2012
420 वी बोर्ड बैठक में स्वीकृत

ऑयल इंडिया लिमिटेड

Oil India Limited

পরিবেশ নীতি

অয়েল ইন্ডিয়া লিমিটেড, তার মুখ্য নীতি - "সমগ্র বিশ্বে সগৌরবে প্রসারিত দ্রুত বিকাশমান উর্জা উৎপাদক সংস্থা ও সংশ্লীষ্ট অংশীদারদের জন্য মূল্য সঞ্চারক প্রতিষ্ঠান"-এর ভিত্তিতে পরিচালিত। বর্তমানে অয়েল ইন্ডিয়া লিমিটেড একটি অনুসন্ধানী ও উৎপাদনী (Exploration and Production Company)সংস্থা হিসেবে সমগ্র ভারত জুড়ে তথা সমুদ্র পারেও তার পদচিহ্ন রেখেছে।

অয়েল ইন্ডিয়া লিমিটেড তার মুখ্য উদ্দেশ্যগুলির সাথে সঙ্গতি রেখেই তার প্রতিটি কর্মী, ঠিকাদার ও সম্পদের সুরক্ষার প্রশ্নে দায়বদ্ধ। অয়েল ইন্ডিয়া লিমিটেড নিশ্চিতভাবে মনে করে যে সুরক্ষা পরিচালন ব্যাবস্থা ও তার সুফলদায়ক রূপায়ণ সংস্থার ব্যাবসা ও কর্মকান্ডের অবিচ্ছেদ্য অংশ।

এই ঘোষণার পরিপ্রেক্ষিতেই অয়েল ইন্ডিয়া লিমিটেড-এর **সুরক্ষা নীতি**'র লক্ষ্যগুলি হ'ল :

১. আমাদের সমস্ত কার্যকরী ক্ষেত্রগুলিকে **পরিবেশ বান্ধব কর্ম স্থান** হিসেবে গড়ে তোলা।

২. বিধিবদ্ধ সংস্থাগুলির দ্বারা বিভিন্ন সময়ে জারী করা পরিবেশ সংক্রান্ত আইন, নিয়ম, নিয়ন্ত্রন ও প্রায়োগিক মানদন্ড/সংহিতা সমুহের সাথে সামঞ্জস্য রক্ষা করে চলা।

৩. পরিবেশনার ক্রমাগত উৎকর্ষ অর্জনের লক্ষ্যে পরিবেশ পরিচালন পরিকল্পনার ক্ষেত্রে সুব্যাবস্থিত দৃষ্টিভঙ্গী অনুসরণ করা।

৪. শক্তি সংরক্ষণকারী, দুষণ প্রতিরোধি, পুর্ণব্যাবহার বৃদ্ধিকারী, ন্যুনতম আবর্জনা, বর্জ্য, জঞ্জাল নিষ্কাশি প্রযুক্তিকে গ্রহন।

৫. পরিবেশের সাথে সামঞ্জস্যপূর্ণভাবে অয়েল ইন্ডিয়া লিমিটেড-এর উৎপাদনী ক্ষেত্রগুলির আসেপাশে হরিৎ বলয় গড়ে তোলা ও বৃক্ষরোপন ।

৬. অয়েল ইন্ডিয়া লিমিটেড-এর উৎপাদনী ক্ষেত্রগুলির পরিপার্শ্বের নান্দনিক, সাংস্কৃতিক, সামাজিক ও ঐতিহাস বৈশিষ্ট্য রক্ষা করা ।

৭. অয়েল ইন্ডিয়া লিমিটেড-এর কর্মী, ঠিকাদার এবং কোম্পানীর সাথে জড়িত সকল পক্ষের মধ্যে পরিবেশ সুরক্ষা সংক্রান্ত দায়িত্ববোধের প্রসারে প্রয়াস চালিয়ে যাওয়া।

৮. উৎপাদনী ক্ষেত্রগুলিতে সুস্থ, সুরক্ষিত, উৎপাদনশীল পরিবেশ পরিচর্য্যা ও বিকাশ।

(স. রথ)
নির্দেশক (কর্মধারা বিভাগ)

প্রযোজ্য তারিখ : ২৫শে এপ্রিল, ২০১২ থেকে
পর্ষদের ৪২০তম সভায় অনুমোদিত

ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्यम)
Oil India Limited
(A Government of India Enterprise)

পৰিবেশ নীতি

অইল ইণ্ডিয়া লিমিটেডৰ মূল লক্ষ্য " বিশ্বজনীন উপস্থিতিৰে , অংশীদাৰসকলক সদায় মহত্ব প্ৰদান কৰা দ্ৰুততম গতিত বিকশিত শক্তি প্ৰতিষ্ঠান " ৰূপে নিজক গঢ়ি তোলা । ই এণ্ড পি খণ্ডৰ প্ৰতিষ্ঠান হিচাবে বৰ্ত্তমান সমগ্ৰ ভাৰতবৰ্ষতে অইল ইণ্ডিয়াৰ উপস্থিতি আছে আৰু বিদেশৰ মাটিতো ই পদক্ষেপ ৰাখিছে ।

মূল লক্ষ্যৰ সৈতে ৰজিতা খুৱাই পৰিবেশ আৰু জীৱজগতৰ সংৰক্ষণ , বৰ্ত্তনীয় উন্নয়ন , কৰ্মচাৰী আৰু উপভোক্তাৰ লগতে পৰিচালনা ক্ষেত্ৰৰ চৌদিশে থকা জনসাধাৰণৰ জীৱনৰ মান চহকী কৰাৰ প্ৰতিও অইল ইণ্ডিয়া লিমিটেড গভীৰ ভাৱে দায়বদ্ধ ।

তাৰে পৰিপ্ৰেক্ষিতত নিম্নলিখিত ক্ষেত্ৰসমূহত কাম কৰিবলৈ অইল ইণ্ডিয়া অঙ্গীকাৰবদ্ধ :-

১) আমাৰ সকলো কৰ্মক্ষেত্ৰতে পৰিবেশপন্থী বাতাবৰণ সুনিশ্চিত কৰা ।

২) সাংবিধানিক সন্থাসমূহে নিৰূপণ কৰি দিয়া মতে অইলৰ সকলো কাম -কাজতে পৰিবেশ বিষয়ক আইন আৰু নীতি - নিৰ্দ্দশনা মানি চলা ।

৩) কাৰ্য্যকাৰণত অহৰহ উন্নয়ন আনিবৰ কাৰণে পৰিবেশ প্ৰবন্ধন পৰিকল্পনা সুব্যৱস্থিত ভাৱে মানি চলা ।

৪) এনে প্ৰযুক্তি প্ৰয়োগ কৰা যাৰ দ্বাৰা পৰিবেশৰ সংৰক্ষণ হয় , প্ৰদূষণত বাধা জন্মে , সৰ্ব্বোচ্চ পৰিমাণৰ ৰিচাইক্লিং হয় ,আৱৰ্জনাৰ পৰিমাণ আৰু নিৰ্গমণ হ্ৰাস হয় ।

৫) প্ৰকৃতিৰ সৈতে সামঞ্জস্য ৰাখি অইলৰ কৰ্মাঞ্চলৰ ভিতৰে - বাহিৰে সেউজীয়া বনানী গঢ়ি তোলা আৰু বৃক্ষ ৰোপন কৰা ।

৬) অইল কৰ্মাঞ্চলৰ ভিতৰৰ আৰু বাহিৰৰ নান্দনিক, সাংস্কৃতিক , সামাজিক আৰু ঐতিহাসিক বৈশিষ্ট্য অক্ষুন্ন ৰখা ।

৭) অইলৰ কৰ্মচাৰীৰ লগতে অইলৰ সৈতে জড়িত সকলো ঠিকাদাৰ আৰু অংশীদাৰৰ মাজত পৰিবেশ সংৰক্ষণৰ দায়িত্ব কান্ধ পাতি লোৱাৰ বাবে এক সংস্কৃতি গঢ় দিয়া ।

৮) কৰ্মাঞ্চলত স্বাস্থ্যকৰ , সুৰক্ষিত আৰু উৎপাদনমুখী পৰিবেশ গঢ়ি তুলি তাৰ প্ৰতিপালন কৰা ।

এহ ৰথ

(এহ ৰথ)
সঞ্চালক (সঞ্চালন)

কাৰ্য্যকৰীকৰণৰ তিথি - ২৫ এপ্ৰিল,২০১২
৪২০নং সঞ্চালক পৰিষদৰ বৈঠকত গৃহীত

ऑयल इंडिया लिमिटेड

Oil India Limited

ఆయిల్ ఇండియా లిమిటెడ్

పర్యావరణ నియమావళి

ఆయిల్ ఇండియా యొక్క ముఖ్య ఉద్యేశ్యము ప్రపంచ వ్యాప్తంగా త్వరితగతిని అభివృద్ధి చెందే ఎనర్జీ కంపెనీగా వుండాలనేది మరియు వాటా దారులకు విలువ ఇచ్చేదిగాను, ప్రస్తుతము ఒక పర్యావరణ మరియు పరిరక్షణ కంపెనీలాగా ఈ యొక్క కంపెనీ కార్యక్షేత్రంలో ప్రపంచ దేశాల దృష్టిలో వున్నది. కంపెనీ యొక్క ముఖ్య ఉద్యేశ్యము ప్రకారము ఆయిల్ కంపెనీ పరిధిలోని వాతావరణము, పర్యావరణము, అభివృద్ధి ఉ ద్యోగస్తుల, ఖాతాదారుల యొక్క జీవిత విలువలను కాపాడుట అయివున్నది. పైన తెలిపిన నీయమావళి ప్రకారము మేము ఈ క్రింది విధముగా చేయుటకు నిశ్చయముగా వున్నాము.

1. స్నేహపూర్వక వాతావరణములో ఉద్యోగస్తులు వుండేటట్లు చూచెదము.
2. ఆయిల్ ఇండియా కార్యాలయములో పని జరిగే చోట చట్టప్రకారము వాతావరణ మరియు పర్యావరణ చట్టములు అమలు చేయబడును.
3. పర్యావరణ చట్టములను దృష్టిలో వుంచి కంపెనీ యొక్క అభివృద్ధికి తోడ్పడ గలవారము.
4. భావితరములలో ఉపయోగించే సాంకేతిక విజ్ఞానము ద్వారా పర్యావరణ పరిరక్షణ, చెత్త చెదారము తగ్గించుట మరియు వాతావరణ కాలుష్యము లేకుండా చేయుట.
5. ప్రకృతి మరియు ఆయిల్ పర్యావరణ పరిరక్షించుటకు కంపెనీ కార్యకలాపములు జరుగు ప్రదేశములో పచ్చదనము, పరిశుభ్రత కలుగజేయుటకు నిర్ణయము.
6. కంపెనీ కార్యకలాపములు జరుగు ప్రదేశములలో సహజ సౌందర్యము కోల్పోకుండా, చారిత్రక కట్టడములు ఏమైన వున్నచో వాటి పరిరక్షణ కూడా చూచుటకు నిర్ణయము.
7. ఆయిల్ ఇండియా లిమిటెడ్ ఉద్యోగస్తులు, కాంట్రాక్టర్ మరియు వాటాదారుల మధ్య పర్యావరణ పరిరక్షణ సంస్కృతికి దోహదపడు నిర్ణయము.
8. ఆయిల్ ఇండియా లిమిటెడ్ పరిధిలోని కార్యకలాపములు జరుగు ప్రదేశములలో ఆరోగ్యము, పరిశు భ్రత, పరిరక్షణ చేయుటకు కృతనిశ్చయముతో వున్నది.

ఎస్.రాత్
డైరెక్టర్ ఆపరేషన్సు

ఈ నీయమావళి 25-04-2012 నుండి అమలులో వున్నది.
420 బోర్డు సమావేశములో సభ్యుల యొక్క ఆమోదము పొందినది.

ଅଏଲ୍ ଇଣ୍ଡିଆ ଲିମିଟେଡ

ପରିବେଶ ନୀତି

ଅଏଲ୍ ଇଣ୍ଡିଆ ଲିମିଟେଡ ତୈଳ ସନ୍ଧାନ ଏକ ଉତ୍ପାଦନ କରୁଥିବା କମ୍ପାନୀ ଭାବେ କେବଳ ଭାରତ ନୁହେଁ ଭାରତ ବାହାରେ ମଧ୍ୟ ନିଜର ସ୍ଥିତି ବଜାୟ ରଖିଛି । ବିଶ୍ୱର ଆଦୃତ ଲାଭ କରିଥିବା ଏକ ଦ୍ରୁତ ବିକାଶୋନ୍ମୁଖୀ ଶକ୍ତି କମ୍ପାନୀ ଭାବେ ଏହା ବେଶ ପରିଚିତ । ଏହି ସଂସ୍ଥା ମୂଲ୍ୟ ଭିତ୍ତିକ ଲାଭ ପ୍ରଦାନକାରୀ ସଂସ୍ଥା ଭାବେ ନିଜକୁ ପ୍ରତିଷ୍ଠିତ କରିପାରିଛି ।

ଏହି ତୈଳ କମ୍ପାନୀ ନିଜର ଆଭିମୁଖ୍ୟ ଚରିତାର୍ଥ କରିବା ସଂଗେ ସଂଗେ ପରିବେଶ ଓ ପରିସ୍ଥିତିର ସୁରକ୍ଷା, ସଂରକ୍ଷିତ ବିକାଶ, କର୍ମଚାରୀମାନଙ୍କର ଗୁଣାତ୍ମକ ମାନର ବୃଦ୍ଧି ତଥା ଉପଭୋକ୍ତା ଏବଂ କମ୍ପାନୀ କାର୍ଯ୍ୟ କରୁଥିବା ନିକଟବର୍ତ୍ତୀ ଅଞ୍ଚଳର ସର୍ବାଙ୍ଗୀଣ ବିକାଶ ପାଇଁ ପ୍ରତିଶ୍ରୁତି ବଦ୍ଧ ।

ଉପରୋକ୍ତ ଆଭିମୁଖ୍ୟକୁ ନେଇ ତୈଳ କମ୍ପାନୀର ଯୋଜନାବଦ୍ଧ କାର୍ଯ୍ୟ ହେଲା ।

୧. କାର୍ଯ୍ୟରତ ସମସ୍ତ ସ୍ଥାନରେ ପରିବେଶର ମାନରକ୍ଷା କରିବା ପାଇଁ ଅଙ୍ଗୀକାରବଦ୍ଧ ।

୨. ଅଏଲ୍ ଇଣ୍ଡିଆ ଲିମିଟେଡ କାମ କରୁଥିବା ସ୍ଥାନରେ ପରିବେଶ ସଂପର୍କିତ ସମସ୍ତ ନୀତି ନିୟମ ଏବଂ ଆନୁସଙ୍ଗିକ ନିର୍ଦ୍ଦେଶ ପାଳନ କରିଥାଏ ।

୩. ଏହାର କାର୍ଯ୍ୟଦକ୍ଷତା ବୃଦ୍ଧିପାଇଁ ପରିବେଶ ପରିଚାଳନ ଏକ ଦୀର୍ଘମିଆଦି ଯୋଜନାବଦ୍ଧ କାର୍ଯ୍ୟକ୍ରମ ସ୍ଥିରୀକୃତ କରିଛି ।

୪. ଏହି କମ୍ପାନୀ ଶକ୍ତି ସଂରକ୍ଷଣ, ପ୍ରଦୂଷଣମୁକ୍ତ, ପୁନଃପୌନିକ ବ୍ୟବହାର ଉପଯୋଗୀ, କ୍ଷତି କମାଇବା, ପରିତ୍ୟକ୍ତ ପଦାର୍ଥ ନିର୍ଗତ ଏବଂ ବାଷ୍ପ ନିଷ୍କାସନ ସଂପର୍କରେ ଅତ୍ୟାଧୁନିକ ବୈଷୟିକ ଜ୍ଞାନ ବ୍ୟବହାର କରୁଅଛି ।

୫. ଉକ୍ତ କମ୍ପାନୀ କାର୍ଯ୍ୟକରୁଥିବା ସ୍ଥାନ ମାନଙ୍କରେ ସବୁଜ ବଳୟର ବିକାଶ ତଥା ପ୍ରକୃତି ସମରସ ପରିବେଶ ନିର୍ମାଣ ପାଇଁ ଯତ୍ନବାନ୍ ।

୬. ତୈଳ କମ୍ପାନୀ କାର୍ଯ୍ୟ କରୁଥିବା ସ୍ଥାନର ଐତିହ୍ୟ, ସାଂସ୍କୃତିକ ଜୀବନ, ସାମାଜିକ ପରଂପରାକୁ ଉଜ୍ଜୀବିତ ରଖିବାରେ ଚେଷ୍ଟିତ ।

୭. ଏହି କମ୍ପାନୀରେ କାର୍ଯ୍ୟକରୁଥିବା କର୍ମଚାରୀ ମାନଙ୍କର କାର୍ଯ୍ୟଶୈଳୀର ଏକ ସ୍ୱତନ୍ତ୍ର ପରଂପରା ସୃଷ୍ଟ କରାଯିବା ସହିତ, ଠିକାଦାର ଏବଂ ମାଲିକାନା ସଂସ୍ଥାମାନଙ୍କର ପରିବେଶ ସଂରକ୍ଷଣ ପାଇଁ ଉଉର ଦାୟିତ୍ୱ ଗ୍ରହଣ କରିଛି ।

୮. ଏକ ସ୍ୱାସ୍ଥ୍ୟ ଉପଯୋଗୀ, ସୁନ୍ଦର, ସୁରକ୍ଷିତ ଏବଂ କାର୍ଯ୍ୟକୁଶଳୀ ପରିବେଶ ସୃଷ୍ଟି କରିବା ପାଇଁ ଅଏଲ ଇଣ୍ଡିଆ କମ୍ପାନୀ କାର୍ଯ୍ୟ କରୁଥିବା ସ୍ଥାନ ମାନଙ୍କରେ ସର୍ବଦା ଚେଷ୍ଟିତ ।

ଏସ୍. ରଥ
ନିର୍ଦ୍ଦେଶକ (ଅପରେସନ)

ଅଏଲ ଇଣ୍ଡିଆ ଲିମିଟେଡ
Oil India Limited

ଲାଗୁ ହେବାର ଧର୍ଯ୍ୟ ତାରିଖ ୨୫.୦୪.୨୦୧୨
୪୨୦ ତମ ବୋର୍ଡ ମିଟିଂରେ ସ୍ୱୀକୃତ

PART 12

ANNEXURES

ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्यम)
Oil India Limited
(A Government of India Enterprise)

Safety & Environment Department
P.O. DULIAJAN-786602,
ASSAM, INDIA
Phone : 0374-2800542
Fax : 0374-2801796
Email : safety@oilindia.in

Ref.No. S&E/E/43/2065 Dated: 11.11.2016

To,

Divisional Forest Officer
Wildlife, Tinsukia Division
Tinsukia District, Assam

Sub: Request for granting Forest Permission against the Environment Clearance (EC) obtained in the year 2011by OIL for carrying out drilling activities.

We write with reference to our meeting held on 10.11.2016 with you at your good office, wherein it was discussed with you regarding the forest permission which is a statutory requirement. In the specific conditions of Environment Clearances (ECs) obtained by OIL vide F. No. J-11011/1255/2007- IA II (I), dated 1st November 2011 for North Hapjan - Tinsukia -Dhola Block , it has been stated by MoEF & CC that "Permission shall be obtained from the State Forest Department regarding the impact of the proposed drilling on the surrounding reserve forest".

In this connection, it is to be noted that as per the stipulations of the TOR approved by MoEF&CC for EIA study, the impact of drilling activities on the nearby Flora & Fauna has been thoroughly studied. Since drilling is a temporary activity, according to the EIA study no significant impact has been envisaged and the EIA study which was carried out with due diligence and had been accepted by MoEF &CC. (Relevant portion of the EIA study is enclosed for your ready reference)

View above, we request you to kindly grant us Forest Permission as per the requirement of specific condition of EC in part A (iii) since we are not in a position to trace the FC, if already taken in the past.

Thanking You,

Yours Faithfully,

OIL INDIA LIMITED

11/11/2016

(A.K.Acharya)
GM (HSE)
For Resident Chief Executive

Encl: As stated above.

List of Attachments

Attachment 1	Old EIA conducted during 2009
Attachment 2	EIA for ERD locations 2017
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Attachment 6	Noise monitoring data within 1 km of the well
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Attachment 3: Analysed data received till date

Surface Water Quality (Set 1)								
Characteristics	**Unit**	**Pond in the North-west side of L0c#BGN #05**	**Pond Situated in the North Side of Loc BGN #05**	**Pond situated about 150m distance from the boundary of Loc -BGN #05**	**Dibru River**	**Loc#BGN#05**	**Drain 200 m away from Loc#BGN#05**	**Maguri Motapung beel under Maguri Motapung bridge**
		01.06.20	**01.06.20**	**01.06.20**	**04.06.20**	**05.06.20**	**05.06.20**	**09.06.20**
pH		6.8	6.8	6.9	7.1	7.1	7.1	6.6
Chloride (as Cl)	mg/l	2	5	4	6	4	2	5
Phenolic Compounds as C_6H_5OH	mg/l	--	-	-	0.188	2.0*	2.42*	
Sulphate as SO_4	mg/l	4	9	8	1	2	17	BDL
Chromium as Cr6	mg/l	-	-	-	BDL	0.136*	0.094	
TDS	mg/l	55	52	47	22	86	124	54
Suspended Solids	mg/l				78	3289*	89612*	
Oil & Grease	mg/l	43706.4 (4.37% w/v)	48706.2(4.87 % w/v)	33296 (3.32% w/v)	Nil	5388.2 (5.38%w/v)	38610 (3.86%w/v)	0.08
Dissolved Oxygen	mg/l	7.49	7.45	7.14	-	-	-	2.09
Electrical Conductivity	mhos/cm	114.5 X 10^{-6}	110.3 X 10^{-6}	111.5 X 10^{-6}	-	--		74.5X 10^{-6}

** *Monitoring conducted by OIL*

Surface Water Quality (Set 2)										
S.N.	**Parameters**	**Unit**	Ditch adjacent to BGN-5	Dangori river near Baghjangaon	Junction of Dangori river and Dibru river	Dangori river near Guijan ferry ghat	Low lying area near Maguri beel	Dangori river near Baghjangaon	Junction of Dangori river and Dibru river	Dangori river near Guijan ferry ghat
	Dates		07.06.2020	07.06.2020	08.06.2020	08.06.2020	08.06.2020	08.06.2020	09.06.2020 (before well fire)	09.06.2020 (before well fire)
1	pH value	None	6.43 at 25 ^{0}C	6.62 at 25 ^{0}C	7.2 at 25 ^{0}C	6.81 at 25 ^{0}C	6.33 at 25 ^{0}C	6.96 at 25 ^{0}C	7.09 at 25 ^{0}C	6.92 at 25 ^{0}C
2	Total Dissolved Solids (as TDS)	mg/l	162.5	76.8	56.3	61.7	104.8	62.7	59.6	68.4
3	Temperature	^{0}C	28 ^{0}C	28 ^{0}C	27 ^{0}C	26 ^{0}C	30 ^{0}C	29 ^{0}C	27 ^{0}C	28 ^{0}C
4	Dissolved Oxygen	mg/l	3.6	5.7	5.2	5.4	4	5.4	5.4	4.8
5	Chemical Oxygen Demand (COD)	mg/l	2667	16	12	7.8	2192	39	39	466
6	Oil & Grease	mg/l	160000	<1.4	<1.4	<1.4	390	2.8	<1.4	8.4
7	PAH	mg/l	0.69	0.16	0.12	0.21	0.67	0.21	0.22	0.34
8	TPH	mg/l	155090	1.18	<1	<1	357	2.95	<1	6.1
9	BTEX	mg/l	0.096	0.054	0.069	0.083	0.202	0.064	0.048	0.09

** *Monitoring conducted as part of ERM Study*

Attachment 4: Gas Analysis Reports

ऑयल इंडिया लिमिटेड
Oil India Limited
(A Government of India Enterprise) Registered Office : Duliajan, Assam

CHEMICAL LABORATORY
(An ISO 9001 : 2015 Certified Laboratory)
CHEMICAL DEPARTMENT, DULIAJAN 786 602, ASSAM, INDIA
(Phone : 91-374-2800439, Fax : 91-374-2801680/2800633,
Email : chemical@oilindia.in)

(FOR INTERNAL USE ONLY).

Ref.No.: Chem/Gas/Rep/NGA/012/20 Date 22.01.2020

CGM (GMS).

Attn.: P.Bordoloi, Dy. CE (P-E)

CHROMATOGRAPHIC ANALYSIS OF NATURAL GAS.

Memo Ref. No.	GF/Chem/Jan/09/2020 of 22.01.2020		
SAP lot no.	890000066884	890000066885	
Source	BGN # 03	BGN # 05	
Sand exposed	-	-	
Perforation range (m)	-	-	
Date of collection	21.01.2020	21.01.2020	
Collection time	11:30 AM	11:50 AM	
Collection Pressure	200.0 ksc	220.0 ksc	
Date received at Laboratory	22.01.2020	22.01.2020	
Date of analysis	23.01.2020	23.01.2020	
Cylinder No/Pressure, psi	-		-

	Composition % (v/v)		
Methane	93.68	92.97	
Ethane	2.99	2.91	
Propane	1.12	1.06	
i-Butane	0.19	0.18	
n-Butane	0.28	0.25	
i-Pentane	0.10	0.09	
n-Pentane	0.09	0.08	
Hexane +	0.20	1.15	
Nitrogen	0.06	0.09	
Carbon dioxide	1.29	1.22	
Oxygen	0.00	0.00	
Density (kg/m3)	0.7456	0.7710	
Gas Gravity	0.6084	0.6291	
Gross Calorific value (Kcal/SCUM)	9471.4	9768.4	
Net Calorific value (Kcal/SCUM)	8546.0	8822.8	
Moisture content (Lbs/mmcft)	-	-	-

Remarks 1. Samples were collected by Production Gas Department.

2. Calculation of calorific value is done as per ISO 6976 standard.

N.B. : Please collect your gas sampler from our laboratory.

Analyzed by: AKS / LND

(Mrs. D Bora)
Sr. Chemist (Lab)
For **DGM - Chemical** (Lab)
For **GM - Chemical** (Lab)

Distribution: DyCE)(P-C)/ File-01-Gas Section.

Format: ChemLab/Gas/Rep/NGA/01

ऑयल इंडिया लिमिटेड
Oil India Limited

CHEMICAL LABORATORY

(An ISO 9001 : 2015 Certified Laboratory)

CHEMICAL DEPARTMENT, DULIAJAN 786 602, ASSAM, INDIA
(Phone : 91-374-2800439, Fax : 91-374-2801680/2[illegible]33,
Email : chemlab@oilindia.in)

(FOR INTERNAL USE ONLY)

Ref.No.: Chem/Gas Rep/NGA/Z1/19 Date: 17.10.2019

CGM (GMS).

Attn.: D.H.Laskar, Dy. Chief Engineer(P-C)

CHROMATOGRAPHIC ANALYSIS OF NATURAL GAS.

Memo Ref. No.	OF/Chem/Oct/01/2019 of dated: 17.10.2019			
SAP lot no.	8900000066350	8900000066351	8900000066352	8900000066353
Source	TAG	Baghjan # 13	Baghjan # 08	Baghjan # 07
Sand exposed				
Perforation range (ft)				
Date of collection	16.10.2019	16.10.2019	16.10.2019	16.10.2019
Collection time	10:08 AM	10:40 AM	11:00 AM	11.15 AM
Collection Pressure	19.0 ksc	22.0 ksc	22.0 ksc	22.0 ksc
Date received at Laboratory	17.10.2019	17.10.2019	17.10.2019	17.10.2019
Date of analysis	17.10.2019	17.10.2019	17.10.2019	17.10.2019
Cylinder No/Pressure, psi				

Component's	Compoition % (v/v)			
Methane	92.70	93.81	93.81	93.50
Ethane	3.46	3.17	2.99	3.43
Propane	1.46	1.22	1.17	1.35
i-Butane	0.24	0.21	0.20	0.26
n-Butane	0.39	0.31	0.31	0.36
i-Pentane	0.10	0.11	0.10	0.13
n-Pentane	0.09	0.09	0.09	0.11
Hexane +	0.15	0.28	0.17	0.24
Nitrogen	0.11	0.08	0.10	0.09
Carbon dioxide	1.27	0.72	1.09	0.51
Oxygen	0.00	0.00	0.00	0.00
Density (kg/m3)	0.7543	0.7448	0.7437	0.7474
Gas Gravity	0.6189	0.6077	0.6069	0.6098
Gross Calorific value (Kcal/SCUM)	9566.4	9586.5	9488.5	9661.4
Net Calorific value (Kcal/SCUM)	8634.7	8651.7	8561.4	8721.1
Moisture content (Lbs/mmscf)				

DGM Chemical ofs Gas Sec

ऑयल इंडिया लिमिटेड
Oil India Limited

CHEMICAL LABORATORY
(An ISO 9001 : 2015 Certified Laboratory)

CHEMICAL DEPARTMENT, DULIAJAN 786 602, ASSAM, INDIA
PHONE : 91-374-2808439, FAX : 2801680/2800633
E-mail : chemical@oilindia.in

(FOR INTERNAL USE ONLY)

Ref No.: Chem/Gas/Rep/NGA/042/19 Date 26.02.2019

GM (GMS).
Attn : P.Bordoloi, Dy. C.E.(P-E)

CHROMATOGRAPHIC ANALYSIS OF NATURAL GAS.

Memo Ref. No.	PDNG/GF/Chem/Feb/011/2019 of 26.02.2019				
SAP lot no.	8900000644O1	8900000644O2	8900000644O3	8900000644O4	8900000644O5
Source	TAG (Dhakuli)	BGN # 07	BGN # 05	BGN # 13	NHK # 07E
Sand exposed	-	-	-	-	-
Perforation range (m)	-	-	-	-	-
Date of collection	25.02.2019	25.02.2019	25.02.2019	25.02.2019	25.02.2019
Collection time	2:50 PM	1:00 PM	2:10 PM	12:30 PM	10:30 AM
Collection Pressure	4200 psi	1200 psi	4000 psi	110 ksc	125 ksc
Date received at Laboratory	26.02.2019	26.02.2019	26.02.2019	26.02.2019	26.02.2019
Date of analysis	26.02.2019	26.02.2019	26.02.2019	26.02.2019	26.02.2019
Cylinder No/Pressure, psi	-	-	-	-	-

Components	Composition % (v/v)				
Methane	85.58	89.68	89.24	63.80	87.29
Ethane	5.87	5.17	4.91	13.14	7.20
Propane	2.70	1.71	1.34	8.66	2.15
i-Butane	0.57	0.34	0.24	2.50	0.44
n-Butane	0.94	0.47	0.33	3.92	0.59
i-Pentane	0.33	0.19	0.11	1.58	0.21
n-Pentane	0.29	0.16	0.11	1.29	0.19
Hexane +	0.45	0.39	0.62	2.00	0.19
Nitrogen	1.32	1.05	1.09	1.28	1.31
Carbon dioxide	1.95	0.84	2.01	1.83	0.4
Oxygen	0.00	0.00	0.00	0.00	0.00
Gas Gravity	0.6775	0.6358	0.6422	0.9217	0.6458
Gross Calorific value (Kcal/SCUM)	9898.0	9814.7	9435.9	13246.0	9797.7
Net Calorific value (Kcal/SCUM)	8958.4	8888.1	8524.8	12079.4	8858.6
Moisture content (Lbs/mmscf)	620	960	280	1070	210

Remarks : Samples were collected by Production Gas Department.

N.B. : Please collect your gas samples from our laboratory.

Analyzed by: AKS / LNG

(Mrs. D. Bora)
Sr.Chemist (Lab)
For DGM - Chemical (Lab)
For G.M. Chemical (Lab)

Distribution: CE(P-E)/GF/ File 01-Gas Section

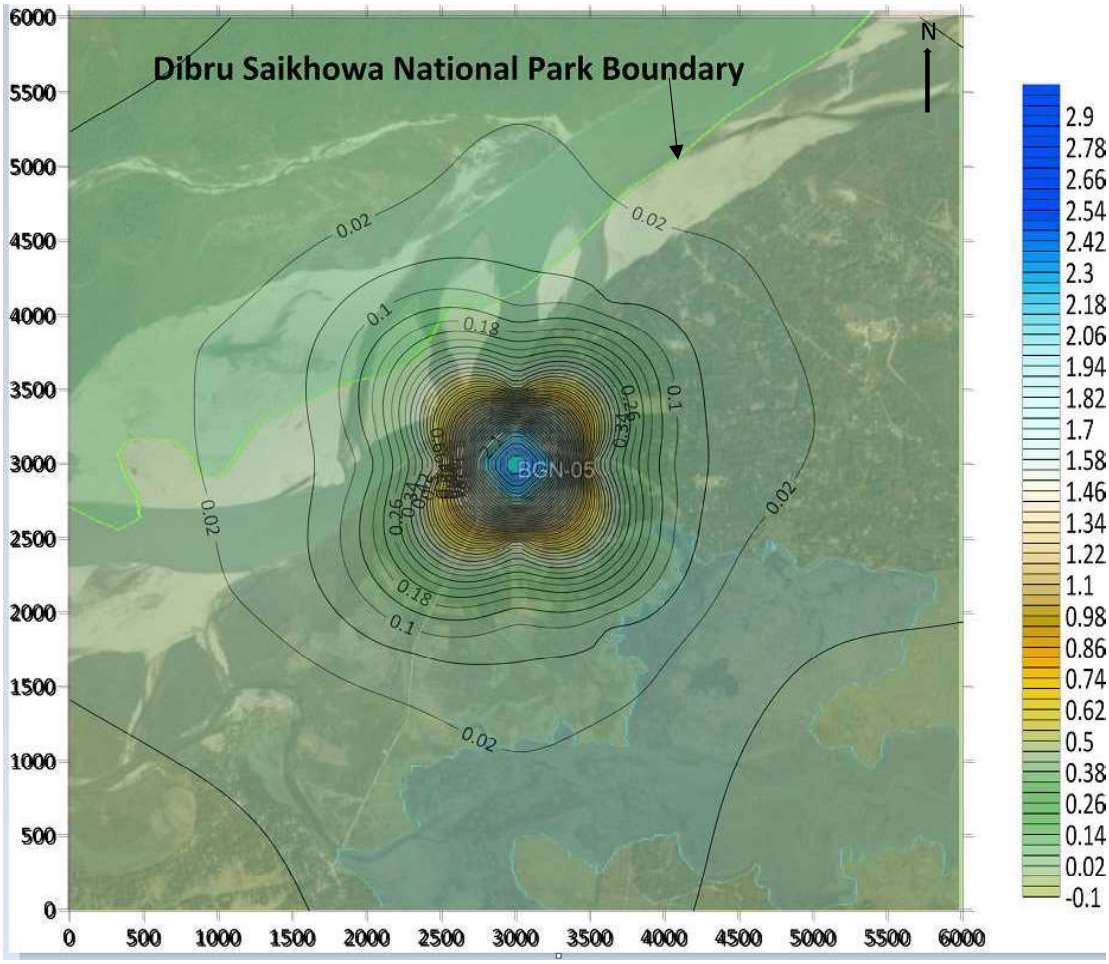
Format: Chem/Gas/Rep/NGA/01

Attachment 5: Thermal Profile in the area

The following model (ALOHA Version 5.4.7) and input parameters was used to compute the thermal radiation intensity levels (kW/m^2) for the Baghjan well blow out jet fire:

- Well diameter – 8 inch
- Well length - ~4000 m
- Well gas pressure – 4000 psi
- Temperature – Ambient
- Flammable gas considered for modelling – Methane (representing ~94% of the Natural Gas)

Figure 1: Thermal Profile (in KW/m^2) from the BGN-5 Blowout

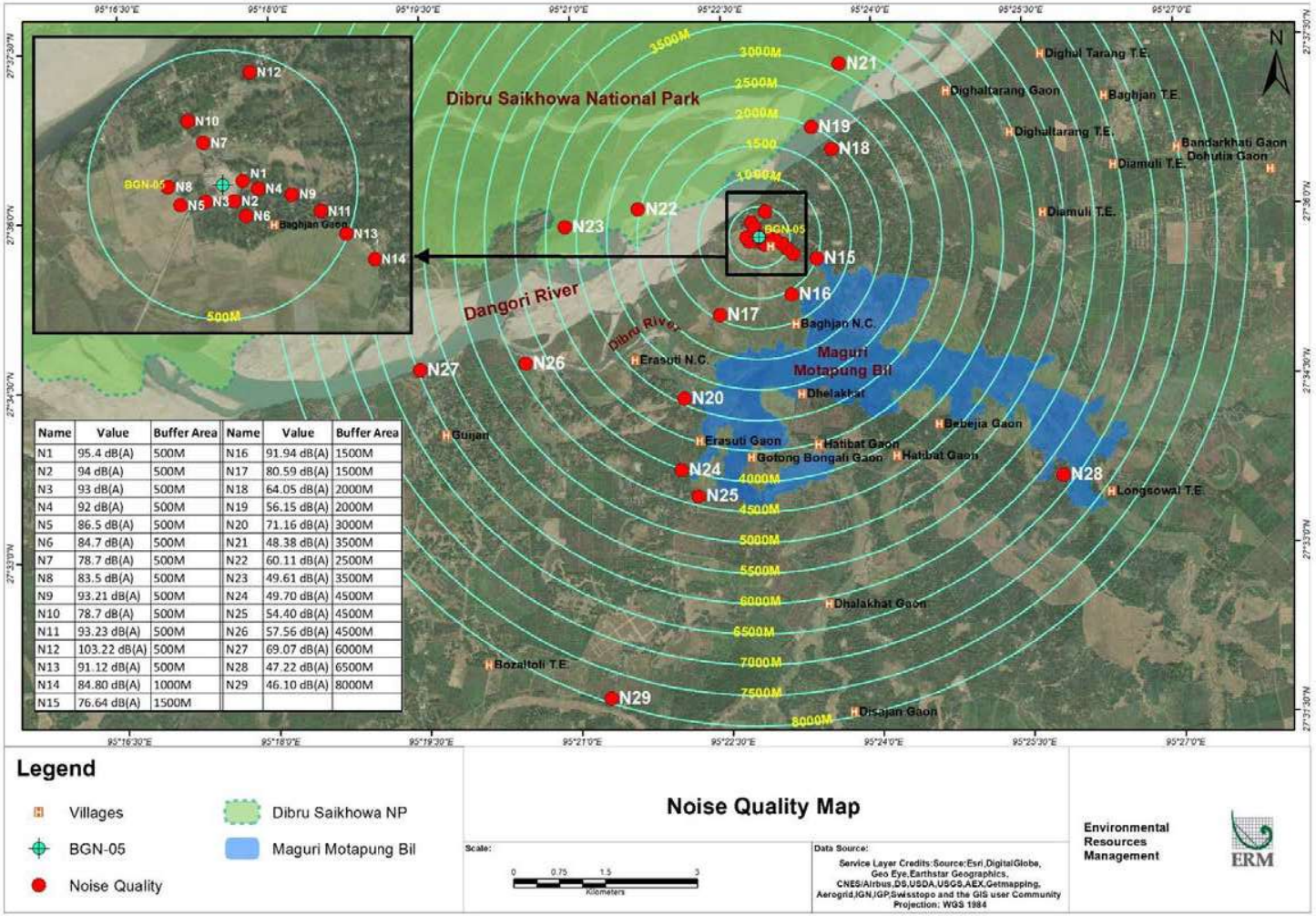


Distance on X and Y axes in meters

At source: 260KW/m^2 (at 5 m distance)

Attachment 6: Noise monitoring data within 1 km of the well

Figure 2: Noise Level around the BG-5



Name	Value	Buffer Area	Name	Value	Buffer Area
N1	95.4 dB(A)	500M	N16	91.94 dB(A)	1500M
N2	94 dB(A)	500M	N17	80.59 dB(A)	1500M
N3	93 dB(A)	500M	N18	64.05 dB(A)	2000M
N4	92 dB(A)	500M	N19	56.15 dB(A)	2000M
N5	86.5 dB(A)	500M	N20	71.16 dB(A)	3000M
N6	84.7 dB(A)	500M	N21	48.38 dB(A)	3500M
N7	78.7 dB(A)	500M	N22	60.11 dB(A)	2500M
N8	83.5 dB(A)	500M	N23	49.61 dB(A)	3500M
N9	93.21 dB(A)	500M	N24	49.70 dB(A)	4500M
N10	78.7 dB(A)	500M	N25	54.40 dB(A)	4500M
N11	93.23 dB(A)	500M	N26	57.56 dB(A)	4500M
N12	103.22 dB(A)	500M	N27	69.07 dB(A)	6000M
N13	91.12 dB(A)	500M	N28	47.22 dB(A)	6500M
N14	84.80 dB(A)	1000M	N29	46.10 dB(A)	8000M
N15	76.64 dB(A)	1500M			

Attachment 7: Brief of similar incidents reported in India having similar or higher magnitude; also elsewhere in the world

Dikom, Blowout, September 13, 2005

In September 13, 2005, there was a blowout in the well Dikom 15 which was producing oil. Immediate actions were taken and blowout /fire was controlled with the help of M/s Boots and Coots, USA, ONGC, and Oil India personnel on 05.10.2005. Following circulating the well with Bentonite gel, a cement plug was placed in the range from 3498-3194m on 09.10.2005 and the well was shut in.

Dandewala blowout in Thar Desert, September 2015

Oil-field Blowout took place in Dandewala oil field is situated 50 kms from temple town of Tanot in Jaisalmer district of Rajasthan at India-Pakistan border. Dandewala oil field was discovered in the year 1989 by Oil India Ltd. Only gas is produced from this field and the total Oil India's production from Rajasthan project is around 7 lac cubic meter per day. The gas is supplied to 270 MW gas based power plant of RSEB at Ramgarh, 60 kms from Jaisalmer. On 29 September 2015 during such well killing attempt, the surface broaching increased further resulting in a surface blowout. Oil India Ltd sought the help of ONGC management, Shri Shashi Shanker Director (T&FS) responded quickly and directed Head CMT Corporate to extend all support to Oil India Ltd for mitigating the crisis on war footing.

Pasarlapudi blowout, Onshore, 8 January 1995

The Pasarlapudi blowout was an oil rig blowout that took place on 6.50 pm, 8 January 1995 in Pasarlapudi, near Amalapuram in the East Godavari district of Andhra Pradesh, India. It was the largest blowout ever recorded in the history of the India's oil and natural gas exploration with a fire that engulfed drilling site number 19, rig number E 1400-18GF. The fire continued for 65 days. The well was finally brought under control on 15 March 1995 by International Well Control. The blowout did not cause any casualties, but the drilling rig was destroyed. Damages to the drilling rig were estimated at Rs 9.2 crore as well as about Rs 7 crore of damage to equipment at the well site area.

Blowout in OHIO, February 2018

In February 2018, a blowout at a natural gas well in rural Ohio forced nearby residents to evacuate, but the incident received little national attention at the time. A new analysis of satellite data shows that the leak was far more significant than previously thought. In just 20 days, the damaged well platform spewed an estimated 60 kilotons of the potent planet-warming gas methane into the atmosphere, scientists say. That's more methane than European countries like France, Spain and Norway release in a year. It appears the peak emission rate was twice as great as the second largest leak ever measured in the United States, the scientists say.

Elgin platform, Total: Blowout, March 26, 2012

On March 26, 2012 Total reported a gas leak that forced them to evacuate more than 200 workers from a production platform in the Elgin field of the central North Sea, about 150 miles east of Aberdeen, Scotland. It soon became clear they had an uncontrolled blowout of natural gas and liquid gas condensate, a potentially explosive situation that has caused other companies to evacuate and shut down operations at neighbouring facilities miles away from Totals' Elgin platform. Hopefully the failed well will collapse on itself ("bridge over") and shut off the high-temperature, high-pressure flow of gas from this deep reservoir. Otherwise,

it may continue to flow and pose an extreme fire and explosion hazard until a relief well can be drilled, which could take a couple of months.

Deepwater Horizon, Transocean, Blowout April 20, 2010

The Deepwater Horizon oil rig was in the final stages of exploratory drilling at the Macondo well in the Gulf of Mexico when disaster struck. On April 20, 2010, the rig exploded, killing 11 workers and forcing the evacuation of the rig. It quickly became clear that the emergency measures taken prior to evacuation had not sealed the well and that great amounts of oil were leaking into the Gulf of Mexico.

Immediately, plans were developed to stop the oil leaking from the well while attempting to avoid anything that might cause the leak to expand. This delicate balancing act – and a host of other factors from a hurricane to political wrangling – meant that it would take nearly 3 months before the leak was stopped, and nearly 5 months before the well was declared effectively dead.

Usumacinta, PEMEX, October 23, 2007

On Sunday, 21 October 2007, the Usumacinta was brought into position alongside the Kab-101 platform to finish drilling the Kab-103 well. By Tuesday, 23 October, a cold weather front passed through the Gulf of Mexico bringing storm winds of 130km/hr with waves of 6-8m. The adverse weather conditions caused oscillating movements of Usumacinta jack-up from around 1200 hours on the 23 October. These movements caused the cantilever deck of the Usumacinta to strike the top of the production valve tree on the Kab-101 platform, resulting in a leak of oil and gas. At 1420 hours, the subsurface safety valves of wells 101 and 121 were closed by PEMEX personnel, but the valves were unable to seal completely allowing the continued leaking of oil and gas. At around 1535 hours on 23 October, the 81 personnel on the Usumacinta were evacuated by lifeboat, with the ship Morrison Tide providing fire support. Rough seas hampered the rescue operation and appear to have caused the break-up of at least one liferaft.

Well control personnel were despatched to the Kab-101, with operations delayed by further bad weather and H2S release. Well control operations commenced with attempts to inject heavy mud followed by cement. Operations were again delayed on 13 November when a spark initiated by on-going work caused a fire to break out. The fire was extinguished the following day on 14 November at 2350 hours. A second fire broke out on 20 November, causing the collapse of the Usumacinta's derrick and major damage to the cantilever and connecting bridge. The fire was extinguished the same day with no injuries.

Several phases of work then commenced, including debris removal from the Usumacinta, the attachment of a valve for controlled flaring, the installation of a blowout preventer and finally the shutting in of the well followed by killing with heavy mud and plugging with cement. By 17 December 2007, PEMEX reported complete control of the well.

Temsah, Mediterranean Sea, Egypt, August 2004

In 10th August 2004, the Adriatic IV was on location over the Temsah gas production platform, off Port Said, Egypt in the Mediterranean. The rig was drilling a natural gas well when a gas blowout occurred during drilling ops. Reports state that there was an explosion followed by fire which was initially contained on the jack-up. For

reasons unknown, the fire then spread to the Petrobel-run platform where it continued to rage for over a week before being brought under control. More than 150 workers on the jack-up and platform were evacuated with no casualties, due in part to the prior recommendation that production activities be ceased as a precautionary measure.

Global Santa Fe reported the Adriatic IV as sunk and not salvageable. The platform, owned jointly by BP, Italy's ENI and Egypt's General Petroleum Corporation was damaged beyond repair and its destruction was ordered by Egypt's petroleum minister. Less than a year after the accident, production at the Temsah field was back on-stream at full production rates.

Eugene Island Block 273, Gulf of Mexico, March 2001

Platform A, Eugene Island Block 273, of Forest Oil Corporation at Gulf of Mexico on 01 March 2001 experienced an uncontrolled flow, causing a blowout and fire. The 14-3/4" hole had been TD'd at 1700 ft and 10-3/4" casing run and circulated with no gas observed. The casing was then cemented and left to cure. In the early hours of 01 March, the casing was cut to length at surface and the slip-on wellhead positioned over the casing. Welding operations on the wellhead began, during which time a small blue flame was observed and extinguished. The source was thought to be grease. No gas was detected. Welding then continued and a second flame was observed, slightly larger than the previous flame. The area was again checked for gas resulting in the gas detector showing its maximum level. At 0130 hours, the driller observed flow from 10+ valve on the conductor below the platform. Attempts were made to stem the increasing flow of gas and fluids from 10+ valve using sea water and weighted drilling mud but sufficient volume could not be added to slow the flow. The flow continued to increase and the decision was made to abandon both the rig and platform at 0300 hours. The 10+ valve was opened to divert the flow of gas away from the rig and platform, and all 43 personnel were then safely evacuated via two lifeboats to Platform B. Specialist personnel from Wild Well Control were called in to help with capping and killing operations but the gas flow ignited in the early hours of 02 March, due to an unknown ignition source. The well partially bridged on 03 March, causing the fire to go out, and the well was subsequently killed. Production on the platform had been shut-in during drilling ops, which probably prevented a greater fire. During the fire, the Ensco 51's derrick and substructure were completely destroyed, with the derrick collapsing onto the platform. The platform and its production equipment were also extensively damaged.

The Mingbulak (or Fergana Valley) Oil Spill, 1992

The largest land-based oil spill in history, and Asia’s worst oil spill, occurred in Uzbekistan on March 2, 1992. A blowout at a well spewed oil into the valley near the city of Fergana. The oil caught fire and burned for two months before the well pressure subsided.

Kungur district of the Volga-Ural area's Perm province, Russia, June 1992

Russia reported on 1st June 1992, a major fire has been doused at a wildcat in the Kungur district of the Volga-Ural area's Perm province. The well was controlled after flowing about 17.65 MMcfd of gas for 10 days. Moscow's Itar-Tass news agency said the blowout occurred when the entire drilling crew went to supper even though gas

was detected in the wellbore. Besides the lost gas, the accident heavily damaged a rig that, with Russia's hyperinflation, now costs more than 15 million roubles.

Nigeria Coast, 1989

The Santa Fe Al Baz was drilling off the Nigerian coast in 1989 when it suffered a blowout. Gas liberated from the blowout ignited, causing the death of the derrickman. Four other crew members died from impact injuries and drowning after jumping overboard to escape the fire. The rig subsequently sank into the sea. It was a shallow gas blowout that the diverter system could not handle, blowing the 12" diverter lines off from the spool under the bag preventer. The rocks and sand ignited the gas, with the flames under the cantilever deck. After the abandonment of most of the crew, the heat eventually melted away the cantilever and rig package, which fell from the barge, pulling the conductor pipe with it. This breakage at seafloor allowed a crater to develop causing the stern legs to fall into the crater with the main barge following. In the spring of 1992, the rig was salvaged by the Stanislav Yudin, owned and run by Seaway Heavy Lifting company.

Enchova Central, Brazil, August 1984

The Enchova Central Platform disaster in the Campos Basin near Rio de Janeiro, Brazil, killed 42 people in August 1984. The accident occurred due to a blowout, which caused a fire and explosion at the central platform of the Enchova field operated by Petrobras. Most of the workers were evacuated from the platform by lifeboats and helicopter except for 42 workers who lost their lives during the evacuation process. Malfunctioning of the lowering mechanism of a lifeboat caused the 36 deaths while six died as they jumped from the platform into the sea. The lifeboat remained vertically suspended because of the failure of the bow hook and eventually fell 20m deep into the sea as its supporting cables snapped.

Enchova Central, Brazil, April 1988

Disaster struck the Enchova platform on 24 April 1988 as one of its 21 wells blew out and eventually ignited. The well suffered a blowout while undergoing a workover to convert it from oil production to gas production. The fire caused by the blowout on the platform led to massive damage topside, however, all the workers were safely evacuated to the nearby floating accommodation ship without a single casualty.

Norwegian Continental Shelf, 22 April 1977

The Ekofisk Bravo platform of Phillips Petroleum Company is situated to the north of the Ekofisk field and is one of two wellhead production facilities at Ekofisk. On 22 April 1977, it was the location of a blowout and North Sea's biggest oil spill. The Ekofisk B blowout occurred during a workover on the B-14 production well, when about 10,000 feet of production tubing was being pulled. The production christmas tree valve stack had been removed prior to the job and the BOP had not yet been installed. The well then kicked and an incorrectly installed downhole safety valve failed. This resulted in the well blowing out with an uncontrolled release of oil and gas. The personnel were evacuated without injury via lifeboats and were picked up by a supply vessel. The initial flow was estimated at 28,000 bpd with a calculated total release of 202,380 bbls. Up to 30 to 40% of the oil was thought to have evaporated after its initial release and the Norwegian Petroleum Directorate reported a total spill estimate between 80,000 bbls and 126,000 bbls. The well was capped

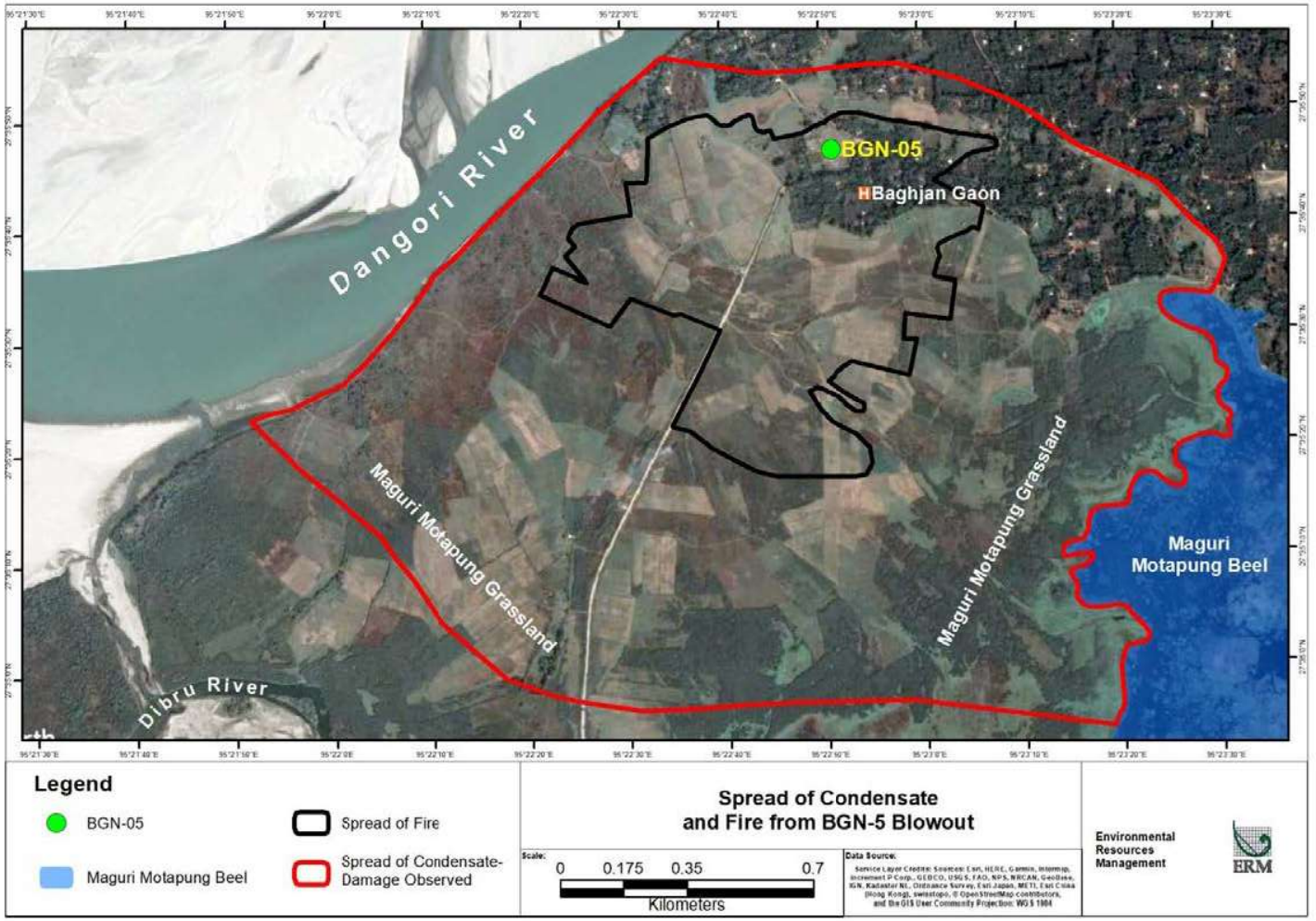
after seven days on 30 April 1977. Rough seas and higher than average air temperatures aided the break up of much of the oil. Later investigations reported no significant environmental damage and no shoreline pollution. There was also no significant damage reported to the platform. The official inquiry into the blowout determined that human errors were the major factor which led to the mechanical failure of the safety valve. These errors included faults in the installation documentation and equipment identification and misjudgements, improper planning and improper well control. The blowout was significant because it was the first major North Sea oil spill. Also significant was that the ignition of the oil and gas was avoided and that there were no fatalities during the evacuation.

Attachment 8 Assessment for the spread of condensate

Spread of condensate material from the BGN-5 well from 27th May till 9th June has been mapped. The mapping was done based on the visual damage to vegetation cover in the surrounding areas of BGN-5 well. Mapping of the extent of fire from the well on 9th June was also mapped based on visual observations. The map presented in **Figure 3**.

Condensate spread had happened at areas beyond the field observation of vegetation damage. Hence, modelling exercise of condensate spread under is being undertaken. After completion of the modelling spread of condensate and also gas release from the Blowout could be mapped properly.

Figure 3: Spread of Condensate and Fire from BGN-5 Blowout



Attachment 9: Impact on eye, ear, brain and mental stress levels due to exposure to high sound, heat and very high lumens

Noise Impact:

Exposure to noise at work can harm workers' health. The most well-known effect of noise at work is loss of hearing etc. Occupational Safety and Health Administration (OSHA), US Department of Labour, has set permissible noise limit as given in Table 1. According to OSHA, Exposure to impulsive or impact noise should not exceed 140 dB peak sound pressure level[1].

Table 1: OSHA Permissible Noise Exposure

Sound level dB(A) slow response	Duration in hours, per day
90	8
92	6
95	4
97	3
100	2
102	1.5
105	1
110	0.5
115	0.25

Source: OSHA

U.S. Department of Health and Human Services, had published Revised Criteria in 1998 for Occupational Noise Exposure given in Table 2 which provided the basis for a recommended standard to reduce the risk of developing permanent hearing loss as a result of occupational noise exposure [NIOSH 1972]. The 1998 recommendations go beyond attempting to conserve hearing by focusing on preventing occupational noise-induced hearing loss (NIHL). The new risk assessment reaffirms support for the 85-dBA REL (recommended exposure limit). With a 40-year lifetime exposure at the 85-dBA REL, the excess risk of developing occupational NIHL is 8%—considerably lower than the 25% excess risk at the 90-dBA permissible exposure limit (PEL) currently enforced by the Occupational Safety and Health Administration (OSHA) and the Mine Safety and Health Administration (MSHA)[2].

[1] https://www.osha.gov/laws-regs/regulations/standardnumber/1926/1926.52#1926.52(d)(1)
[2] https://www.cdc.gov/niosh/docs/98-126/pdfs/98-126.pdf?id=10.26616/NIOSHPUB98126

Table 2: Combinations of noise exposure levels and durations that no worker exposure shall equal or exceed

Exposure level, *L* (dBA)	Duration, *T*			Exposure level, *L* (dBA)	Duration, *T*		
	Hours	Minutes	Seconds		Hours	Minutes	Seconds
80	25	24	–	106	–	3	45
81	20	10	–	107	–	2	59
82	16	–	–	108	–	2	22
83	12	42	–	109	–	1	53
84	10	5	–	110	–	1	29
85	8	–	–	111	–	1	11
86	6	21	–	112	–	–	56
87	5	2	–	113	–	–	45
88	4	–	–	114	–	–	35
89	3	10	–	115	–	–	28
90	2	31	–	116	–	–	22
91	2	–	–	117	–	–	18
92	1	35	–	118	–	–	14
93	1	16	–	119	–	–	11
94	1	–	–	120	–	–	9
95	–	47	37	121	–	–	7
96	–	37	48	122	–	–	6
97	–	30	–	123	–	–	4
98	–	23	49	124	–	–	3
99	–	18	59	125	–	–	3
100	–	15	–	126	–	–	2
101	–	11	54	127	–	–	1
102	–	9	27	128	–	–	1
103	–	7	30	129	–	–	1
104	–	5	57	130–140	–	–	<1
105	–	4	43	–	–	–	–

Source: Occupational Noise Exposure Revised Criteria 1998, U.S. Department of Health and Human Services.

Exceeding the exposure level of noise at the workplace will yield significant health impacts on the employee which physical as well as psychological in nature. The broad impacts are listed below:

1. *Hearing impairment:* Hearing impairment can be due to a mechanical blockage in the transmission of sound to the inner ear (conductive hearing loss) or damage to the hair cells in the cochlea, part of the inner ear (sensorineural hearing loss). Rarely, hearing impairment may also be caused by central auditory processing disorders (when the auditory centres of the brain are affected)[3].

2. Noise-induced hearing loss: Noise-induced hearing loss (NIHL) is the most common occupational disease in Europe, accounting for about one third of all

[3] https://osha.europa.eu/en/publications/factsheet-57-impact-noise-work

work-related diseases, ahead of skin and respiratory problems. NIHL is usually caused by prolonged exposure to loud noise. The first symptom is normally the inability to hear high-pitched sounds. Unless the problem of excessive noise is addressed, a person's hearing will deteriorate further, including difficulties detecting lower-pitched sounds. This will normally occur in both ears. The damage of noise-induced hearing loss is permanent. Hearing loss can occur without long-term exposures. Brief exposure to impulsive noises (even a single strong impulse), such as from gunshots or nail or rivet guns can have permanent effects, including loss of hearing and continuous tinnitus. Impulses can also split the eardrum membrane. This is painful but the damage is healable.

3. Stress: Work-related stress occurs when the demands of the work environment exceed the workers' ability to cope with (or control) them. There are many contributors (stressors) to work-related stress, and it is rare that a single causal factor leads to work-related stress. The physical work environment can be a source of stress for workers. Occupational noise, even when it is not at a level that requires action to prevent hearing loss, can be a stressor (e.g. the frequent ringing of a telephone or the persistent hum of an air-conditioning unit), although its impact is usually in combination with other factors.

Heat Effect:

Exposure to extreme heat can result in occupational illnesses caused by heat stress, including heat stroke, heat exhaustion, heat syncope, heat cramps, heat rashes, or death. Heat can also increase workers' risk of injuries, as it may result in sweaty palms, fogged-up safety glasses, dizziness, and may reduce brain function responsible for reasoning ability, creating additional hazards. Other heat injuries, such as burns, may occur as a result of contact with hot surfaces, steam, or fire[4]. According to OSHA, heat-related fatality cases show that workplaces with temperatures above 70 degrees Fahrenheit may have a heat hazard present when work activities are at or above a moderate workload.

A heat-related illness occurs when there is an increase in the worker's core body temperature above healthy levels. As core temperature rises, the body is less able to perform normal functions. As core temperature continues to increase, the body releases inflammatory agents associated with damage to the liver and muscles. This process may become self-sustaining and generate a run-away inflammatory response, the "systemic inflammatory response" syndrome that often leads to death[5]. The WHO Scientific Group recommended that "it is considered inadvisable for a deep body temperature to exceed 38°C (100.4°F) for prolonged daily exposures (to heat) in heavy work" [WHO 1969] and that a deep body temperature of 39°C (102.2°F) should be considered reason to terminate exposure, even when deep body temperature is being monitored.

[4] https://www.cdc.gov/niosh/docs/2016-106/pdfs/2016-106.pdf
[5] https://www.osha.gov/dts/osta/otm/otm_iii/otm_iii_4.html

The main heat impact on human health are: heat stroke, heat strain, heat stress, heat exhaustion, heat cramp, heat rash, heat syncope, rhabdomyolysis. The individual impacts in details are given below:

1. ***Heat Stroke*** is the most serious heat-related illness and should be treated as a medical emergency. Heat stroke occurs when the body becomes unable to adequately dissipate heat, losing the ability to regulate core body temperature. The core body temperature rises rapidly, the sweating mechanism may fail, and the body is unable to cool down. When heat stroke occurs, the body temperature can rise to 41°C (106°F) or higher within 10 to 15 minutes. Thinking clearly, perception, planning, and other mental processes become impaired, and the worker may be unable to recognize dangerous situations. Heat stroke can cause death or permanent disability if emergency medical treatment is not given. Symptoms include confusion, clumsiness, slurred speech, fainting/unconsciousness, hot dry skin, profuse sweating, seizures, and high body temperature.

2. ***Heat Exhaustion*** is often a precursor to heat stroke. It is often accompanied by elevated core body temperatures around 38°C–39°C (100.4°F–102.2°F). Symptoms may include headache, nausea, dizziness, fatigue, weakness, thirst, heavy sweating, irritability, and a decreased urine output.

3. ***Heat Cramps*** are caused by the body's depleted salt and water levels from excessive sweating resulting in muscle cramps or spasms. They usually occur in the muscles used during work. The symptoms include spastic contractions and pain in voluntary muscles mainly in the arms, legs, or torso.

4. ***Heat Syncope*** usually occurs after prolonged standing or sudden rising from a sitting or supine position. Heat syncope symptoms include light-headedness, dizziness, and fainting. Dehydration and inadequate acclimatization often contribute to heat syncope.

5. ***Heat Rash*** is skin irritation caused by excessive sweating. Excessive moisture and sweat obstructs sweat ducts and forms itchy and painful red pimple/blister clusters and skin lesions. It is exacerbated in hot and humid weather and common on the neck, chest, groin, armpits, elbow creases, and behind the knees.

6. ***Rhabdomyolysis*** is a medical condition, sometimes caused by heat stress and prolonged physical exertion, in which muscle fibers rapidly break down, die, and release electrolytes and proteins into the bloodstream. Left untreated, this can lead to kidney damage, seizures, irregular heart rhythms, and death. Symptoms include muscle cramps, muscle pain, dark urine, weakness, inability or decreased ability to perform physical exercise at the normally expected level or duration (i.e., exercise intolerance), and joint pain/stiffness[6].

[6] https://www.osha.gov/dts/osta/otm/otm_iii/otm_iii_4.html

Impact of High lumens constant exposure:

The amount of light falling on a surface is measured in units called lux or Lumens (quantity of light) per square metre. As per CCOHS (Canadian Centre for Occupational Health and Safety) adequate general lighting is usually between 500 and 1000 lux when measured 76 cm (30 inches) above the floor. Recommended light levels for Industrial and office works are in the table below.

Table 3: Recommended Illumination Levels

Type of Activity	Ranges of Illuminations (Lux)**
Public spaces with dark surroundings	20-50
Simple orientation for short temporary visits	50-100
Working spaces where visual tasks are only occasionally performed	100-200
Performance of visual tasks of high contrast or large scale	200-500
Performance of visual tasks of medium contrast or small size	500-1000
Performance of visual tasks of low contrast or very small size	1000-2000
Performance of visual tasks of low contrast and very small size over a prolonged period	2000-5000
Performance of very prolonged and exacting visual tasks	5000-10000

Source: IESNA Lighting Handbook. 9th ed. Illuminating Engineering Society of North America, 2000. p. 10-13.

**Lux = Lumens (quantity of light) per square metre.

The potential impact due prolonged exposure to lumen are caused due to glaring effects. The International Commission on Illumination (CIE) defines glare as "visual conditions in which there is excessive contrast or inappropriate distribution of light sources that disturbs the observer or limits the ability to distinguish details and objects." Glare, one of the leading causes of eye strain and less-than-optimal vision, exists a significant safety hazard by making visibility difficult and even impossible at times and also through the strain it places on the eyes, neck and shoulders as muscles try to adapt. Glare most often presents itself both in the presence of bright, natural light and in artificial light. At extreme levels, glare can be intense enough to disable and significantly reduce visibility or even block vision. Age can also play a role in how much discomfort glare causes since people generally become more sensitive to glare as they age. In addition, glare impacts every individual regardless of age differently. Intolerable conditions for one person can seem acceptable to another[7].

[7] https://blog.safetyglassesusa.com/reducing-glare-as-a-workplace-safety-hazard/#:~:text=At%20extreme%20levels%2C%20glare%20can,visibility%20or%20even%20block%20vision.&text=Resulting%20issues%20include%20eye%20strain,attempt%20to%20reduce%20the%20glare.