

STATUS OF SURVEY & INVESTIGATION OF HE SCHEMES		
(PART I)		
NAME OF SCHEME Selim HE Project /Storage, 2x48 (MW)		
GENERAL INFORMATION		
1	State	Meghalaya
2	Location -	Damsite-Between East & West Jaintia Hills District, near Unsalang village
a	Latitude of Dam	25° 21' 41 " N,
b	Longitude of Dam	92° 11' 30 " E,
General layout /Index map may please be furnished		
3	District	East & West Jaintia Hills District
4	Nearest G&D site	Damsite
5	Catchment Area near G&D site	170.80 Sq.Km
6	Status of availability of G&D site	Established since May 2006.
7	Basin/River	Myntdu
8	Catchment Area (Sq.km)	170.80 Sq.Km
9	Type of Scheme (ROR/Storage/PSS)	ROR scheme
10	Firm Power (MW)	2.39 MW
11	Annual Energy Benefits (GWh)	315.67MU in 90 % Dependable year
12	Inter State Aspects	Does not arise
13	International Aspects	NIL
14	Defense aspects	No defense installations
15	R&R Aspects	Does not arise.
16	Forests area involved	Detail Investigation to be taken up
17	Geological problems anticipated, if any	Sub-surface investigation is to be carried out.
18	Accessibility-Nearest Rail head/ Road and distance from the project.	Nearest Rail Head: Guwahati - 193 Km. Nearest Road: 5 Km from Mupyut (PWD Road), West Jaintia Hills District.
19	Upstream scheme, if any -	Nil
20	Downstream scheme, if any. -	Commissioned Leshka-I (3X42 MW), Proposed Leshka-II (3X70 MW). As per the MoEF guidelines, the proposed Suchen HEP, just downstream of Selim HEP, may not be feasible.
II PROJECT FEATURES		
21	RESERVOIR	
	a) FRL/MWL	1103.50 m
	b) MDDL	1093.50 m
	c) Gross storage at FRL	1.505Mcm
	d) Capacity at MDDL	0.548 Mcm
	e) Live storage	0.957Mcm
22	Dam	
	a) Type	Concrete gravity
	b) Top elevation of dam -	1105.50 m
	c) Height of dam above the river bed level	34.5 m
	d) Deepest foundation level	1069 m
22	INTAKE	
	a) Type	Semi Circular eith atrash Rack
	b) Invert Level	1089.50 m
23	Head Race Tunnel	
	a) Type	Modified Horse Shoe
	b) Length	4688m
	c) Diameter	3.5 m Φ
	d) Design Discharge	30.794 Cumecs

24	HPT	
	a) Diameter	2.8 m
	b) Length	90.0 m
25	SURGE SHAFT	
	a) Type	Restricted Orifice
	b) Diameter	15 m
	c) Height upto G.L	53 m
26	PENSTOCK	
	a) Diameter	2.8 m
	b) Length	1457 m
27	POWER HOUSE	
	a) Type	Surface
	b) Size (LXB)	
	i) Machine Hall	42 m x 13 m
	ii) Service/Erection Bay	16m x 13 m
	iii) Auxiliary Bay	22 m x 13 m
	c) Installed Capacity	2X48 MW
	d) NTWL	716 m
28	TAIL RACE CHANNEL	
	b) Length	50.00 m
	c) Height	2.5 m
	d) Width	5.7 m
29	TURBINE	
	a) Type of Turbine	PELTON
	b) Maximum Gross Head	387.50 m
	c) Minimum Gross Head	377.50 m
	d) Rated net Head	345.417 m
Please give brief details about the HE Scheme and enclose a layout map.		
Brief details on Selim H.E. Project:		
<p>The proposed Selim H.E. Project Dam is locate between East and West Jaintia Hills District of Meghalaya is the uppermost hydro electric project in a series of 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, harnessing an average gross head of about 382.50 m. The project with a proposed installation of 96 MW (2X48MW).</p> <p>The diversion site is located at Latitude 25° 21' 41" N, and Longitude 92° 11' 30" E. The damsite is approachable from Mupyut village on Shillong – Dawki highway at a distance of 20 kms from Jowai and 85 Km from Shillong. The nearest rail head and airport are located at Guwahati and Umroi respectively.</p> <p>The Selim HE project envisages construction of 34.5 m high concrete gravity dam from the deepest foundation level across river Myntdu to provide a live storage of 0.957 mcm with FRL at 1103.50 m and MDDL at 1093.50 m, 4.688 Km long and 3.5 m dia circular Head Race Tunnel terminating in a 53 m high 15.00 m dia surge shaft, 1457.00 m long, 2.80 m dia penstock, a surface power house having an installation of 2(two) nos of PELTON type generating units of 48 MW each operating under a rated head of 345.4173 m.</p>		

(Signature)

Name: Shri. Q. Marbaniang

Designation: Executive Engineer (C)

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STATUS OF SURVEY & INVESTIGATION OF HE SCHEMES			
(PART- II)			
Quarter Ending September, 2018			
NAME OF SCHEME SURVEY & INVESTIGATION		Selim HE Project 2x48 (MW)	
1	Date of commencement of S&I	2006-2007(Hydrological observation)	
2	Date of Sanction	NEC/IRGN/MEG/2K/3/821 Dt.25.03.2008	
3	Likely date of completion of S& I	2019	
4	Likely date of completion of DPR	2020	
5	Estimated cost of S&I/DPR and Phasing of Expenditure	Rs. 450.00 Lakh	
	Revised Estimate Cost	Rs. 792.00 Lakh	
6	Agency of Investigation (in case of Pvt.Agency, Name, Designation, Complete Address, telephone no. & Fax No. is to be indicated).	Meghalaya Power Generation Corporation Limited.	
7	Details of Progress @	Quantity Done	Quantity to be done
		50%	40%
a	Tracer Path & Approaches	50%	
b	Roads	50%	
c	Construction of Temp. Building	Completed	
d	Purchase of Special T &P	To be taken up	
e	Topographic Survey/Investigation	In progress	
f	Const. Material (CA&FA)	50%	
g	Hydrological observations	Data collection since June 2006	
h	Meteorological	Data collected since June 2006	
i	Environmental Survey	5%	
j	Programme of works during the year	<p>Observation, compilation and computation of hydrometeorological data of the project are persistent activities.</p> <p>I. January - March, 2018 Preparing drawing (L-section) for the different alternative alignment, checking of rain gauge instruments at different rainfall stations, Inspection for location of newly proposed alternative alignment, carrying out level from old power house to newly proposed power house location of alternative II & III for observing the height difference, identification of Quarry site for coarse aggregate, estimate for repairing of site camp at G&D site, Construction of gauge pillar and taking cross section at discharge site.</p> <p>II. April - June, 2018 Collection of aggregate samples and sample-2 for laboratory test from G&D site, making tracepath/footpath to the new proposed power house location (Alt-II), Jungle clearance along the road alignment survey to different project components, estimate for carrying out detailed contour survey and fixing alignment for Alternative-II, Detailed contour survey and fixing the new alignment including setting up of Bench Mark pillars along the alignment and Geological mapping (WCS, Surge Shaft and Power House) Alt-II, Physical and Chemical test of Fine agg and Coarse aggs.</p> <p>III. July - September, 2018 Collecting silt sample, collecting and send to laboratory test of water sample-3 from G&D site.</p> <p>IV. October - December, 2018 Observing HFL at Dam site and Power House, making drift on both right and left bank of the dam, Drilling along Dam area, WCS and Power House, Site Specific Design Parameters Study, Land acquisition survey of the submergence area, preparation of general layout of the project.</p>	
k	Overall progress of works	50%	
l	Geological and foundation Investigation	In progress	
@ In case it is not possible to give tentative quantity it should be given as percentage Financial Progress.			

8	Estimated cost of Survey & Investigation with price level year	
9	Capital Expenditure incurred upto March 2018	Rs. 221.80 Lakh
10	Capital Expenditure incurred upto June 2018	Rs. 222.69 Lakh
11	Capital Expenditure incurred upto September 2018	Rs. 225.73 Lakh
12	Budget estimate	
13	Revised Estimate	
BOTTLE NECKS, IF ANY		
<p>Limited working days (approx. 6(six) months in a year), Difficult Terrain and remoteness of the project area, Shortage of Manpower, irregular allocation/release of fund, Inaccuracy of toposheet covering the project, account to revision of project components result in delay of S&I works.</p>		

(Signature)

Name:Er. Q. Marbaniang

Designation:Executive Engineer (C)

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