

STATUS OF SURVEY & INVESTIGATION OF HE SCHEMES

(PART I)

NAME OF SCHEME Mawblei HE Project /Storage, 2x37.5 (MW)

GENERAL INFORMATION

1. State	Meghalaya
2. Location -	Near village Nongmawlong
a) Latitude of Dam	25° 31' 36.96" N,
b) Longitude of Dam	91° 02' 14.40" E,
General layout /Index map may please be furnished	
3. District	West Khasi Hills District
4. Nearest G&D site	Near the dam site axis
5. Catchment Area near G&D site	218.00 Sq.Km
6. Status of availability of G&D site	Set up since 2006, 1Km upstream of the Dam site.
7. Basin/River	Wahblei
8. Catchment Area (Sq.km)	218.00 Sq.Km
9. Type of Scheme (ROR/Storage/PSS)	Storage scheme
10. Firm Power (MW)	15.75 MW (Revised)
11. Annual Energy Benefits (GWh)	i) 277.08 GWh in 90% dependable year ii) 322.20 GWh in 50% 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 study 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, 85 Km Nearest Road: 10 Km from Mawkhap, West Khasi Hills District on NH 44 E (Shillong-Tura SH)
19. Upstream scheme, if any -	Nil
20. Downstream scheme, if any. -	Kynshi Stage-II HEP

II PROJECT FEATURES

21. Type of Diversion Structure/Tunnel	
a) Number	1 no
a) Size	2.40 m Φ
b) Diversion	71.51 cumecs
c) MDDL	750.80 m
e) Live /Storage	20.61 M Cum
22. Dam	
a) Type -	Concrete
b) Top elevation of dam -	El 764 .00 M
c) Height of dam above the river bed level -	36.37 m
d) Length of dam at top-	250.14 m
e) River bed level -	El 727.63 m
23. Water conductor system	
a) Type -	Horse Shoe
b) Length -	1.77 Km
c) Diameter -	3.00 m Φ

24. Power House
- | | |
|---------------------|----------------------|
| a) Type - | underground |
| b) No. of units- | 2 units (2X37.50 MW) |
| c) Rated Head (m) – | 367.34 m |
25. Tail Race Water conductor System
- | | |
|-----------------|---------------|
| a) Type - | Horse shoe |
| b) Length (m) - | 4.71 Km |
| c) Size - | 4.00 m Φ |
| d) TWL (m) - | 372.00 |

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

Brief details on Mawblei H.E.Project:

Mawblei H.E.Project, proposed to be located in Mawshynrut C&RD Block, West Khasi Hills District of Meghalaya, is a storage type development which envisages construction of a concrete gravity dam of about El. 36.37 m high on river Wah Blei, a tributary of river Kynshi, where the river bed is about El. 727.63m to provide a live storage of 26.61 MCM between the FRL of 762.00 m and the MDDL of 750.80 M. water from the reservoir are proposed to be diverted to an underground power house through a 1.77 M long modified house shoe shaped low pressure tunnel of 3.0 M dia. and a 0.6 Km long pressure shaft of 2.25 m dia. bifurcating into 2 of 1.6 m dia. for power generation. The power house would have an installation of 2 units of 37.5 MW each operating under weighted average gross head of 385.3 m (Net Head=373.37 m). The project is proposed to provide annual design energy generation of 277.08MU in a 90% dependable year.

(Signature)

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 Designation:Executive Engineer (C)
 Telephone No.....Code No
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**STATUS OF SURVEY & INVESTIGATION OF HE SCHEMES
(PART- II)**

Quarter Ending December, 2016

NAME OF SCHEME	Mawblei HE Project	2x37.5 (MW)
SURVEY & INVESTIGATION		
1. Date of commencement of S&I observation)	2006-2007(Hydrological	
2. Date of Sanction Dt.23.01.2009	NEC/IRGN/MEG/2K/5/408	
3. Likely date of completion of S& I	2016-2017	
4. Likely date of completion of DPR	2018.	
5. Estimated cost of S&I/DPR and Phasing of Expenditure	Rs. 472.00 Lakhs	
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
75%	25%

a) Tracer Path & Approaches	Trace Path completed
b) Roads	In Progress
c) Construction of Temp. Building	Completed
d) Purchase of Special T &P	To be taken up
e) Topographic Survey/Investigation	Completed
f) Const. Material (Survey/Testing)	In Progress
g) Hydrological observations	Data collection since June 2006
h) Meteorological	Data collected since June 2006
i) Environmental Surveys	In Progress
j) Programme of works during the year computation	Observation, compilation and
	of hydrometeorological data of the project, test of fine and course aggregates samples collected from identified quarries, preparation of preliminary report proposal for the project, carrying out the hydrological study, preparation of layout and detailed investigation plans, geological aspects of the project.
k) Overall progress of works	75%
l) Geological and foundation Investigations	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	Rs. 472.00	Lakhs
9. Expenditure incurred upto June, 2016	Rs. 436.63	Lakhs
10. Expenditure incurred upto September, 2016	Rs. 437.26	Lakhs
11. Expenditure incurred upto December, 2016	Rs. 453.95	Lakhs
12. Budget Estimate		
13. Revised Estimate 2016 -17		
14. Budget Estimate 2016 - 17		

BOTTLE NECKS, IF ANY

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.

(Signature)

Name:Er. Q.

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