

SAI ENGINEERING FOUNDATION

SAI BHAWAN, SECTOR-4, NEW SHIMLA-171009 (H.P.)
PHONE: 0177-2670349 / 2671268 FAX NO: 0177-2672915

Full Title of the Project :- Tundah-II Hydro Electric Project.
File No. :- FP/HP/HYD/49283/2020.
Date of Proposal :- 31/08/2020.

Check List Serial No. 11

CERTIFICATE OF MINIMUM USE OF FOREST LAND

This is to certify that the forest area involved in the proposal is unavoidable and barest minimum forest area i.e. 13.3082 hectares area is proposed herein for diversion.


Date : 31.08.2020.
Place : Bharmour.



(Vinay Barwal)

Authorised Signatory,
Sai Engineering Foundation.

Countersigned by:-


Divisional Forest Officer,
Forest Division Bharmour,
District Chamba (H.P.).
Bharmour (H.P.)

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CERTIFICATE FOR MINIMUM USE OF FOREST LAND WITH DETAILS OF AREA AND TREES INVOLVED IN THE ALTERNATIVES EXAMINED AND REASONS FOR THEIR REJECTION

We have presented three different alternates / alignments before the Joint Inspection Committee (JIC) for setting up of Tundah-II (24 MW) Hydro Electric Project keeping in view all aspects of site feasibility, ecological disturbances, stability of strata, barest minimum use of forestland, minimum loss to the environment and degradation as detailed below:-

Alternate / Alignment No.	Descriptions
No-I.	As per this alternate / alignment, proposed project is becoming technically feasible, environmental friendly, cost effective and barest minimum forestland is involved. All the proposed components have been kept in the safe locations after optimum utilization of natural resources. As per this alignment, approximately 1 kms. long approach road is to be constructed up to proposed Power House site and approximately 1.25 kms. long 33 KV Double Circuit Transmission Line is to be constructed upto interfacing point at Lahal Sub Station. As per this alignment, total forest land measuring 13.3082 hectare is involved for diversion and 64 Nos. of trees are coming which are to be felled. Hence, this alternate is selected.
No-II.	As per this alternate / alignment, power house and some other components are not coming in the safe locations due to which project is not technically feasible and project is becoming un-viable. More forestland and financial implications is involved instead of alternate / alignment No-1. As per this alternate / alignment, approximately 4-5 kms. long approach road up to Power House site shall be constructed to transport the heavy machinery and approximated 3-4 kms. long 33 KV double circuit transmission line shall be constructed upto interfacing point at Lahal. But as per this alignment, approximately 19.86 hectare of forest land and more than 300 Nos. trees are involved. Hence, this alternate is rejected.

No-III.	As per this alternate / alignment, power house and other components are not coming in the safe locations due to which project is not technically feasible and project is becoming un-viable. More forestland is involved and project cost is becoming very high instead of alternate / alignment No-1 & 2. As per this alternate / alignment, approximately 5-6 kms. long approach road up to Power House site shall be constructed to transport the heavy machinery and approximated 4-5 kms. long 33 KV double circuit transmission line shall be constructed upto interfacing point at Lahal. As per this alignment, approximately 21.99 hectare of forest land is involved and trees more than Alignment No-1 is coming. Hence, <u>this alternate is rejected.</u>
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All the efforts have been made for minimising the forestland as well as least numbers of trees to be felled. On the basis of the actual facts & figures mentioned above, forestland proposal as per Alternate / Alignment No-1 has been prepared for the diversion of forestland measuring **13.3082 hectares** for non-forestry purpose which is technically feasible, environmental friendly, cost effective and barest minimum forestland is involved.


Date : 31.08.2020.
Place : Bharmour.


Range Forest Officer
Bharmour Forest Range
Bharmour

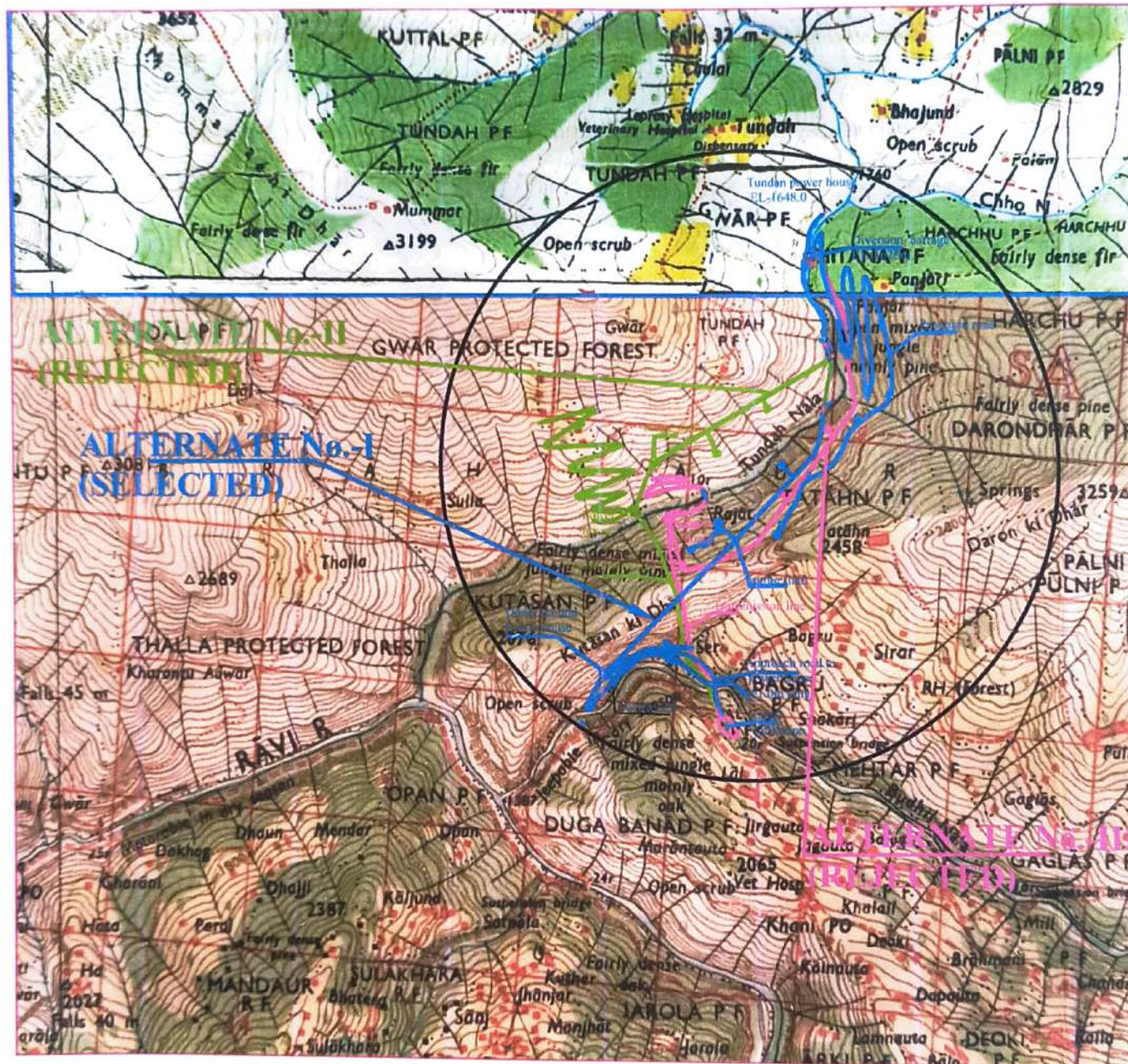


(Vinay Barwal)
Authorised Signatory,
Sai Engineering Foundation.

Countersigned by:-


Divisional Forest Officer,
Forest Division Bharmour,
District Chamba (H.P.).

ALTERNATIVE MAP OF (24.0MW) TUNDAH-II HEP ON TOPO SHEET



[Signature]
Range Forest Officer
Bharmour Forest Range
Bharmour



LEGEND	
ALTERNATE No.-I (SELECTED)	—
ALTERNATE No.-II (REJECTED)	—
ALTERNATE No.-III (REJECTED)	—

[Signature]
Range Forest Officer
Swarn Ganga

[Signature]
Divisional Forest Officer
Bharmour Forest Division
Bharmour (H.P.)

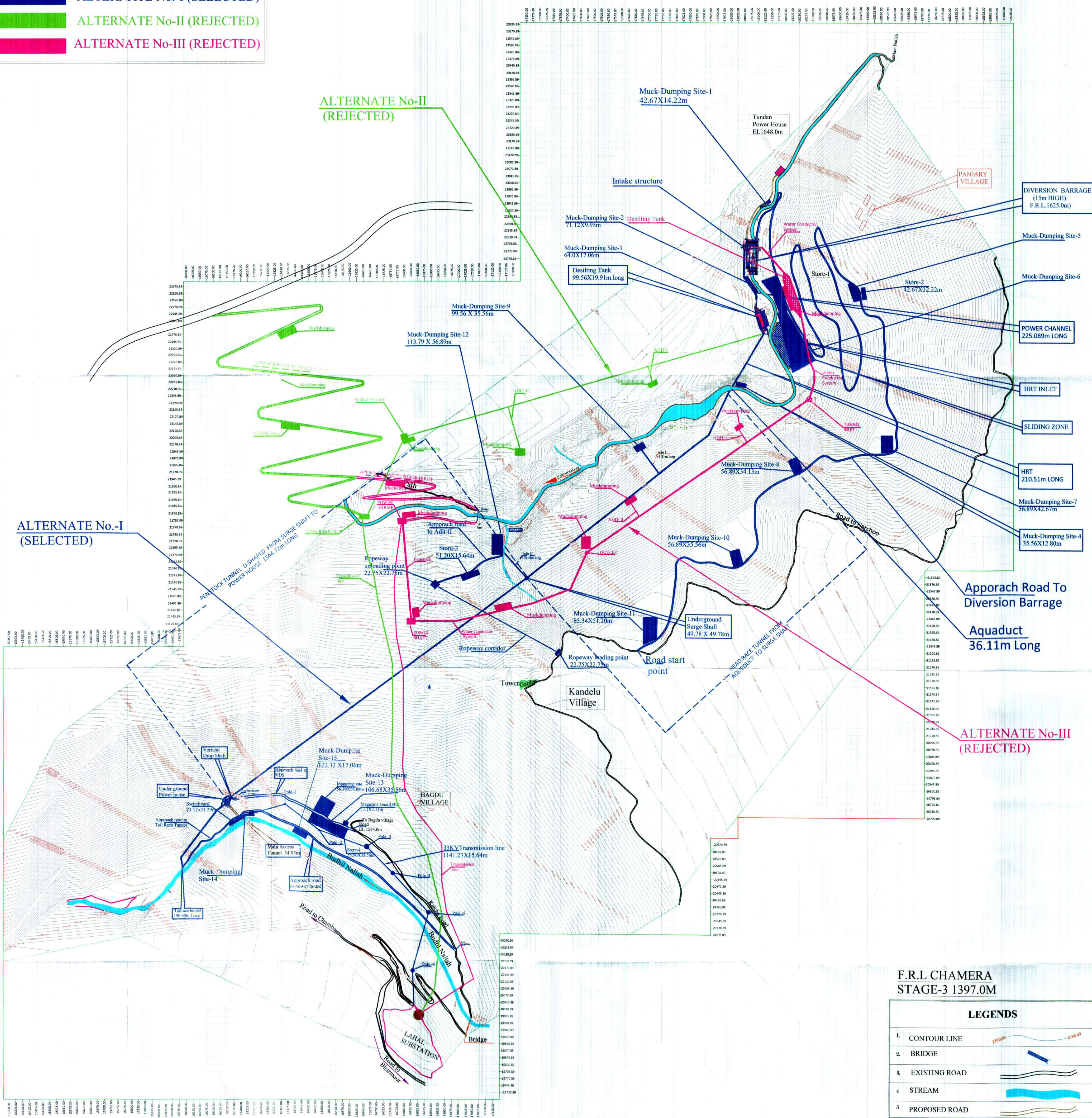
SCALE-1:50000

TOPO SHEET NO:

52D/6&52D/7

ALTERNATIVE LAYOUT PLAN OF TUNDAH-II H.E.P (24MW)

- ALTERNATE No-I (SELECTED)
- ALTERNATE No-II (REJECTED)
- ALTERNATE No-III (REJECTED)



F.R.L CHAMERA
STAGE-3 1397.0M

LEGENDS	
1.	CONTOUR LINE
2.	BRIDGE
3.	EXISTING ROAD
4.	STREAM
5.	PROPOSED ROAD

PROJECT	TUNDHA-II HYDRO POWER PROJECT (CAPACITY 24MW)		
DEVELOPER	SAI ENGINEERING FOUNDATION		
TITLE	ALTERNATIVE LAYOUT PLAN		
DRAWN BY	NISHA THAKUR		
SURVEYED BY	SUSHIL TOMAR		
CHECKED BY	Er. MUNISH SHARMA		
CONTOUR INTERVAL =10m		SCALE :- N.T.S.	DATE :- 08/8/2020
DRG. NO. :- EF/DCP / TUNDHA-II /20/06			

Range Forest Officer
Swar (Garola)

Range Forest Officer
Bharmour Forest Range
Bharmour

SAI ENGINEERING FOUNDATION
NEW DELHI
171009 (H.P.)

Divisional Forest Officer
Bharmour Forest Division
Bharmour (H.P.)