STATUS OF SURVEY & INVESTIGATION OF HE SCHEMES

199	NAME OF SCHEME:	(PART I) Selim H.E Project - ROR, 2x29 MW
	GENERAL INFORMATION	Schm H.E Project - ROK, 2829 WW
1	State	DC 1.1
		Meghalaya Damsite-Between East & West Jaintia Hills District, near
2	Location -	Umsalang village (Right Bank)
(a)	Latitude of Dam	25° 21' 48.99" N
	Longitude of Dam	92° 11' 38.52 " E
(0)	General layout /Index map may please be furnished	92 11 36.32 E
3	District	East Jaintia Hills District
	Nearest G&D site	Damsite
	Catchment Area near G&D site	170.80 Sq.Km
	Status of availability of G&D site	Established since May 2006.
	Basin/River	Myntdu
	Catchment Area (Sq.km)	170.80 Sq.Km
8	Type of Scheme (ROR/Storage/PSS)	ROR scheme
	Firm Power (MW)	3.17 MW 194.29 MU in 90 % Dependable year
11	Annual Energy Benefits (GWh)	
	Inter State Aspects	Does not arise
	International Aspects	NIL No defense installations
	Defense aspects	
	R & \underline{R} Aspects	Does not arise
16	Forests area involved	Detail Investigation to be taken up
17	Geological problems anticipated, if any	Sub-surface investigation will be carried out.
18	Accessibility-Nearest Rail head/	Nearest Rail Head: Guwahati - 193 Km.
	Road and distance from the project.	Nearest Road: 5 Km from Mupyut (PWD Road), West Jaintia Hill:
		District.
10	Upstream scheme, if any -	Nil H (2)(0)
17	opsieum soneme, = ===	Commissioned Leshka-I (3X42 MW), Proposed Leshka-II (3X60
		MW). As per the MoEF guidelines, the proposed Suchen HEP, just
• •	IDt con golomo if ony	1711). 1 Es por esta 8
20	Downstream scheme, if any	downstream of Selim HEP, may not be feasible.
		downstream of Selim HEP, may not be feasible.
	TENTATIVE PROJECT FEATURES	downstream of Selim HEP, may not be feasible.
	TENTATIVE PROJECT FEATURES RESERVOIR	downstream of Selim HEP, may not be feasible.
	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL	downstream of Selim HEP, may not be feasible. El 1103.50 m
	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL	downstream of Selim HEP, may not be feasible. El 1103.50 m El 1105.50 m
	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL	downstream of Selim HEP, may not be feasible. El 1103.50 m El 1105.50 m El 1093.50 m
П	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL	downstream of Selim HEP, may not be feasible. El 1103.50 m El 1105.50 m El 1093.50 m 1.51 M Cum
П	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL	downstream of Selim HEP, may not be feasible. El 1103.50 m El 1105.50 m El 1093.50 m 1.51 M Cum 0.55 M Cum
П	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL	downstream of Selim HEP, may not be feasible. El 1103.50 m El 1105.50 m El 1093.50 m 1.51 M Cum
П	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL e) Capacity at MDDL	downstream of Selim HEP, may not be feasible. El 1103.50 m El 1105.50 m El 1093.50 m 1.51 M Cum 0.55 M Cum 0.957 M Cum
П	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL e) Capacity at MDDL c) Live storage Dam	downstream of Selim HEP, may not be feasible. El 1103.50 m El 1105.50 m El 1093.50 m 1.51 M Cum 0.55 M Cum 0.957 M Cum
21	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL e) Capacity at MDDL c) Live storage Dam a) Type	downstream of Selim HEP, may not be feasible. El 1103.50 m
П	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL e) Capacity at MDDL c) Live storage Dam a) Type b) Top elevation of dam -	El 1103.50 m El 1105.50 m El 1093.50 m El 1093.50 m El 1093.50 m El 1093.50 m El 1093.50 m El 1095.50 M Cum El 105.50 M Cum El 1105.50 m El 1105.50 m El 1105.50 m El 1105.50 m El 1105.50 m El 1105.50 m
21	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL e) Capacity at MDDL c) Live storage Dam a) Type b) Top elevation of dam c) Height of dam from bed upto FRL	El 1103.50 m El 1105.50 m El 1093.50 m O.55 M Cum O.957 M Cum Concrete gravity El 1105.50 m 33.50 m 35.50 m O.950 m
21	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL e) Capacity at MDDL c) Live storage Dam a) Type b) Top elevation of dam - c) Height of dam from bed upto FRL d) Height of dam from deepest foundation level	El 1103.50 m El 1105.50 m El 1093.50 m El 1093.50 m El 1093.50 m El 1093.50 m El 1093.50 m El 1095.50 M Cum El 105.50 M Cum El 1105.50 m El 1105.50 m El 1105.50 m El 1105.50 m El 1105.50 m El 1105.50 m
21	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL e) Capacity at MDDL c) Live storage Dam a) Type b) Top elevation of dam - c) Height of dam from bed upto FRL d) Height of dam from deepest foundation level e) Deepest foundation level	El 1103.50 m El 1105.50 m El 1093.50 m O.55 M Cum O.957 M Cum Concrete gravity El 1105.50 m 33.50 m St. 1070 m El 1070 m El 1070 m El 1070 m
21	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL e) Capacity at MDDL c) Live storage Dam a) Type b) Top elevation of dam - c) Height of dam from bed upto FRL d) Height of dam from deepest foundation level e) Deepest foundation level INTAKE	El 1103.50 m El 1105.50 m El 1093.50 m O.55 M Cum O.957 M Cum Concrete gravity El 1105.50 m 33.50 m 35.50 m O.950 m
21	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL e) Capacity at MDDL c) Live storage Dam a) Type b) Top elevation of dam - c) Height of dam from bed upto FRL d) Height of dam from deepest foundation level e) Deepest foundation level INTAKE a) Type	El 1103.50 m El 1105.50 m El 1093.50 m O.55 M Cum O.957 M Cum Concrete gravity El 1105.50 m 33.50 m St. 1070 m El 1070 m El 1070 m El 1070 m
21	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL e) Capacity at MDDL c) Live storage Dam a) Type b) Top elevation of dam - c) Height of dam from bed upto FRL d) Height of dam from deepest foundation level e) Deepest foundation level INTAKE a) Type b) Invert Level	downstream of Selim HEP, may not be feasible. El 1103.50 m El 1093.50 m 1.51 M Cum 0.55 M Cum 0.957 M Cum Concrete gravity El 1105.50 m 33.50 m 35.50 m El 1070 m Semi Circular with trash Rack
21	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL e) Capacity at MDDL c) Live storage Dam a) Type b) Top elevation of dam - c) Height of dam from bed upto FRL d) Height of dam from deepest foundation level e) Deepest foundation level INTAKE a) Type b) Invert Level Head Race Tunnel	El 1103.50 m
21 22 23	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL e) Capacity at MDDL c) Live storage Dam a) Type b) Top elevation of dam - c) Height of dam from bed upto FRL d) Height of dam from deepest foundation level e) Deepest foundation level INTAKE a) Type b) Invert Level Head Race Tunnel a) Type	downstream of Selim HEP, may not be feasible. El 1103.50 m El 1093.50 m 1.51 M Cum 0.55 M Cum 0.957 M Cum Concrete gravity El 1105.50 m 33.50 m El 1070 m Semi Circular with trash Rack El 1089.50 m Modified Florse Shoe
21 22 23	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL e) Capacity at MDDL c) Live storage Dam a) Type b) Top elevation of dam - c) Height of dam from bed upto FRL d) Height of dam from deepest foundation level e) Deepest foundation level INTAKE a) Type b) Invert Level Head Race Tunnel	downstream of Selim HEP, may not be feasible. El 1103.50 m El 1093.50 m 1.51 M Cum 0.55 M Cum 0.957 M Cum Concrete gravity El 1105.50 m 33.50 m 35.50 m El 1070 m Semi Circular with trash Rack El 1089.50 m Modified Horse Shoe 4784m
21 22 23	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL e) Capacity at MDDL c) Live storage Dam a) Type b) Top elevation of dam - c) Height of dam from bed upto FRL d) Height of dam from deepest foundation level e) Deepest foundation level INTAKE a) Type b) Invert Level Head Race Tunnel a) Type	downstream of Selim HEP, may not be feasible. El 1103.50 m El 1093.50 m I.51 M Cum 0.55 M Cum 0.957 M Cum Concrete gravity El 1105.50 m 33.50 m 35.50 m El 1070 m Semi Circular with trash Rack El 1089.50 m Modified Horse Shoe 4784m 3.00 m Ф
21 22 23	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL e) Capacity at MDDL c) Live storage Dam a) Type b) Top elevation of dam - c) Height of dam from bed upto FRL d) Height of dam from deepest foundation level e) Deepest foundation level INTAKE a) Type b) Invert Level Head Race Tunnel a) Type b) Length c) Diameter	Concrete gravity El 1105.50 m 33.50 m El 1070 m
21 22 23	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL e) Capacity at MDDL c) Live storage Dam a) Type b) Top elevation of dam - c) Height of dam from bed upto FRL d) Height of dam from deepest foundation level e) Deepest foundation level INTAKE a) Type b) Invert Level Head Race Tunnel a) Type b) Length c) Diameter d) Design Discharge	downstream of Selim HEP, may not be feasible. El 1103.50 m El 1093.50 m I.51 M Cum 0.55 M Cum 0.957 M Cum Concrete gravity El 1105.50 m 33.50 m 35.50 m El 1070 m Semi Circular with trash Rack El 1089.50 m Modified Horse Shoe 4784m 3.00 m Ф
21	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL e) Capacity at MDDL c) Live storage Dam a) Type b) Top elevation of dam - c) Height of dam from bed upto FRL d) Height of dam from deepest foundation level e) Deepest foundation level INTAKE a) Type b) Invert Level Head Race Tunnel a) Type b) Length c) Diameter d) Design Discharge e)Max. Design Discharge	downstream of Selim HEP, may not be feasible. El 1103.50 m
21 22 23 24	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL e) Capacity at MDDL c) Live storage Dam a) Type b) Top elevation of dam - c) Height of dam from bed upto FRL d) Height of dam from deepest foundation level e) Deepest foundation level INTAKE a) Type b) Invert Level Head Race Tunnel a) Type b) Length c) Diameter d) Design Discharge e)Max. Design Discharge Pressure Shaft	El 1103.50 m El 1105.50 m El 1093.50 m El 105.50 m El 1105.50 m El 1105.50 m El 1105.50 m El 1105.50 m El 1070 m El 1070 m El 1070 m El 1070 m El 1089.50 m El
21 22 23 24	TENTATIVE PROJECT FEATURES RESERVOIR a) FRL b) MWL c) MDDL d) Gross storage at FRL e) Capacity at MDDL c) Live storage Dam a) Type b) Top elevation of dam - c) Height of dam from bed upto FRL d) Height of dam from deepest foundation level e) Deepest foundation level INTAKE a) Type b) Invert Level Head Race Tunnel a) Type b) Length c) Diameter d) Design Discharge e)Max. Design Discharge	downstream of Selim HEP, may not be feasible. El 1103.50 m

	SURGE SHAFT	Restricted Orifice
26	a) Type	15,00 m
20	b) Diameter	53.00 m
	c) Height upto Ground Level	53.61
	POWER HOUSE	Surface
	a) Type	Surface
	b) Size (L X B)	1014 m
27	i) Machine Hall	40 m x 14 m
21	ii)Service/Erection Bay	13 m x 14 m
i,	iii)Auxiliary Bay	27 m x 14 m
	c) Installed Capacity	2 X 29MW
	d) NTWL	713.30 m
	Tail Race Tunnel	
28	a) Length	50 m
	b) Height	2.50 m
	c) Width	5.70 m
	TURBINE	
	a) Type of Turbine	FRANCIS
29	b) Gross Head	390.20 m
	c) Rated net Head	369.13 m
	d) Maximum Design Head	381.40 m
	e) Minimum Design Head	344.60 m

Please give brief details about the HE Scheme and enclose a layout map.

Brief details on Selim H.E. Project:

The Selim Hydro Electric Project envisages construction of concrete gravity dam of about 33.50m high from the deepest river bed level across river Myntdu to provide a live storage of 0.957 M Cum with FRL at El 1103.50 m and MDDL at El 1093.50 m, 4.784 Km long and 3.00 m dia circular Head Race Tunnel terminating in a 53.00 m high 15.00 m dia surge shaft, 2.30 m dia orifice, a surface power house having an installation of 2(two) nos of Francis type generating units of 29 MW each operating under a rated head of 369.13 m.

It is the uppermost hydro electric project in a series of the proposed hydel projects on the Myntdu river. It envisages utilization of the water of the river Myntdu for power generation on a Run of the River (ROR) type development, hamessing a gross head of about 390.20 m. The project with a proposed installation of 58MW (2X29MW) will provide Annual Energy Benefit of 194.29 MU in a 90% dependable year.

Name:Smti.I. War

Designation: Executive Engineer (C) Telephone Nozion Divisi Code No.

MePGCL, Umiam

STATUS OF SURVEY & INVESTIGATION OF HE SCHEMES (PART- II)

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j Envir		Observation, compilation and computation of hydrometeological data of the project are persistent activities. I. January - March, 2024 Preparing estimate for Repairing of Temporary Barrack and
	nronnientai Survey	Observation, compilation and computation of hydrometeological data of the project are persistent activities. I. January - March, 2024 Preparing estimate for Repairing of Temporary Barrack and
	ogramme of works during the year	Calibration of rain gauge instruments at different rainfall stations. II. April - June, 2024 Monitoring the Repairing of the Temporary Barrack, Monitoring the Exploratory Drilling and Water Percolation Test and logging of Cores sample of BH – 6 (Along the WCS), BH – 8 (Surge Shaft), BH – 10, BH – 11 and BH - 12 (Right Bank of Dam Axis). Monitoring the Discharge and Rainfall data collection. III. July - September, 2024 Monitoring the Exploratory Drilling and Logging of cores sample of BH – 9 (Centre of Power House), BH – 13, 14, 15, 16, 17 (Corner and Back Slope of Power House). Collecting silt sample for laboratory test, collecting of water samples for laboratory test from G&D site, Monitoring Discharge and Rainfall observations. IV. October - December, 2024 Monitoring the Exploratory Drilling and Logging of cores sample of BH – 4 (Intake), BH – 5 (Bucket Area), Construction of Kutcha road to Dam axis, Exploratory Drift on both the left and right bank of Dam axis, in - situ test, logging of cores sample along the WCS and Power House, Dam module studies by CWPRS,Pune, Reserve Seismic sensitivity test, Seismic refraction survey, Electro-resistivitest at Power House and Switchyard,Preparation of general layout the project
l Over		71%
	erall progress of works	1/1/0
	erall progress of works	
	ological and foundation Investigation	In progress
	ological and foundation Investigation In case it is not possible to give tentative quantity it s	In progress should be given as percentage Financial Progress.
9 Capi	ological and foundation Investigation In case it is not possible to give tentative quantity it s imated cost of Survey & Investigation with price lev	In progress should be given as percentage Financial Progress, el year
10 Bud 11 Revi	ological and foundation Investigation In case it is not possible to give tentative quantity it s	In progress should be given as percentage Financial Progress.

BOTTLLE NECKS, IF ANY

- 1.Limited working days (approx) 6 months in a year.
- 2. Harsh topography and remoteness of the project area
- 3. Irregular availability of the official expert of the concerned Government agencies/department who are to carry out the study /information of the respective aspects of the Detailed Project Report(DPR) of the project.
- 4. Land holding system-The land of the project areas are privately owned and issuing of NOC for S&I of the project takes a considerable amount of time.
- 5. Scarcity of local firms/contractors capable of carrying out the S&I works such as topographical survey and exploratory drilling of the project.
- 6. The official formalities such as trading license and labour licenses etc. are some of the reasons where the agencies/firms from outside the state are reluctant to take up the S&I works in Meghalaya.
- 7. Compliances to the observation of the concerned Directorates/Divisions/organisations, etc. under CEA by the expert agencies/departments are received after much delay.

Name:Smti.I.War

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Telephone No Engineer (Code No
Investigation Division-II

MePGCL, Umiam

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