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मेघालय MEGHALAYA

00AA 888836

St. Instrument No. 04
Date 04/12/2020

BEFORE THE HON'BLE MEGHALAYA STATE ELECTRICITY REGULATORY COMMISSION

FILE/PETITION NO. ...

IN THE MATTER OF:

MULTI YEAR TARIFF FOR FY 2021-22 TO FY 2023-24 & DETERMINATION OF GENERATION TARIFF FOR FY 2021-22 (FOR OLD PLANTS INCLUDING SONAPANI) UNDER THE MEGHALAYA STATE ELECTRICITY REGULATORY COMMISSION (MULTI YEAR TARIFF) REGULATIONS, 2014 AND UNDER SECTIONS 62 & 64 READ WITH SECTION 86 OF THE ELCTRICITY ACT, 2003

AND IN THE MATTER OF:

MEGHALAYA POWER GENERATION CORPORATION LIMITED, LUMJINGSHAI SHORT ROUND ROAD, SHILLONG – 793001, MEGHALAYA

PETITIONER

AFFIDAVIT VERIFYING THE PETITION

I, Shri Amberlight Lyngdoh, aged about 57 years, son/ ~~daughter~~ of (L) H.R. Diengdoh, residing at MeECL Colony, Umiam, Ri-Bhoi District, and working as Superintending Engineer (PM), in the Office of the Director (Generation), MePGCL, Lumjingshai, Shillong,

STARY
OF MEGHALAYA

having its registered Office at Lum Jingshai, Short Round Road, Shillong do solemnly affirm and state as under:

1. That I am the Superintending Engineer (PM), at Meghalaya Power Generation Corporation Limited, the representative of the Petitioner in the above matter and I am duly authorized to make this affidavit.
2. That the statement made in the petition herein is based on petitioner company official record maintained in the ordinary course of business and I believe them to be true and correct.
3. That the documents attached with this affidavit are legible copies.

DEPONENT

VERIFICATION

Solemnly affirm at Shillong on this 4th day of December, 2020 that the contents of the above affidavit are true to my knowledge and belief and no part of it is false and no material has been concealed there from.

DEPONENT

NOTARY
N KHARNARBI
EAST KHASI HILLS DISTRICT
GOVT OF MEGHALAYA

04/12/2020
NELSON KHARNARBI
NOTARY
East Khasi Hills District
Government of Meghalaya

ANNEXURE-A

MEGHALAYA POWER GENERATION CORPORATION LIMITED

Office of the Company Secretary
Corporate Identification Number: U40101ML2009SGC008392
Registered Office: LumJingshai, Short Round Road, Shillong-793001
Telephone No: 0364-2591074; Fax no: 0364-2590355; Website address: www.meecl.nic.in

RELEVANT EXTRACT OF THE RESOLUTION PAASED BY THE BOARD OF DIRECTORS OF THE MEGHALAYA POWER GENERATION CORPORATION LIMITED PASSED THROUGH CIRCULATION BEARING NO. MePGCL/CS/CR/2013/24 DATED 4TH DECEMBER, 2020

SUBJECT - FILING OF MULTI YEAR TARIFF (MYT) PETITIONS FOR OLD STATIONS (INCLUDING SONAPANI), MYNTDU LESHKA, NEW UMTRU AND LAKROH POWER STATIONS FOR THE 3RD CONTROL PERIOD FY 2021-22 TO FY 2023-24.

"Resolved that the Board of Directors hereby approves the Multi Year Tariff Petition(s) for the 3rd Control Period for Financial year 2021-22, 2022-23 and 2023-24 in respect of the power generating stations of the MePGCL with Net Annual Fixed Cost, as mentioned below:

Net Annual Fixed Cost (Amount in Rs. in crore)				
Financial Year	Old Stations including Sonapani	Myntdu Leshka HEP	New Umtru HEP	Lakroh HEP
2021-22	137.60	221.69	116.57	4.20
2022-23	164.85	216.94	113.90	4.35
2023-24	240.71	212.83	111.30	4.42

Resolved that the Board of Directors hereby approves the petition for Determination of Generation tariff for the financial year 2021-22 in respect of the power generating stations of the MePGCL with Net Annual Fixed Cost, as mentioned below:

Net Annual Fixed Cost (Amount in Rs. in crore)			
Old Stations including Sonapani	Myntdu Leshka HEP	New Umtru HEP	Lakroh HEP
78.45	179.71	103.24	4.20

Resolved further that the Board approves Rs. 15,75,100/- (Rupees fifteen lakh seventy five thousand one hundred) only as the petition fee for filing the above mentioned Multi Year Tariff Petition(s) before the Meghalaya State Electricity Regulatory Commission (MSERC), detailed as below:

(i) Rs. 6,87,100/- for Old stations and Sonapani
(ii) Rs. 4,98,000/- for Myntdu Leshka Hydro Electric Project
(iii) Rs. 2,40,000/- for New Umtru Hydro Electric Project
(iv) Rs. 1,50,000/- for Lakroh Hydro Electric Project

Resolved further that Sri Amberlight Lyngdoh, Superintending Engineer (PM), O/o the Director (Generation) is hereby authorised by the Board to sign, execute and submit the above Multi Year Tariff Petition(s) before the MSERC along with applications, affidavits and any other necessary documents, clarifications, replies, changes etc. as required in this regard, from time to time, for and on behalf of the Corporation."

CERTIFIED TO BE TRUE COPY
FOR, MEGHALAYA POWER GENERATION CORPORATION LTD

4/12/21
Company Secretary

ANNEXURE - F

To,
The Chief Accounts Officer
MePGCL,
Shillong

Date: 27th November, 2020

SE (PM)
27.11.20

Reference : ACT/COMP/MePGCL/TP/MYT-2015-16/310/107 dated 27.11.2020
Subject : Work Order for Certification of Capital Cost of Lakroh Mini Hydel Project (1X1.5 MW)

Dear Sir,

With respect to the reference cited above, I am pleased to attach the Certification of Net value of the fixed assets of MePGCL and Old Station as on 31.03.2019.

Also attached is my invoice for the certification work, for your kind perusal.

Thanks and Regards,

For VSVG & Co
Partner

CA Mahendra Jain
Partner,
VSVG & Co.

Enclosures:

1. Certificate
2. Invoice

Copy to:

1. The Superintending Engineer (PM), O/o the Director (Generation), MePGCL, Shillong

VSVG & CO.
Chartered Accountants

401, CA Chambers, 18/12, W.E.A.,
Karol Bagh, New Delhi-110 005
Phone : +91 11 45098125
Telefax : +91 11 28759461
E-mail : vsvgco@yahoo.com
Web.: www.vsvgco.icai.org.in

Certificate

Certified that the Net Fixed Asset Valueof Meghalaya Power Generation Corporation Limited as on 31.03.2019 was as follows:

Particulars	Gross Fixed Assets (WITHOUT IND AS ADJUSTMENT)	Accumulated Depreciation (WITHOUT IND AS ADJUSTMENT)	Net Fixed Asset as on 31.03.2019
Land	31,51,44,580	-	31,51,44,580
Building	2,56,89,31,626	48,33,26,247	2,08,56,05,379
Hydraulic Works	10,71,58,28,382	3,76,80,48,686	6,94,77,79,696
Civil Works	1,82,51,57,738	46,47,14,500	1,36,04,43,238
Plant & Equipment	7,77,08,69,735	2,82,00,71,500	4,95,07,98,236
Lines & Cables	12,69,21,196	4,29,38,961	8,39,82,235
Vehicles	2,26,71,447	1,62,12,954	64,58,494
Furniture & Fixtures	2,51,59,154	1,58,44,918	93,14,237
Office Equipment	1,94,58,701	1,13,47,630	81,11,071
Assets not in use	15,54,504	-	15,54,504
Total	**23,39,16,97,065**	**7,62,25,05,395**	**15,76,91,91,669**

Note:

1. The above chart includes the amount transferred from Meghalaya Energy Corporation Limited, the Holding Company vide notification number Power 79/2009/Pr-1/422 dated 29/04/2015 issued under the Meghalaya Power Sector Transfer Scheme, 2010

2. The above value of the assets is as per the historical cost less depreciation standing in the BOD approved books of accounts as on 31st March, 2019 on the basis of which this certificate has been prepared. These assets have not been physically verified by me.

3. The depreciation on the above assets has been charged as specified under CERC guidelines followed by the Corporation and not as per the Companies Act.

4. The gross fixed assets and depreciation as per the BOD approved statements and as per the books of account do not tally due to IND AS adjustment on the gross value of fixed assets and accumulated depreciation carried over from 01.04.2015. The Net Fixed Assets value as on 31.03.2019 is the same in both.

VSVG & CO.
Chartered Accountants

401, CA Chambers, 18/12, W.E.A.,
Karol Bagh, New Delhi-110 005
Phone : +91 11 45098125
Telefax : +91 11 28759461
E-mail : vsvgco@yahoo.com
Web.: www.vsvgco.icai.org.in

5. The above values of fixed assets are before IND AS adjustment. As such, the gross block of assets and accumulated depreciation figure do not match with audited financials with the same difference.

Certified:

Mahendra Jain
For VSVG & Co.
Chartered Accountant
Mem No. 224700
Partner,
VSVG & Co
Firm No - 005100N

UDIN:20224700AAAABQ5162
Date: 27th November, 2020

VSVG & CO.
Chartered Accountants

401, CA Chambers, 18/12, W.E.A.,
Karol Bagh, New Delhi-110 005
Phone : +91 11 45098125
Telefax : +91 11 28759461
E-mail : vsvgco@yahoo.com
Web.: www.vsvgco.icai.org.in

Certificate

Certified that the Net Fixed Asset Valueof Old stations of Meghalaya Power Generation Corporation Limited(Umiam Stage -I,Umiam Stage-II, Umiam Stage-III,Umiam Stage-IV,Umtru Power Station and Sonapani HEP)as on 31.03.2019 was as follows:

Particulars	Gross Fixed Assets (WITHOUT IND AS ADJUSTMENT)	Accumulated Depreciation (WITHOUT IND AS ADJUSTMENT)	Net Fixed Asset as on 31.03.2019
Land	7,20,34,989.94	-	7,20,34,989.94
Building	13,10,45,890.75	10,48,94,890.16	2,61,51,000.59
Hydraulic Works	1,28,68,22,126.95	1,20,17,94,112.27	8,50,28,014.68
Civil Works	25,77,90,193.45	16,85,94,226.90	8,91,95,966.55
Plant & Equipment	2,45,25,09,397.78	1,35,98,54,495.55	1,09,26,54,902.23
Lines & Cables	3,40,86,785.87	2,29,19,587.11	1,11,67,198.76
Vehicles	1,76,38,509.44	1,38,97,663.74	37,40,845.71
Furniture & Fixtures	2,34,87,023.38	1,54,70,488.22	80,16,535.16
Office Equipment	1,74,30,820.08	1,05,05,652.45	69,25,167.63
Total	**4,29,28,45,737.64**	**2,89,79,31,116.39**	**1,39,49,14,621.25**

Note:

1. The above chart includes the amount transferred from Meghalaya Energy Corporation Limited, the Holding Company vide notification number Power 79/2009/Pr-1/422 dated 29/04/2015 issued under the Meghalaya Power Sector Transfer Scheme, 2010

2. The above value of the assets is as per the historical cost less depreciation standing in the BOD approved books of accounts as on 31st March, 2019 on the basis of which this certificate has been prepared. These assets have not been physically verified by me.

3. The depreciation on the above assets has been charged as specified under CERC guidelines followed by the Corporation and not as per the Companies Act.

4. The gross fixed assets and depreciation as per the BOD approved statements and as per the books of account do not tally due to IND AS adjustment on the gross value of fixed assets and accumulated depreciation carried over from 01.04.2015. The Net Fixed Assets value as on 31.03.2019 is the same in both.

VSVG & CO.
Chartered Accountants

401, CA Chambers, 18/12, W.E.A.,
Karol Bagh, New Delhi-110 005
Phone : +91 11 45098125
Telefax : +91 11 28759461
E-mail : vsvgco@yahoo.com
Web.: www.vsvgco.icai.org.in

5. The above values of fixed assets are before IND AS adjustment. As such, the gross block of assets and accumulated depreciation figure do not match with audited financials with the same difference.

Certified:

Mahendra Jain

For VSVG & Co.

Partner

Chartered Accountant
Mem No. 224780
Partner,
VSVG & Co
Firm No - 005100N

UDIN: 20224700AAAABP2011
Date: 27th November, 2020

TOTAL ASSETS OF MePGCL For FY 2018-19 (Without incorporation of Ind AS Adjustment)

MePGCL

Sl No	Asset Group	Account Code	GROSS BLOCK				ACCUMULATED DEPRECIATION				NET BLOCK	
			As at 31.03.2018	Addition during the year	Deduction during the year	As at 31.03.19	As at 31.03.2018	Depreciation during the year	Adjustment or Deduction	As at 31.03.19	As at 31.03.2018	As at 31.03.19
1	Land & Land Rights	10.1	31,10,50,601	40,93,979		31,51,44,580				-	31,10,50,601	31,51,44,580
2	Buildings	10.2	2,54,64,45,848	2,25,47,885	62,108	2,56,89,31,626	39,98,42,858	8,34,93,529	(10,140)	48,33,26,247	2,14,66,02,990	2,08,56,05,379
3	Hydraulic Works	10.3	10,62,47,45,231	9,37,95,759	27,12,608	10,71,58,28,382	3,25,32,95,865	51,53,37,660	(5,84,838)	3,76,80,48,686	7,37,14,49,366	6,94,77,79,696
4	Other Civil Works	10.4	1,80,24,55,439	2,31,77,983	4,75,684	1,82,51,57,738	40,48,96,939	5,98,50,661	(33,100)	46,47,14,500	1,39,75,58,501	1,36,04,43,238
5	Plant & Machinery	10.5	7,67,32,78,274	9,82,47,203	6,55,742	7,77,08,69,735	2,42,84,58,311	39,17,50,607	(1,37,418)	2,82,00,71,500	5,24,48,19,963	4,95,07,98,236
6	Lines & Cable Network	10.6	11,16,14,752	1,53,06,444		12,69,21,196	3,78,74,874	50,64,087		4,29,38,961	7,37,39,879	8,39,82,235
7	Vehicles	10.7	2,26,71,447	-		2,26,71,447	1,51,56,236	10,56,718		1,62,12,954	75,15,212	64,58,494
8	Furniture & Fixtures	10.8	2,50,36,883	8,90,027	7,67,756	2,51,59,154	1,45,01,801	13,43,117		1,58,44,918	1,05,35,082	93,14,237
9	Office Equipment	10.9	1,90,88,444	3,70,257		1,94,58,701	1,01,95,144	11,52,485		1,13,47,630	88,93,300	81,11,071
10	Asset not in use	16	15,54,504			15,54,504				-	15,54,504	15,54,504
	TOTAL		23,13,79,41,425	25,84,29,538	46,73,898	23,39,16,97,065	6,56,42,22,027	1,05,90,48,864	(7,65,496)	7,62,25,05,395	16,57,37,19,398	15,76,91,91,669
	Total excluding Asset not in use		23,13,63,86,921	25,84,29,538	46,73,898	23,39,01,42,561	6,56,42,22,027	1,05,90,48,864	(7,65,496)	7,62,25,05,395	16,57,21,64,894	15,76,76,37,165

For VSVG & Co.

Partner

Senior Accounts Officer,
MeECL, Shillong.

Without taking the effect of Ind AS Adjustment

Old station(Umiam Stage -I,Umiam Stage-II, Umiam Stage-III,Umiam Stage-IV,Umtru Power Station and Sonapani HEP)

Particulars	*Gross Fixed Asset (as on 31.3.2019)*	Accumulated Depreciation	Net Fixed Asset (as on 31.3.2019)
Land	7,20,34,989.94	-	7,20,34,989.94
Building	13,10,45,890.75	10,48,94,890.16	2,61,51,000.59
Hydraulic Works	1,28,68,22,126.95	1,20,17,94,112.27	8,50,28,014.68
Civil Works	25,77,90,193.45	16,85,94,226.90	8,91,95,966.55
Plant & Equipment	2,45,25,09,397.78	1,35,98,54,495.55	1,09,26,54,902.23
Lines & Cables	3,40,86,785.87	2,29,19,587.11	1,11,67,198.76
Vehicles	1,76,38,509.44	1,38,97,663.74	37,40,845.71
Furniture & Fixtures	2,34,87,023.38	1,54,70,488.22	80,16,535.16
Office Equipment	1,74,30,820.08	1,05,05,652.45	69,25,167.63
Total	4,29,28,45,737.64	2,89,79,31,116.39	1,39,49,14,621.25

For VSVG & Co.

Partner

Senior Accounts Officer,
MeECL, Shillong.

Assets of MLHEP, NUHEP and LAKROH

A/C Code	Particulars	MLHEP w.e.f 2012-13 to 2018-19	NUHEP w.e.f July 2017 to 2018-19	Lakroh w.e.f March 2019	Total	MePGCL GFA before Ind AS Adjustment	Old Station
		A	B	C	D=A+B+C	E	F=E-D
10.1xx	Land	23,90,15,611.00	40,66,480.00	27,499.00	24,31,09,590.00	31,51,44,579.94	7,20,34,989.94
10.2xx	Building	1,46,67,11,230.09	94,86,26,619.39	2,25,47,885.37	2,43,78,85,734.85	2,56,89,31,625.60	13,10,45,890.75
10.3xx	Hydraulic Works	6,22,91,43,767.13	3,10,63,23,079.92	9,35,39,408.13	9,42,90,06,255.18	10,71,58,28,382.13	1,28,68,22,126.95
10.4xx	Civil Works	1,22,62,46,093.89	32,37,81,446.05	1,73,40,005.00	1,56,73,67,544.94	1,82,51,57,738.39	25,77,90,193.45
10.5xx	Plant & Equipment	3,64,10,87,029.38	1,59,90,13,380.29	7,82,59,928.00	5,31,83,60,337.67	7,77,08,69,735.45	2,45,25,09,397.78
10.6xx	Lines & Cables	4,57,09,304.28	3,56,48,382.15	1,14,76,724.00	9,28,34,410.43	12,69,21,196.30	3,40,86,785.87
10.7xx	Vehicles	46,42,299.00	3,90,639.00	-	50,32,938.00	2,26,71,447.44	1,76,38,509.44
10.8xx	Furniture & Fixtures	7,88,691.00	7,67,756.00	1,15,684.00	16,72,131.00	2,51,59,154.38	2,34,87,023.38
10.9xx	Office Equipment	18,09,368.00	1,84,774.00	33,739.00	20,27,881.00	1,94,58,701.08	1,74,30,820.08
Total		**12,85,51,53,393.77**	**6,01,88,02,556.80**	**22,33,40,872.50**	**19,09,72,96,823.07**	**23,39,01,42,560.71**	**4,29,28,45,737.64**

Depreciation of MLHEP, NUHEP and LAKROH

A/C Code	Particulars	MLHEP w.e.f 2012-13 to 2018-19	NUHEP w.e.f July 2017 to 2018-19	Lakroh w.e.f March 2019	Total	MePGCL Accumulated Depreciation before Ind AS Adjustment	Old Station
		A	B	C	D=A+B+C	E	F=E-D
10.1xx	Land	-	-	-	-	-	-
10.2xx	Building	32,29,21,372.32	5,54,47,225.90	62,758.28	37,84,31,356.50	48,33,26,246.66	10,48,94,890.16
10.3xx	Hydraulic Works	2,27,88,33,411.22	28,70,09,589.31	4,11,573.39	2,56,62,54,573.92	3,76,80,48,686.19	1,20,17,94,112.27
10.4xx	Civil Works	27,73,55,435.43	1,87,16,575.10	48,263.01	29,61,20,273.54	46,47,14,500.45	16,85,94,226.90
10.5xx	Plant & Equipment	1,31,21,34,219.51	14,77,38,441.02	3,44,343.68	1,46,02,17,004.21	2,82,00,71,499.76	1,35,98,54,495.55
10.6xx	Lines & Cables	1,66,74,965.80	32,93,910.51	50,497.59	2,00,19,373.89	4,29,38,961.00	2,29,19,587.11
10.7xx	Vehicles	22,50,346.31	64,943.74	-	23,15,290.05	1,62,12,953.78	1,38,97,663.74
10.8xx	Furniture & Fixtures	3,25,220.24	48,598.95	610.23	3,74,429.43	1,58,44,917.65	1,54,70,488.22
10.9xx	Office Equipment	8,19,974.33	21,825.19	177.97	8,41,977.50	1,13,47,629.95	1,05,05,652.45
Total		**4,21,13,14,945.17**	**51,23,41,109.72**	**9,18,224.16**	**4,72,45,74,279.04**	**7,62,25,05,395.44**	**2,89,79,31,116.39**

Net Fixed Assets of MLHEP, NUHEP and LAKROH

A/C Code	Particulars	MLHEP w.e.f 2012-13 to 2018-19	NUHEP w.e.f July 2017 to 2018-19	Lakroh w.e.f March 2019	Total	MePGCL Net Fixed Assets before Ind AS Adjustment	Old Station
		A	B	C	D=A+B+C	E	F=E-D
10.1xx	Land	23,90,15,611.00	40,66,480.00	27,499.00	24,31,09,590.00	31,51,44,579.94	7,20,34,989.94
10.2xx	Building	1,14,37,89,857.77	89,31,79,393.49	2,24,85,127.09	2,05,94,54,378.35	2,08,56,05,378.94	2,61,51,000.59
10.3xx	Hydraulic Works	3,95,03,10,355.91	2,81,93,13,490.61	9,31,27,834.74	6,86,27,51,681.26	6,94,77,79,695.94	8,50,28,014.68
10.4xx	Civil Works	94,88,90,658.46	30,50,64,870.95	1,72,91,741.99	1,27,12,47,271.40	1,36,04,43,237.94	8,91,95,966.55
10.5xx	Plant & Equipment	2,32,89,52,809.87	1,45,12,74,939.27	7,79,15,584.32	3,85,81,43,333.46	4,95,07,98,235.69	1,09,26,54,902.23
10.6xx	Lines & Cables	2,90,34,338.48	3,23,54,471.64	1,14,26,226.41	7,28,15,036.54	8,39,82,235.30	1,11,67,198.76
10.7xx	Vehicles	23,91,952.69	3,25,695.27	-	27,17,647.96	64,58,493.66	37,40,845.71
10.8xx	Furniture & Fixtures	4,63,470.76	7,19,157.05	1,15,073.77	12,97,701.57	93,14,236.73	80,16,535.16
10.9xx	Office Equipment	9,89,393.67	1,62,948.81	33,561.03	11,85,903.50	81,11,071.13	69,25,167.63
Total		**8,64,38,38,448.60**	**5,50,64,61,447.08**	**22,24,22,648.34**	**14,37,27,22,544.03**	**15,76,76,37,165.27**	**1,39,49,14,621.25**

15,76,91,91,669.41

For VSVG & Co.

Partner

Senior Accounts Officer,
MeECL, Shillong.

Resolved further that the Board of Directors hereby approved the additional financial involvement of around Rs.87/- lakh (Rupees eighty seven lakh) only per month, on account of this 5% enhancement in the rate of Dearness Allowance.

Resolved further that the fraction of '0.76' is to be carried over to the next period for the calculation of Dearness Allowance."

5. APPROVAL FOR REVISION OF PAY, 2020

With due approval of CMD, the Company Secretary explained the agenda before the Board as placed from the Corporate Affairs. It was informed that the Board of Directors, MeECL vide Resolution No.8 dated 16th May, 2019 constituted the MeECL Pay Committee for Revision of Pay Scales and allowances for its employees effective from 01.01.2020 with the following Terms of Reference:-

i. To examine and suggest the required pay structure of different classes of employees of the Corporation w.e.f 1.1.2020 keeping in view the conditions of service, duties and responsibilities assigned to their posts.

ii. To review the existing allowances, amenities and facilities admissible to the employees of the Corporation such as Special Pay, Medical Benefits, Leave Travelling Concession, Compensation, Honorarium, Electricity Allowance, House Rent Allowance, Hill Allowance, Winter Allowance, Travelling Allowance /Risk Allowance, etc. admissible to the employees of the Corporation.

iii. To review the classification and gradation of services for the purpose of Travelling Allowance/Daily Allowance, Medical Allowance and Medical Reimbursement/Hospital Accommodation.

iv. To review the pensionary benefits/retirement benefits.

v. To assess the anomalies, if any of the last pay revision for necessary rectification, etc.

vi. To examine any other connected or incidental matter which may be referred to it by the Corporation.

vii. To make recommendations on the above having regard to the present financial position of MeECL and its subsidiaries as well as directions of the MSERC on the matter, if any.

The Pay Committee submitted its Report on 22.10.2019 to the Chairman-Cum-Managing Director,MeECL.

The salient features of the Report are as under:-

1. The Principle of Pay fixation and Pay determination:

The existing pay structure of the MeECL was made effective from 01.01.2015 as per the recommendations of the Pay Committee constituted by the Board of Directors. As per the terms and conditions of agreement, the next Revision of Pay is due from 01.01.2020. Taking into consideration the historical perspective the State and Central Pay Commissions, the Committee has adopted the Avkrovd formula to determine the family

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consumption needs and to obtain an estimation of such family consumption need the basis of the calculations compiled by the Director of Economics & Statistics Government of Meghalaya whereby the minimum livelihood cost for a single worke including his/her spouse and 2 (two) children below the age of 14 years, estimated as 1PCU + 0.8PCU + 2 x 0.6PCU = 3PCUs as on 31.05.2019 has been made. Accordingly, a Multiplying Factor of 1.61 has been recommended.

2. The Principle of Pay fixation of Allowances: The Committee has projected Dearness Allowance (DA) at 26% as on 01.01.2020 with the existing DA as on 01.07.2019 being 24% i.e. (24% + 2%=26%). On this basis, the Committee has recommended a Factor of 1.26 for all Allowances except Electricity Allowance.

(a) Composite Compensatory Allowance: The Committee has recommended merger of Hill Compensatory Allowance and Winter Allowance which shall be renamed as 'Composite Compensatory Allowance for difficult areas' @ Rs.900/- per month for all employees of the Corporation

(b) Electricity Allowance: The Committee has recommended that the existing methodology of granting Electricity benefit be maintained and date of granting the revised rate based on the revised tariff be made applicable with effect from 01.01.2020.

(c) Abolition of Survey and Investigation Allowance: The Committee recommended discontinuance of Survey and Investigation Allowance since officers and staff posted in survey and investigation circles and divisions are assigned and performing duties which are in the normal course of the job allocation.

3. Financial Benefit: On the basis of the Multiplying Factor of 1.61, the financial benefit is 35%.

4. Weightage increment for completed years of service:

The Committee recommends that, in accordance with the prevailing practice, after the fixation of pay in the proposed scale(s), weightage for the past service may be allowed so that employees with long tenure of service are not deprived of real benefits vis-à-vis their juniors. The Committee, therefore, recommended the following principle for the purpose:

No. of Completed Years of service	No. of Advance Increment (s) admissible as weightage for past service
(i) Corporation employees in the time scale the maximum of which is Rs. 64,500/- p.m. and below:-	
For 10 (ten) completed years and above but below 15 years.	1 (One) Increment
For 15 (fifteen) completed years and above.	2 (Two) Increments
(ii) Corporation employees in the time scale the maximum of which is Rs. 1,12,200/- p.m. and below:-	
For 10 (ten) completed years of service and more but less than 15 years.	1 (One) Increment
For 15 (fifteen) completed years of service and above.	2 (Two) Increments

CHAIRMAN'S INITIALS

Corporation employees in the time scale the maximum of which is Rs. 1,24,000/- p.m. and above:- ✓ 10 (ten) completed years of service but less than 20 years. ✓ 20 (twenty) completed years of service and above.	 1 (One) Increment 2 (Two) Increments

However, considering the proposed revised scales of pay, the Committee is of the inion that the possibility of juniors drawing higher salaries then their seniors will become mote and so recommends to the Management to review the entire matter of granting eightage increments to its employees. In the event that such rare instances should arise, the atter can be addressed on merits as per the already existing procedure of equalization and tified accordingly.

Pension and other retirement benefits: The Committee has recommended that ceiling on DCRG be enhanced from the existing Rs.10,00,000/- (Rupees ten lakh) to Rs.14,00,000/- (Rupees fourteen lakh).

Annual Increment : The Committee has recommended adoption of the Central and State Government pattern of granting increment @ 3% per annum whereby there shall be 2(two) dates for granting annual increment in the Revised Pay Structure, viz. 1st January and 1 July of each Calendar year.

Miscellaneous Recommendations:

Fitment/Re-fitment of the posts of Electricians, Mechanics, Welders, Fitters and Plumbers:

The Committee observed that the anomaly has arisen due to the advertisement floated in February 2004 vide Advertisement No. PER/Recruitment/22/2003/105 dated 20th February 2004 whereby the aforesaid posts were prescribed a lower pay scale vis-a-vis the Engineering Subordinate-III in spite of them being ITI Certificate Holders in their respective trades. However, the Committee also noted that this anomaly was to a certain extent rectified in 2013 vide O.O. No. MeECL/PB/225/2011/Pt-I/88 dated 24.09.2013. Having regard to the Pay Scales prescribed for the Engineering Subordinate-III and the Electricians, Mechanics, Welders & Fitters, the Committee recommends that, the qualifying criteria being the same, it would be fair and justified that there should be parity of Pay Scales of the aforesaid mentioned posts.

(b) Merger of the posts of Junior Assistant and Senior Assistant: The Committee has recommended that the posts of Junior Assistant and Senior Assistant be merged as in the case in the Accounts Wing thereby the post of Junior Assistant will stand abolished and the present incumbents of the post of Junior Assistant be re-designated as Senior Assistants and be allowed to switch over to the Pay Scale of the post of Senior Assistant.

The Committee while recommending parity has proposed to the Management to take able decision as it is a policy matter and other ramifications of parity may be considered.

Financial Implication: The total financial implication per month to implement the Revision of Pay according to the recommendations of the Pay Committee is as under:-

EXISTING:

No	Particulars	Amount(in lakhs)
	Existing Pay as on 31.08.2019	1087.90

CHAIRMAN'S INITIALS

2	Existing DA as on 31.08.2019	261.10
3	Existing OA as on 31.08.2019	207.26
4	Existing Pension as on 31.08.2019	753.19
5	Existing CPS (Employer's contribution) as on 31.08.2019	27.97
6	TOTAL (A)	2337.42

Note: 1. Total Number of Employees - 3180
2. Total Number of Pensioners - 3478

REVISED:

Sl No.	Particulars	Amount(In Lak
1	Revised Pay as on 01.01.2020	1751.52
2	Revised DA as on 01.01.2020	0
3	Revised OA as on 01.01.2020	261.15
4	Revised Pension as on 01.01.2020	921.61
5	Revised CPS (Employer's contribution) as on 01.01.2020	34.23
6	TOTAL (B)	2968.51

Total Financial Implication (B-A) = 631.09 (in Lakhs), the implication does not include the financial burden due to the annual increment @ 3% p.a.

The matter was elaborately discussed and the following issues were mentioned by the Boa of Directors:

i) The Company Secretary informed the Board that the finalization of Revision of Pay, 202 before the effective date i.e 1.1. 2020 will help the Corporations to incorporate th additional cost in the tariff petition for FY 2020-21 and the same will avoid the payme of Arrear on ROP as was happened in earlier ROP.

ii) Sri R. V. Warjri, Director enquired about the possible increase in tariff due to thi enhancement of employees Cost. He also enquired about the past trend of increase in tariff by MSERC in such situations. It was confirmed that there will be around 8% increase in Distribution Tariff in case of full cost of ROP, 2020 pass through the tariff it was also informed that last tariff increase was around 3%. Sri Warjri raised the issue regarding the payment capacity of the Corporation to implement the enhancement of employees and pensioners liability and also advise the management to ensure that the employees shall extend better service inconsonance to the increase of employees benefit.

The Board after discussion passed the following resolutions:

"Resolved that the Board approved Revision of Pay (ROP), 2020 of MeECL to be effective from 1st January, 2020 subject to the following decisions:

1) Under Sl No. *2.4 Weightage increment for completed years of service*, the Board decided to discontinue the same and in case of any anomaly arising where juniors drawing higher salaries then their seniors then such matters shall be placed before the Management to review the entire matter of granting weightage increments to its employees. In the event that such rare instances should arise, the matter can be addressed on merits as per the already existing procedure of equalization and rectified accordingly.

2) Under *Sl No. 2.5 -Fitment / Re-fitment of the posts of i) Electricians, Mechanics, Welders, Fitters, Plumbers and ii) Junior Assistant Corporate Affairs vis-à-vis Junior*

CHAIRMAN'S INITIALS

Divisional Accountants, It was decided that that further review shall be done from the Corporate Affairs, in this regard.

3) Under Sl. No. 7.3 Ex - Gratia Payment, the Board decided for changing the nomenclature 'Ex-gratia' with a suitable name as the benefit is provided for both natural death and unnatural death of employees.

Resolved further that the Chairman-Cum-Managing Director be and is hereby authorised to issue necessary orders, in this regard.

6. CONSIDERATION FOR OPENING OF A DESIGNATED SAVING BANK ACCOUNT FOR EASING PAYMENT OF STATUARY FEE FOR ONLINE FILING OF FORMS WITH THE MINISTRY OF CORPORATE AFFAIRS.

The Company Secretary informed the Board that to comply with the Companies Act, 2013, the undersigned office is doing online filing of different e-forms for MeECL and its three subsidiary companies namely MePGCL, MePDCL and MePTCL with the Registrar of Companies (ROC)/Central Government, from time to time, regarding appointment & Cessation of Director, Creation of Charge, allotment of securities, appointment of Statutory Auditors/Cost Auditors, filing of Annual Accounts, Annual Return, filing of Cost Audit Report, registration of Board Resolutions etc.

The aforesaid online filing of forms with the ROC is possible only with the online banking facility. Hence, in absence of such designated bank account, the funds are deposited by the Accounts Department to the personnel bank account of Sr. Assistant in the office of Company Secretary for making online payment of statutory fee to the ROC.

At present, there is a procedure wherein a request for allotment of funds/special imprest is made to the Accounts Department from the undersigned office based on the tentative fees and subsequently after receiving the funds, the forms are being filed with the ROC. There is a standing direction of the Chairman-cum-Managing Director for allotment of funds to the undersigned office for doing online filing of different e-forms with the ROC.

However, it is experienced that due to longer time involved on receipt of funds from the Accounts department, there is delay in filing of forms which attracts imposition of heavy fine on the Corporation and also it becomes difficult in doing urgent filing of forms like creation of charge etc. for availing sanctioned loans from the financial institutions.

Time to time the office of the Company Secretary has to do urgent e-filing with the Registrar of Companies by making payment from own personal accounts in order to avoid penalty or non-compliance due to delay in receipt of funds from the Accounts Department.

Further, this is to mention that there is always a delay in getting the reimbursements of the amount spend for doing the above urgent e-filings from the Accounts Department.

To remove the aforesaid difficulties, opening of a designed bank account of the Corporation for ROC e-filing may be considered which will help the Corporations in following matters:

i) To avoid longer time involved in making requisition to the Accounts Department for allotment of funds and receipt of funds thereof.

ii) Ease in doing immediate e-filing of urgent forms with the Registrar of Companies/Central Government in certain cases like creation of charge etc.

iii) Better transparency and prompt verification

CHAIR
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ANNEXURE-4

Name of the Hydro Generating Station: Umiam Stage-I Power Station

Format-HG1

DETAILS OF COD, TYPE OF HYDRO STATIONS, NORMATIVE ANNUAL PLANT, AVAILABILITY FACTOR (NAPAF) & OTHER NORMATIVE PARAMETERS CONSIDERED FOR TARIFF CALCULATION

SL NO	DESCRIPTION	UNIT	2018-19 (ACTUAL)	2019-20 (PROJECTED)	2020-21 (PROJECTED)	2021-22 (PROJECTED)	2022-23 (PROJECTED)	2023-24 (PROJECTED)
1	Installed Capacity	MW	36	36	36	36	36	36
2	Free Power to Home State	%	N.A	N.A	N.A	N.A	N.A	N.A
3	Date of Commercial Operation							
	Unit – I	-	1965	1965	1965	1965	1965	1965
	Unit - II		1965	1965	1965	1965	1965	1965
	Unit - III		1965	1965	1965	1965	1965	1965
	Unit - IV		1965	1965	1965	1965	1965	1965
4	Type of Station	-	-	-	-	-	-	-
	Surface/Underground	-	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE
	Purely ROR/Pondage/Storage	-	STORAGE	STORAGE	STORAGE	STORAGE	STORAGE	STORAGE
	Peaking/Non Peaking	-	NON PEAKING	NON PEAKING	NON PEAKING	NON PEAKING	NON PEAKING	NON PEAKING
	No. of hours Peaking	-	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
	Overload Capacity (MW) & period	-	NIL	NIL	NIL	NIL	NIL	NIL
5	Type of Excitation	-	-	-	-	-	-	-
	Rotating exciters on Generator	-	Rotating exciters on Generator	Rotating exciters on Generator	Rotating exciters on Generator	Rotating exciters on Generator	Rotating exciters on Generator	Rotating exciters on Generator
	Static excitation	-	N.A	N.A	N.A	N.A	N.A	N.A
6	Design Energy (Annual)	Gwh	116.00	116.00	116.00	116.00	116.00	116.00
7	Auxiliary consumption including Transformation losses	%	1.2	1.2	1.2	1.2	1.2	1.2
8	Normative Plant Availability Factor (NAPAF)	%	59.83	59.83	59.83	59.83	59.83	59.83
9.1	Maintenance spares for WC	Rs. Lakh						
12	Receivable for WC	Rs. Lakh						
13	Base rate on return on equity	%						
14	Tax rate +2	%						
15	Prime lending rate of SBI as on 01.04.13	%						

Name of the Hydro Generating Station: Umiam Stage-II Power Station

Format-HG1

DETAILS OF COD, TYPE OF HYDRO STATIONS, NORMATIVE ANNUAL PLANT, AVAILABILITY FACTOR (NAPAF) & OTHER NORMATIVE PARAMETERS CONSIDERED FOR TARIFF CALCULATION

SL NO	DESCRIPTION	UNIT	2018-19 (ACTUAL)	2019-20 (PROJECTED)	2020-21 (PROJECTED)	2021-22 (PROJECTED)	2022-23 (PROJECTED)	2023-24 (PROJECTED)
1	Installed Capacity	MW	20	20	20	20	20	20
2	Free Power to Home State	%	NIL	NIL	NIL	NIL	NIL	NIL
3	Date of Commercial Operation	-	-	-	-	-	-	-
	Unit – I	-	1970	1970	1970	1970	1970	1970
	Unit – II	-	1970	1970	1970	1970	1970	1970
4	Type of Station	-	-	-	-	-	-	-
	Surface/Underground	-	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE
	Purely ROR/Pondage/Storage	-	Pondage	Pondage	Pondage	Pondage	Pondage	Pondage
	Peaking/Non Peaking	-	NON PEAKING	NON PEAKING	NON PEAKING	NON PEAKING	NON PEAKING	NON PEAKING
	No. of hours Peaking	-	-	-	-	-	-	-
	Overload Capacity (MW) & period	-	NIL	NIL	NIL	NIL	NIL	NIL
5	Type of Excitation	-	-	-	-	-	-	-
	Rotating exciters on Generator	-	ROTATING EXCITERS ON GENERATOR	ROTATING EXCITERS ON GENERATOR	ROTATING EXCITERS ON GENERATOR	ROTATING EXCITERS ON GENERATOR	ROTATING EXCITERS ON GENERATOR	ROTATING EXCITERS ON GENERATOR
	Static excitation	-	NA	NA	NA	NA	NA	NA
6	Design Energy (Annual)	Gwh	46.00	46.00	46.00	46.00	46.00	46.00
7	Auxiliary consumption including Transformation losses	%	1.20	1.20	1.20	1.20	1.20	1.20
8	Normative Plant Availability Factor (NAPAF)	%	85.00	85.00	85.00	85.00	85.00	85.00
9.1	Maintenance spares for WC	Rs. Lakh						
9.2	Receivable for WC	Rs. Lakh						
9.3	Base rate on return on equity	%						
9.4	Tax rate +2	%						
9.5	Prime lending rate of SBI as on 01.04.2013	%						

Name of the Hydro Generating Station: Umiam Stage-III Power Station

Format-HG1

DETAILS OF COD, TYPE OF HYDRO STATIONS, NORMATIVE ANNUAL PLANT, AVAILABILITY FACTOR (NAPAF) & OTHER NORMATIVE PARAMETERS CONSIDERED FOR TARIFF CALCULATION

SL NO	DESCRIPTION	UNIT	2018-19 (ACTUAL)	2019-20 (PROJECTED)	2020-21 (PROJECTED)	2021-22 (PROJECTED)	2022-23 (PROJECTED)	2023-24 (PROJECTED)
1	Installed Capacity	MW	60	60	60	60	60	60
2	Free Power to Home State	%	NIL	NIL	NIL	NIL	NIL	NIL
3	Date of Commercial Operation	-						
	Unit – I	-	1979	1979	1979	1979	1979	1979
	Unit – II	-	1979	1979	1979	1979	1979	1979
4	Type of Station	-	-	-	-	-	-	-
	Surface/Underground	-	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE
	Purely ROR/Pondage/Storage	-	PONDAGE	PONDAGE	PONDAGE	PONDAGE	PONDAGE	PONDAGE
	Peaking/Non Peaking	-	NON PEAKING	NON PEAKING	NON PEAKING	NON PEAKING	NON PEAKING	NON PEAKING
	No. of hours Peaking	-	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
	Overload Capacity (MW) & period	-	NIL	NIL	NIL	NIL	NIL	NIL
5	Type of Excitation	-	-	-	-	-	-	-
	Rotating exciters on Generator	-	Rotating exciters on Generator	Rotating exciters on Generator	Rotating exciters on Generator	Rotating exciters on Generator	Rotating exciters on Generator	Rotating exciters on Generator
	Static excitation	-	NA	NA	NA	NA	NA	NA
6	Design Energy (Annual)	Gwh	139.00	139.00	139.00	139.00	139.00	139.00
7	Auxiliary consumption including Transformation losses	%	1.20	1.20	1.20	1.20	1.20	1.20
8	Normative Plant Availability Factor (NAPAF)	%	63.67	63.67	63.67	63.67	63.67	63.67
9.1	Maintenance spares for WC	Rs. Lakh						
9.2	Receivable for WC	Rs. Lakh						
9.3	Base rate on return on equity	%						
9.4	Tax rate+2	%						
9.5	Prime lending rate of SBI as on 01.04.2013	%						

Name of the Hydro Generating Station: Umiam Stage-IV Power Station

Format-HG1

DETAILS OF COD, TYPE OF HYDRO STATIONS, NORMATIVE ANNUAL PLANT, AVAILABILITY FACTOR (NAPAF) & OTHER NORMATIVE PARAMETERS CONSIDERED FOR TARIFF CALCULATION

SL NO	DESCRIPTION	UNIT	2018-19 (ACTUAL)	2019-20 (PROJECTED)	2020-21 (PROJECTED)	2021-22 (PROJECTED)	2022-23 (PROJECTED)	2023-24 (PROJECTED)
1	Installed Capacity	MW	60	60	60	60	60	60
2	Free Power to Home State	%	NIL	NIL	NIL	NIL	NIL	NIL
3	Date of Commercial Operation	-	-	-	-	-	-	-
	Unit – I	-	1992	1992	1992	1992	1992	1992
	Unit – II	-	1992	1992	1992	1992	1992	1992
4	Type of Station	-	-	-	-	-	-	-
	Surface/Underground	-	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE
	Purely ROR/Pondage/Storage	-	PONDAGE	PONDAGE	PONDAGE	PONDAGE	PONDAGE	PONDAGE
	Peaking/Non Peaking	-	NON PEAKING	NON PEAKING	NON PEAKING	NON PEAKING	NON PEAKING	NON PEAKING
	No. of hours Peaking	-	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
	Overload Capacity (MW) & period	-	NIL	NIL	NIL	NIL	NIL	NIL
5	Type of Excitation	-	-	-	-	-	-	-
	Rotating exciters on Generator	-	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
	Static excitation	-	STATIC EXCITATION	STATIC EXCITATION	STATIC EXCITATION	STATIC EXCITATION	STATIC EXCITATION	STATIC EXCITATION
6	Design Energy (Annual)	Gwh	207.00	207.00	207.00	207.00	207.00	207.00
7	Auxiliary consumption including Transformation losses	%	1.50	1.50	1.50	1.50	1.50	1.50
8	Normative Plant Availability Factor (NAPAF)	%	61.79	61.79	61.79	61.79	61.79	61.79
9.1	Maintenance spares for WC	Rs. Lakh						
9.2	Receivable for WC	Rs. Lakh						
9.3	Base rate on return on equity	%						
9.4	Tax rate+2	%						
9.5	Prime lending rate of SBI as on 01.04.2012	%						

Format-HG1

Name of the Hydro Generating Station: Sonapani Mini Hydel Project

DETAILS OF COD, TYPE OF HYDRO STATIONS, NORMATIVE ANNUAL PLANT, AVAILABILITY FACTOR (NAPAF) & OTHER NORMATIVE PARAMETERS CONSIDERED FOR TARIFF CALCULATION

SL NO	DESCRIPTION	UNIT	2018-19 (ACTUAL)	2019-20 (PROJECTED)	2020-21 (PROJECTED)	2021-22 (PROJECTED)	2022-23 (PROJECTED)	2023-24 (PROJECTED)
1	Installed Capacity	MW	1.50	1.50	1.50	1.50	1.50	1.50
2	Free Power to Home State	%	NIL	NIL	NIL	NIL	NIL	NIL
3	Date of Commercial Operation	-	-	-	-	-	-	-
	Unit – I	-	2009	2009	2009	2009	2009	2009
4	Type of Station	-	-	-	-	-	-	-
	Surface/Underground	-	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE
	Purely ROR/Pondage/Storage	-	ROR	ROR	ROR	ROR	ROR	ROR
	Peaking/Non Peaking	-	NON PEAKING	NON PEAKING	NON PEAKING	NON PEAKING	NON PEAKING	NON PEAKING
	No. of hours Peaking	-	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
	Overload Capacity (MW) & period	-	N.A	N.A	N.A	N.A	N.A	N.A
5	Type of Excitation	-	-	-	-	-	-	-
	Rotating exciters on Generator	-	ROTATING EXCITERS ON GENERATOR	ROTATING EXCITERS ON GENERATOR	ROTATING EXCITERS ON GENERATOR	ROTATING EXCITERS ON GENERATOR	ROTATING EXCITERS ON GENERATOR	ROTATING EXCITERS ON GENERATOR
	Static excitation	-	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
6	Design Energy (Annual)	Gwh	5.00	5.00	5.00	5.00	5.00	5.00
7	Auxiliary consumption including Transformation losses	%	1.20	1.20	1.20	1.20	1.20	1.20
8	Normative Plant Availability Factor (NAPAF)	%	45.00	45.00	45.00	45.00	45.00	45.00
9.1	Maintenance spares for WC	Rs. Lakh						
9.2	Receivable for WC	Rs. Lakh						
9.3	Base rate on return on equity	%						
9.4	Tax rate	%						
9.5	Prime lending rate of SBI as on 01.04.2012	%						

SALIENT FEATURES OF HYDROELECTRIC PROJECT

Name of the Hydro Generating Station: Umiam Stage-I

1. Location	
State /Distt.	Meghalaya State/Ri-Bhoi District
River	Umiam River
2. Diversion Tunnel	
Size, Shape	N.A
Length	
3. Dam	
Type	Concrete Gravity
Maximum dam height	73 m
4. Spillway	
Type	Ogee – gated control/Crest control
Crest level of Spillway	969.26 m
5. Reservoir	
Full Reservoir Level (FRL)	981.46 m
Minimum Draw Down Level(MDDL)	960.12 m
Live Storage (MCM)	142.35 Mm3
6. De-silting Arrangement	
Type Number and Size Particle size to be removed (mm)	N.A
7. Head Race Tunnel	
Size and Type	3.05 m Dia, Horse Shoe
Length	2058 m
Design Discharge (Cumecs)	28.12 Cumecs
8. Surge Shaft	
Type	Circular
Diameter	4.90 m
Height	48.3 m
9. Penstock/ Pressure Shafts	
Type	Steel Liner
Diameter & Length	2 Nos of 1.98 m dia. each & 618.70 m (Combined length) each.
10. Power House	
Type	Surface
Installed Capacity (No of Units x MW)	4 x 9 MW
Peaking Capacity during lean period (MW)	N.A
Type of Turbine	Vertical Francis
Rated Head (M)	145 m
Rated Discharge (Cumecs)	8.27 Cumecs
11. Tail Race	
Diameter, Shape	Open Channel
Length	366 m
Minimum tail water level	809.40 m
12. Switch yard	
Type of Switch gear	Outdoor
No. Of generator bays	4
No. Of Bus Coupler bays	1
No. Of line Bays	7

SALIENT FEATURES OF HYDROELECTRIC PROJECT

Name of the Hydro Generating Station: Umiam Stage-IV

a. Location	
State /Distt.	Meghalaya/Ri-Bhoi District
River	Umtru River with Umiam Diversion
b. Diversion Tunnel	
Size, Shape	N.A
Length	
c. Dam	
Type	Concrete Gravity
Maximum dam height	43.00 M
d. Spillway	
Type	Ogee- gated Control
Crest level of Spillway	491M
e. Reservoir	
Full Reservoir Level (FRL)	503.00 M
Minimum Draw Down Level(MDDL)	496.00 M
Live Storage (MCM)	0.80 Mm3
f. De-silting Arrangement	
Type	N.A
Number and Size	
Particle size to be removed (mm)	
g. Head Race Tunnel	
Size and Type	3.96 m Dia. and Circular
Length	6128.38 M
Design Discharge (Cumecs)	51 Cumecs
h. Surge Shaft	
Type	Orifice Type
Diameter	10.00 M
Height	73.06 M
i. Penstock/ Pressure Shafts	
Type	Steel Liner
Diameter & Length	2.59 M, 2 Nos of 540.67 m & 546.01 m (combined length)
10. Power House	
Type	Surface
Installed Capacity (No of Units x MW)	(2X30) MW
Peaking Capacity during lean period (MW)	N.A
Type of Turbine	Vertical Francis
Rated Head (M)	140.00 M
Rated Discharge (Cumecs)	25.04 Cumecs
11. Tail Race	
Diameter, Shape	Channel, Trapezoidal
Length	50 m
Minimum tail water level	338.9 m
12. Switch yard	
Type of Switch gear	Outdoor (SF-6)
No. Of generator bays	2
No. Of Bus Coupler bays	1
No. Of line Bays	4

SALIENT FEATURES OF HYDROELECTRIC PROJECT

Name of the Hydro Generating Station: Sonapani

Format-HG2

1. Location		
State /Distt.	Meghalaya/East Khasi Hills District	
River	Umshyrpi &Wahumkhrah	
2. Diversion Tunnel	N.A	
Size, Shape		
Length		
3. Dam/Weir		
Type	**Wahumkhrah**	**Umshyrpi**
Maximum dam height	RCC Counterfort	Composite (Masonry &RCC)
4. Spillway	3.50 m	4.45 m
Type	**Wahumkhrah**	**Umshyrpi**
Crest level of Spillway	Free overfall Spillway	Free overfall Spillway
5. Reservoir	1399.095 m	1413.55 m
Full Reservoir Level (FRL)	Forebay, Sise – 41 m x 9 m x 3.35 m	
Minimum Draw Down Level(MDDL)	1396.295 m	
Live Storage	1395.045 m	
6. De-silting Arrangement	395 cum	
Type	**Wahumkhrah**	**Umshyrpi**
Number and Size	RCC Desilting chamber	RCC Desilting chamber
Particle size to be removed (mm)	1 No., 11.00 m x 2.20 m x 1.75 m	1 No., 11.00 m x 2.20 m x 1.75 m
7. Head Race Tunnel	0.25 mm and above	0.25 mm and above
Size and Type	**Wahumkhrah**	**Umshyrpi**
Length	1.00m x 1.00 m, Open Channel	1.00m x 1.00 m, Open Channel
Design Discharge (Cumecs)	632.0 m	1128.50 m
8. Surge Shaft	0.54 cumecs	0.44 cumecs
Type	N.A	
Diameter		
Height		
9. Penstock/ Pressure Shafts		
Type	Steel Pipe	
Diameter & Length	0.70m Dia ,370.00m(Length)	
10. Power House		
Type	Surface	
Installed Capacity (No of Units x MW)	1x1.5MW	
Peaking Capacity during lean period (MW)	N.A	
Type of Turbine	Horizontal Pelton Wheel	
Rated Head (M)	172.42m	
Rated Discharge (Cumecs)	0.98 Cumecs	
11. Tail Race		
Size, Shape	1.50m x 1.50m, Rectangular	
Length	20.00m	
Minimum tail water level	1216.50 m	
12. Switch yard		
Type of Switch gear	Out door	
No. Of generator bays	1	
No. Of Bus Coupler bays	2	
No. Of line Bays	3	