

BEFORE
MEGHALAYA STATE ELECTRICITY REGULATORY
COMMISSION, SHILLONG

PETITION

FOR

**ANNUAL REVENUE REQUIREMENT & GENERATION
TARIFF FOR FY 2013-14**

FILED BY
**MEGHALAYA POWER GENERATION
CORPORATION LTD.**

Lum Jingshai, Short Round Road, Shillong - 793 001

BEFORE THE HON'BLE MEGHALAYA STATE ELECTRICITY REGULATORY COMMISSION

FILE / PETITION NO.....

IN THE MATTER OF

APPROVAL OF ANNUAL REVENUE REQUIREMENT AND TARIFF OF THE MEGHALAYA POWER GENERATION CORPORATION LIMITED (MePGCL) WITHIN THE STATE OF MEGHALAYA FOR THE FINANCIAL YEAR 2013-14 UNDER MEGHALAYA STATE ELECTRICITY REGULATORY COMMISSION (TERMS AND CONDITIONS FOR DETERMINATION OF TARIFF) REGULATIONS 2011 AND UNDER SECTION-62 READ WITH SECTION 86 OF THE ELECTRICITY ACT 2003

AND IN THE MATTER OF

MEGHALAYA POWER GENERATION CORPORATION LIMITED; LUMJINGSHAI, SHILLONG – 793001, MEGHALAYA

PETITIONER

IT IS RESPECTFULLY SUBMITTED BY THE PETITIONER THAT:

1. The Power Supply Industry in Meghalaya had been under the control of the erstwhile Meghalaya State Electricity Board (MeSEB) with effect from 21st January 1975. On 31st March 2010, the Government of Meghalaya issued a Notification “The Meghalaya Power Sector Reforms Transfer Scheme 2010” (enclosed as **ANNEXURE-I**) thereby giving effect to the transfer of assets, properties, rights, liabilities, obligations, proceedings and personnel of the erstwhile MeSEB to, namely, (i) Meghalaya Energy Corporation Limited (MeECL), the Holding Company; (ii) Meghalaya Power Distribution Corporation Limited (MePDCL), the Distribution Utility; (iii) Meghalaya Power Generation Corporation Limited (MePGCL), the Generation Utility; & (iv) Meghalaya Power Transmission Corporation Limited (MePTCL), the Transmission Utility. However, the Government of Meghalaya, vide Notification dated 19th May 2011, authorized that the transfer scheme of the MeECL be extended for another period of 1 (one) year with effect from 1st April 2011. On 31st March 2012, Government of Meghalaya issued further amendment to the above mentioned transfer scheme, to transfer Assets and Liabilities including all rights, obligations and contingencies with effect from 1st April 2012 (enclosed as **ANNEXURE-II**).

2. Presently, the Meghalaya Energy Corporation Limited (MeECL) is functioning as a Holding Company and the other utilities, namely, Meghalaya Power Distribution Corporation Limited (MePDCL); the Meghalaya Power Generation Corporation Limited (MePGCL) and the Meghalaya Power Transmission Corporation Limited (MePTCL) have not yet commenced commercial operation as independent entities till date. Based on the provisional segregated financials and transfer scheme, estimates for the FY 2012-13 and projections for FY 2013-14 are prepared.
3. The latest tariff order of MeECL for FY 2012-13 was passed by Hon'ble Commission on 20th January 2012.
4. The Annual Revenue Requirement (ARR) for FY 2013-14 is projected at Rs. **301.11** Crores.
5. The Resolution of the Board of Directors, MePGCL approving the proposed ARR and authorizing the undersigned to file this Tariff Petition is enclosed as **ANNEXURE- III**.
6. The applicant, therefore, humbly prays to the Hon'ble Commission to pass appropriate orders on the following:
 - a. Accept the ARR Petition filed by MePGCL for FY 2013-14;
 - b. Approval of ARR amounting to Rs **301.11** Crores proposed in this Petition.
 - c. To pass such orders, as Hon'ble Commission may deem fit and proper and necessary in view of the facts and circumstances of the case.
 - d. To condone any inadvertent omissions, errors & shortcomings and permit the applicant to add/change/modify/alter this filing and make further submissions as required.

Amberlight Lyngdoh
Superintending Engineer, (Project & Monitoring)
For and on behalf of
Meghalaya Power Generation Corporation Ltd

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1 Background

1.1 Introduction

1.1.1 The Power Supply Industry in Meghalaya had been under the control of the erstwhile Meghalaya State Electricity Board (MeSEB) with effect from 21st January 1975. The Government of Meghalaya (GoM or State Government) unbundled and restructured the Meghalaya State Electricity Board with effect from 31st March 2010. The Generation, Transmission and Distribution businesses of the erstwhile Meghalaya State Electricity Board were transferred to four successor companies. The State Government issued a Notification “The Meghalaya Power Sector Reforms Transfer Scheme 2010” thereby giving effect to the transfer of assets, properties, rights, liabilities, obligations, proceedings and personnel of the erstwhile MeSEB. On 31st March 2012, Government of Meghalaya issued further amendment to the above mentioned transfer scheme, to transfer Assets and Liabilities including all rights, obligations and contingencies with effect from 1st April 2012 to namely :

- Generation: Meghalaya Power Generation Corporation Ltd. (MePGCL)
- Transmission: Meghalaya Power Transmission Corporation Ltd. (MePTCL)
- Distribution: Meghalaya Power Distribution Corporation Ltd. (MePDCL)
- Meghalaya Energy Corporation Limited (MeECL), a holding company

1.1.2 As per the said notification issued by Government of Meghalaya a separate company “Meghalaya Power Generation Corporation Ltd” (MePGCL) for undertaking generation business was incorporated.

1.1.3 The Meghalaya State Electricity Regulatory Commission (hereinafter referred to as “MSERC” or “the Hon’ble Commission”) is an independent statutory body constituted under the provisions of the Electricity Regulatory Commissions (ERC) Act, 1998, which was superseded by Electricity Act (EA), 2003. The Hon’ble Commission is vested with the authority of regulating the power sector in the State inter alia including determination of Generation tariff.

1.2 Provisions of Law

1.2.1 Hon’ble Commission has notified the Meghalaya State Electricity Regulatory Commission (Terms and Conditions for determination of Tariff) Regulations, 2011 on 10th February 2011.

1.2.2 The Meghalaya State Electricity Regulatory Commission (Terms and Conditions for determination of Tariff) Regulations, 2011 (hereinafter termed as 'Tariff Regulations, 2011'), issued by the Hon'ble Commission provides for determination of tariff. Accordingly, the key provisions of the said Regulations are reproduced below for reference.

3 (3) The Commission shall subject to the provisions of sub-regulation 3(4), determine the tariff in accordance with the provisions of the Act, and these regulations, for –

(a) Supply of electricity by a generating company to a distribution licensee:

(b) Transmission of electricity;

(c) Wheeling of electricity;

(d) Retail sale of electricity;.....

4 .Charging of permissible Tariff

(1) Subject to the provisions of sub-regulations 3(3) and 3(4), no generating company or licensee shall, without prior approval of the Commission, charge any tariff;

Provided that the existing tariff being charged by the generating company or the licensee shall continue to be charged even after the date of commencement of these regulations, till such time the tariff is revised by the Commission.

17. Filing of Tariff Petition

(1) Each generating company and the licensee shall file Tariff Petition on or before 30th November each year with the Commission which shall include statements containing calculation of the expected aggregate revenue from charges under it, currently approved tariff and the expected cost of providing services i.e., Aggregate Revenue Requirement (ARR) during the previous year, current year and ensuring year. The information for the previous year should be based on audited accounts and in case audited accounts are not available, audited accounts for the year immediately preceding the previous year should be filed along with un-audited accounts for the previous year.

The tariff application shall also contain tariff proposals so as to fully cover the gap if any, between the expected aggregate revenue at the prevalent tariff and the expected cost of services including schemes for reduction loss levels and other efficiency gains to be achieved.

1.2.3 Section 61 & Section 62(a) of Electricity Act 2003 empowers the Hon'ble Commission to determine tariff for supply of electricity by generating company to a distribution licensee. MePGCL is presently submitting this petition according to the aforementioned provisions of the Tariff Regulations, 2011 for determination of ARR for FY 2013-14.

1.3 Submissions to the Hon'ble Commission

1.3.1 MePGCL hereby submits the petition under section 62 of the Electricity Act, 2003 and Tariff Regulations, 2011 as amended from time to time for approval of ARR and Tariff for FY 2013-14.

2 Overall approach for present filing

2.1 Approach for ARR of FY 2013-14

- 2.1.1 In accordance with the provisions of the Tariff Regulations 2011, MePGCL hereby submits the ARR for FY 2013-14 based on provisional & segregated financials for the FY 2011-12/ FY 2012-13 and transfer scheme.
- 2.1.2 The Tariff Regulations, 2011 provide for Norms of Operation and also provides methodology for determination of tariff for existing and new generating station. The relevant regulations are extracted for reference as under:

11. Norms of Operation

(1) The norms of operation specified in these regulations shall be the norms to be made applicable and these shall not preclude the generating company or the licensee, as the case may be, and the beneficiaries from agreeing to improved norms of operation and in case the improved norms agreed to, such improved norms shall be applicable for the determination of tariff.

(2) The Commission may decide to defer the normative parameters or extend the deadline of the implementation of the given normative parameters on a case to case basis for existing plants due to mix of vintage, size, technology, fuel grades, site specific conditions etc that might have a bearing on the efficiency of the unit. The Commission shall review the past operations in detail while providing any relaxation.

(3) In respect of the generating companies covered under power purchase agreements, the norms in the power purchase agreement will be applicable till the expiry of the contract.

48. Tariff Determination

(1) Existing Generating Station

Where the Commission has, at any time prior to the notification of these regulations, approved a Power Purchase Agreement (PPA) or arrangement between a generating company and a beneficiary, or has adopted the tariff contained therein for supply of electricity from an existing generating station then the tariff for supply of electricity by the generating company to the distribution licensee shall be in accordance with such PPA or arrangement for such period as may be so approved or adopted by the Commission, to the extent of existing installed capacity as contained in the PPA.

(2) New Generating Station

Where the generating station has been declared under commercial operation from a date after the issue of these regulations the tariff for supply of electricity by the generating company shall be decided in accordance with these regulations.

2.1.3 MePGCL submits that though the notified date of independent functioning is from 1st April 2012, it has not yet finalized the commercial agreement with MePDCL and MePTCL. MePGCL submits that, Power Purchase Agreements (PPAs) for supply of power to MePDCL is being finalised and such power under PPAs will be supplied on cost plus basis. Therefore, MePGCL submits that the tariff for hydro generating stations may be determined on cost plus basis.

2.1.4 The Tariff Regulations, 2011 seek details of each hydro generating station and accordingly station wise tariffs are to be computed. It is submitted that post transfer scheme, the segregated closing balances available as on 31st March 2012 for generation provide for Gross Block details (Gross Fixed Assets) only i.e. individual project cost details are unavailable. In absence of the same, it is submitted that the tariff for new projects commissioned after FY 2008-09 for which details are available may be determined based on available individual project costs. Further in case of all other projects, (hereinafter termed as 'Old Projects') Gross Fixed Assets (GFA) value is arrived at after deducting total cost of new projects from total fixed assets as per provisional and segregated financials as on 31.03.2012. MEPGCL submits that such an approach would also be ideal considering that most of the projects have completed useful life of asset or nearing completion of the same and would assist in determining station wise tariffs. The table below provides segregation of New and Old Projects along with its installed capacity:

Table 1: Classification of Hydro Projects as per Useful Life

No.	Name of Station	No. of Units	Capacity (MW)	Total Capacity (MW)	COD	Balance Useful Life (in years)	Project Classification
1.	Umiam Stage I	I	9	36	21.02.1965	Nil	Old
		II	9		16.03.1965	Nil	Old
		III	9		06.09.1965	Nil	Old
		IV	9		09.11.1965	Nil	Old
2.	Umiam Stage II	I	10	20	22.07.1970	Nil	Old
		II	10		24.07.1970	Nil	Old
3.	Umiam Stage III	I	30	60	6.01.1975	~ 2 yrs	Old

No.	Name of Station	No. of Units	Capacity (MW)	Total Capacity (MW)	COD	Balance Useful Life (in years)	Project Classification
		II	30		30.03.1979	~ 2 yrs	Old
4.	Umiam Stage IV	I	30	60	16.09.1992	~15 yrs	Old
		II	30		11.08.1992	~15 yrs	
5.	Umtru Power Station	I	2.8	11.2	01.04.1957	Nil	Old
		II	2.8		01.04.1957	Nil	Old
		III	2.8		01.04.1957	Nil	Old
		IV	2.8		12.07.1968	Nil	Old
6.	Micro Hydel (Sonapani)	I	1.5	1.5	27.10.2009	~32 yrs	Separate tariff
	Total			186.7			

2.1.5 **Determination of Provisional Tariffs for New Generating Stations:** MePGCL submits that Tariff Regulations provide for filing Provisional Tariff for new generating station in advance of the anticipated date of commissioning. The relevant regulations are extracted for reference as under:

47. Tariff Filing

(1) *The generating company shall file the petition for Annual revenue Requirement (ARR) and determination of tariff for supply of electricity to distribution licensees in the manner specified in Chapter-2 of these regulations.*

(2) (a) *In case of a new generating station, a generating company shall file petition for determination of provisional tariff in advance of the anticipated date of commissioning of a generating station based on the capital expenditure actually incurred up to the date of making the petition or a date prior to making of the petition, duly audited and certified by the statutory auditors and the provisional tariff shall be charged from the date of commercial operation of the generating station.*

(b) *A generating company shall file a fresh petition as per these regulations, for determination of final tariff of a generating station mentioned in clause (2) above based on actual capital expenditure incurred up to the date of commercial operation of the generating station duly certified by the statutory auditors based on annual audited accounts.*

(3) *Any difference between the provisional tariff and the final tariff determined by the Commission and not attributable to the generating company may be adjusted in the tariff for the following year as directed by the Commission*

2.1.6 The details of new generating stations which are proposed for determination of Provisional tariffs are as under:

Table 2: New Generating Stations for Provisional Tariff Determination

No.	Name & Location	Capacity (MW)	Year of Commencement	Schedule Date of Commissioning/COD
1	Leshka HEP	42 x 3 units = 126	2004	Unit I – 1.4.2012 Unit II – 1.4.2012 Unit III – Dec 2012
2	Lakroh SHP	1.5	2003	Jan 2013

Accordingly, MePGCL submits before Hon'ble Commission to determine the Provisional Tariff for the above new Hydro Generating Station for FY 2013-14. It is submitted that though Unit 1 and Unit 2 of Leshka HEP have achieved CoD on 1.04.2012, project cost available is provisional and not the audited. In view of the same it is submitted that Tariff for these units along with 3rd Unit be determined on provisional basis.

2.1.7 In summary, MePGCL has proposed for computation of tariffs for:

- Existing Generating Stations
 - Old Projects
 - Micro Hydel-Sonapani
- New Generating Stations (provisional capital cost and tariff determination)
 - Leshka HEP
 - Lakroh HEP

3 ARR for FY 2013-14 – Existing Generating Stations

Based on the approach discussed above, MePGCL is hereby proposing for determination of tariffs for generating stations.

3.1 Segregation of Financials

3.1.1 The segregation of annual accounts for restructured entities is yet to be finalized and provisional figure of Opening Balance of Gross Fixed Assets is available. The closing balance of GFA of MePGCL as on 31st March, 2012 is Rs **314.82** Crores.

3.1.2 Based on notification of Government of Meghalaya, Annual Accounts of MeECL have to be restructured and segregated to give effect to the said notified Transfer Scheme. Pursuant to Meghalaya Power Sector Reforms Transfer Scheme 2010 (as amended in 2012), the Assets and Liabilities including rights, obligations and contingencies is transferred to and vested in MePGCL from MeECL on and from 01/04/2012. Transfer of Assets and Liabilities to MePGCL is based on the provisional financials of MeECL.

3.2 Existing Generation Capacity

3.2.1 The initial installed capacity when the erstwhile Meghalaya State Electricity Board (MeSEB) was bifurcated from the Assam State Electricity Board (ASEB) in 1975 was 65.2 MW. With the commissioning of Stage-III HEP (1979), Stage IV HEP (1992) & Micro Hydrel, the installed capacity increased by 121.5 MW. All the Generating Stations except Sonapani Micro Hydrel Project, as indicated in **Table 3** below are hydrel power stations with the main reservoir at Umiam for all the stages. Therefore, all these stages depend mainly on water availability at the Umiam reservoir. The total installed capacity of MePGCL projects are as under:

Table 3: Details of Existing Generation Capacity

No.	Name of Station	No. of Units	Capacity (MW)	Total Capacity (MW)	Year of Commissioning
1.	Umiam Stage I	I	9	36	21.02.1965
		II	9		16.03.1965
		III	9		06.09.1965
		IV	9		09.11.1965
2.	Umiam Stage II	I	10	20	22.07.1970
		II	10		24.07.1970

3.	Umiam Stage III	I	30	60	6.01.1975
		II	30		30.03.1979
4.	Umiam Stage IV	I	30	60	16.09.1992
		II	30		11.08.1992
5.	Umtru Power Station	I	2.8	11.2	01.04.1957
		II	2.8		01.04.1957
		III	2.8		01.04.1957
		IV	2.8		12.07.1968
6.	Micro Hydel (Sonapani)	I	1.5	1.5	27.10.2009
Total				186.7	

3.3 New Generation Capacity

3.3.1 MePGCL is currently executing works of hydro electric projects which are proposed for commissioning in near future or commissioned recently as under:

Table 4: Details of New Generating Stations

No.	Name & Location	Capacity (MW)	Year of Commencement	Schedule Date of Commissioning / COD
1	Leshka HEP	42 x 3 = 126	2004	Unit I – 1.4.2012 Unit II – 1.4.2012 Unit III – Dec 2012
2	Lakroh SHP	1.5	2003	Jan 2013

3.3.2 The computation of energy, provisional capital cost and other costs for the new projects as indicated in **Table 4** are discussed in subsequent sections.

3.4 Computation of Generation Energy

The following sections outline details of operational norms for computation of energy generation for FY 2013-14 based on Tariff Regulations, 2011 or past trend as the case may be.

3.4.1 Operation Norms

The following sections provide the extract of the Tariff Regulations, 2011 with respect to computation of generation energy.

a) Normative Annual Plant Availability Factor

No.	Station Particular	Norm
1	<i>Storage and pondage type plants: where plant availability is not affected by silt and</i>	
<i>a</i>	<i>with head variation between Full Reservoir Level (FRL) and Minimum Draw Down Level (MDDL) of upto 8 %</i>	90 %
<i>b</i>	<i>with head variation between FRL and MDDL of more than 8%</i>	$(\text{Head at MDDL}/\text{Rated Head}) \times 0.5 + 0.2$
2	<i>Pondage type plant</i>	<i>where plant availability is significantly affected by silt - 85%</i>
3	<i>Run –of- River type plants</i>	<i>NAPAF to be determined plant-wise, based on 10-day design energy data, moderated by past experience where available / relevant.</i>

Note:

(i) A further allowance may be made by the Commission under special circumstances, eg. Abnormal silt problem or other operating conditions, and known plant limitations.

(ii) A further allowance of 5 % may be allowed for difficulties in the North East Region.

(iii) In case of new hydro electric project the developer shall have the option of approaching the Commission in advance for further above norms.

b) Auxiliary Consumption

No	Station Particular	Norm
1	<i>Surface hydro electric power generating stations with rotating exciters mounted on the generator shaft</i>	<i>0.7% of energy generated</i>
2	<i>Surface hydro electric power generating stations with static excitation system</i>	<i>1.0% of energy generated</i>
3	<i>Underground hydro electric power generating stations with rotating exciters mounted on the generator shaft</i>	<i>0.9% of energy generated</i>
4	<i>Underground hydro electric power generating</i>	<i>1.2% of energy generated</i>

	<i>stations with static excitation system</i>	
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c) Transformation Losses

From generation voltage to transmission voltage0.5% of energy generated.

3.4.2 Design Energy – Existing Generating Stations

The design energy for MePGCL power stations is provided in the table below:

Table 5: Design Energy

Name of Power Station	Design Energy (MU)
Umiam Stage I	60.70
Umiam Stage II	29.50
Umiam Stage III	115.30
Umiam Stage IV	129.50
Umtru Power Station	82.30
Micro Hydrel (Sonapani)	6.43

The monthwise and station wise design energy is provided in the Formats HG3 & HG4.

3.4.3 Computation of Energy Generation - Existing Stations

3.4.3.1 The computation of hydro power generation requires Design Energy, Capacity Index, Details of Reservoir levels, Head details, Past Availability details, features of the hydro power plants in terms of type of plant, type of excitation etc which are provided in the table below:

Table 6: Features of Hydro Power Plants

Sr. No.	Particulars	Umtru	Umiam-I	Umiam-II	Umiam-III	Umiam-IV	Micro Hydrel (Sonapani)
1	Type of Station						
a	<i>Surface/ Underground</i>	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE
b	<i>Purely ROR/ Pondage/ Storage</i>	ROR	STORAGE	POWER CHANNEL (Pondage)	PONDAGE	PONDAGE	ROR
c	<i>Peaking/Non Peaking</i>	NON PEAKING	NON PEAKING	NON PEAKING	NON PEAKING	NON PEAKING	NON PEAKING
d	<i>No. of hours Peaking</i>	NA	NA	NA	NA	NA	NA
e	<i>Overload Capacity (MW) & Period</i>	NIL	NIL	NIL	NIL	NIL	NA
2	Type of Excitation						
a	<i>Rotating excitors on Generator</i>	Rotating excitors on Generator	Rotating excitors on Generator	Rotating excitors on Generator	Rotating excitors on Generator	NA	Rotating excitors on Generator
b	<i>Static excitation</i>	NA	NA	NA	NA	Static Excitation	NA

3.4.3.2 Computation of NAPAF for Storage and Pondage type plants:

Based on the above details and the norms specified by Tariff Regulations, 2011, the computation of NAPAF for Storage and Pondage type hydro generating stations is carried out as under:

Table 7: Computation of Head Variation for Storage & Pondage plants

Name of Power Station	FRL (mtrs)	MDDL (mtrs)	Maximum Head	Minimum Head	% Head Variation
Umiam Stage I	981.46	960.12	169.0	130.0	23.08%
Umiam Stage II	804.06	800.85	81.7	75.1	8.06%
Umiam Stage III	679.70	672.05	162.0	146.0	9.88%
Umiam Stage IV	503.00	496.00	162.0	131.0	19.14%

For all power stations, the head variation between FRL and MDDL is more than 8%. Hence, an allowance is to be provided in NAPAF as indicated in the table below:

Table 8: Computation of NAPAF for Storage & Pondage plants

Name of Power Station	% Head Variation	Rated Head	Head at MDDL (Min Head)	NAPAF (Head at MDDL / Rated head) x 0.5+0.2
Umiam Stage I	23.08%	145.0	130.0	64.83%
Umiam Stage II	8.06%	77.7	75.1	68.35%
Umiam Stage III	9.88%	150.0	146.0	68.67%
Umiam Stage IV	19.14%	140.0	131.0	66.79%

3.4.3.3 Computation of NAPAF for Pondage type plants: Pondage type plants where plant availability is significantly affected by silt is 85% is as per norms provided in Tariff Regulations, 2011. Umtru is the only plant under this category and accordingly, MePGCL is projecting NAPAF of **85.00%** as per regulations. However considering further allowance of 5% for difficulties in north east region, the proposed NAPAF for Umtru is **80.00%**.

3.4.3.4 Computation of NAPAF for Run of River type plants: As per regulations, the NAPAF for Run of River type plants is to be determined based on 10-day design energy data, moderated by past experience wherever relevant. From the existing power plants, only Sonapani belongs to purely Run of River project category. Therefore, based on the past records and as per norm given in regulation, the NAPAF works out to **50.00%**. However considering further allowance of 5% for difficulties in north east region, the proposed NAPAF for Sonapani is **45.00%**.

3.4.3.5 In view of the above, a further allowance of 5% may be allowed by the Hon'ble Commission for all the MePGCL Power stations as indicated below:

Table 9: Proposed NAPAF for MePGCL Power Stations for FY 2013-14

Name of Power Station	NAPAF (%) as per workings	NAPAF (%) with 5% allowance
Umiam Stage I	64.83%	59.83%
Umiam Stage II	68.35%	63.35%
Umiam Stage III	68.67%	63.67%
Umiam Stage IV	66.79%	61.79%
Umtru Power Station	85.00%	80.00%
Micro Hydel (Sonapani)	50.00%	45.00%

3.4.3.6 The station-wise Net Generation for FY 2012-13 and FY 2013-14 are provided in the table below:

Table 10: Station wise Net Generation FY 2012-13

Sr. No.	Name of Power Station	Gross Generation (MU)	Aux Cons (%)	Transformation Loss (%)	Aux Cons & Transformation Loss (MU)	Net Generation (MU)
1	Umiam Stage I	110.22	0.70%	0.50%	1.32	108.90
2	Umiam Stage II	55.33	0.70%	0.50%	0.66	54.67
3	Umiam Stage III	138.01	0.70%	0.50%	1.66	136.35
4	Umiam Stage IV	194.41	1.00%	0.50%	2.92	191.49
5	Umtru Power Station	25.20	0.70%	0.50%	0.30	24.90
6	Micro Hydel (Sonapani)	5.44	0.70%	0.50%	0.07	5.37
7	Total	528.61			6.93	521.68

Table 11: Station wise Net Generation FY 2013-14

Sr. No.	Name of Power Station	Gross Generation (MU)	Aux Cons (%)	Transformation Loss (%)	Aux Cons & Transformation Loss (MU)	Net Generation (MU)
1	Umiam Stage I	108.30	0.70%	0.50%	1.30	107.00
2	Umiam Stage II	54.66	0.70%	0.50%	0.66	54.00
3	Umiam Stage III	133.60	0.70%	0.50%	1.60	132.00
4	Umiam Stage IV	201.02	1.00%	0.50%	3.02	198.00
5	Umtru Power Station	26.32	0.70%	0.50%	0.32	26.00
6	Micro Hydel (Sonapani)	6.07	0.70%	0.50%	0.07	6.00
7	Total	529.96			6.96	523.00

3.4.3.7 The station wise summary for generation for FY 2011-12, FY 2012-13 and FY 2013-14 is presented below:

Table 12: Station wise Summary of Generation FY 12 to FY 14

Sr. No.	Name of Power Station	FY 2011-12 (Pre-audit)	FY 2012-13 (Estimated)	FY 2013-14 (Projected)
1	Umiam Stage I	109.62	110.22	108.30
2	Umiam Stage II	13.00	55.33	54.66
3	Umiam Stage III	129.26	138.01	133.60
4	Umiam Stage IV	206.63	194.41	201.02
5	Umtru Power Station	38.41	25.20	26.32
6	Micro Hydrel (Sonapani)	6.07	5.44	6.07
7	Gross Generation (MU)	502.98	528.61	529.96
8	Auxiliary consumption & Transformation Loss (MU)	7.04	6.93	6.96
9	Net Generation (MU)	495.94	521.68	523.00

3.4.3.8 MePGCL submits before the Hon'ble Commission to kindly approve the total net generation as shown in table above for existing power stations of MePGCL.

3.5 Components of Tariff

The Regulation 52 provides for components of tariff which is extracted below for reference.

52. Components of tariff

(1) Tariff for supply of electricity from a hydro power generating station shall comprise of two parts, namely, annual capacity charges and energy charges to be in the manner provided hereinafter.

(2) The fixed cost of a generating station eligible for recovery through annual capacity charges shall consist of:

- (a) Return on equity as may be allowed*
- (b) Interest on Loan Capital;*
- (c) Operation and maintenance expenses;*
- (d) Interest on Working Capital;*
- (e) Depreciation as may be allowed by the Commission.*
- (f) Taxes on Income*

Accordingly, MePGCL computes and provides herewith various cost elements for determination of tariff.

3.6 Gross Fixed Assets

The provisional Gross Fixed Assets (GFA) as on 31st March 2012 for segregated entity of Generation Company is Rs. **314.82** Crores. As submitted earlier in para **2.1.4**, (approach for determining station wise project cost or GFA); MePGCL is hereby computing GFA for Old Projects and other plants.

3.6.1 Determination of Station-wise Gross Fixed Assets

3.6.1.1 It is submitted that MePGCL has attempted to bifurcate station wise GFA for existing & new projects. The table below provides station wise GFA as on 31.03.2012.

Table 13: Station wise Gross Fixed Assets – Old Stations

Particulars	GFA (Rs.Crs)
Value of Gross Fixed Assets as on 31.03.12	314.82
Less: Station wise Project Cost	
<i>Micro Hydel (Sonapani)</i>	10.86
Balance cost for Old Projects (Umiam Stage I to IV & Umtru)	303.96

3.6.2 Closing Station-wise Gross Fixed Assets for FY 2013-14

3.6.2.1 Based on the above computed station wise GFA as on 1.04.2012, the closing GFA for FY 2013-14 are worked out considering additions / R&M for each station. The table below provides station wise closing GFA for FY 2013-14.

Table 14: Station wise Closing Gross Fixed Assets – Old Stations

Particulars	Old Projects (Rs.Crs)	Sonapani (Rs.Crs)	Total (Rs.Crs)
Opening GFA as on 1.4.2012	303.96	10.86	314.82
Add: Additions to GFA during FY 2012-13	-	-	-
Less: Retirements to GFA during FY 2012-13	-	-	-
Closing GFA as on 31.3.2013	303.96	10.86	314.82
Opening GFA as on 1.4.2013	303.96	10.86	314.82
Add: Additions to GFA during FY 2013-14	-	-	-
Less: Retirements to GFA during FY 2013-14	-	-	-
Closing GFA as on 31.3.2014	303.96	10.86	314.82

3.6.2.2 MePGCL submits before the Hon'ble Commission to kindly approve the computed

station wise Gross Fixed Assets for FY 2013-14.

3.7 Determination of Return on Equity

The relevant regulations for determination of debt-equity ratio are extracted for reference as below:

51. Debt equity ratio

1) For the purpose of determination of tariff, debt-equity ratio in the case of a new generating station commencing commercial operations after the notification of these regulations shall be 70:30. Where equity employed is more than 30%, the amount of equity for the purpose of tariff shall be limited to 30% and the balance shall be treated as normative loan. Where actual equity employed is less than 30%, the actual equity employed shall be considered.

2) In the case of existing generating stations the debt equity ratio as per the Balance Sheet on the date of the Transfer notification will be the debt equity ratio for the first year of operation, subject to such modification as may be found necessary upon audit of the accounts if such Balance Sheet is not audited.

3.7.1 As per State Government Notification No. 37 dated 31.03.12, equity for MePGCL has been notified at Rs 248.4 Crores and the same is considered as equity of old assets except Sonapani for calculation of RoE. The equity notified is shown at page no. 378 of the above notification attached as ANNEXURE-I.

3.7.2 The relevant regulations for computation of return on equity are extracted for reference as below:

53. Return on Equity

(1) Return on equity shall be computed on the equity base determined in accordance with regulation 51 and shall not exceed 14 %.

Provided that incase if projects commissioned after notification of these Regulations an additional return of 0.5 % shall be allowed if such projects are completed within the time line specified in CERC Tariff Regulations, 2009. (Refer Annuxure-1)

Provided that in case of projects commissioned after the notification of these regulations an additional return of 1.5 % shall be allowed if such projects are completed within the original sanctioned project cost without any time or cost overrun, whatsoever.

Provided that equity invested in a foreign currency may be allowed a return up to the prescribed limit in the same currency and the payment on this account shall be made in Indian Rupees based on the exchange rate prevailing on the due date of billing.

(2) The premium received while issuing share capital shall be treated as a part of equity provided the same is utilized for meeting capital expenditure.

(3) Internal resources created out of free reserves and utilized for meeting the capital expenditure shall also be treated as a part of equity.

(4) Foreign equity will also attract the same rate of return.

3.7.3 It is submitted that MePGCL has considered the Return on Equity (RoE) at the rate of 14%. The table below provides herewith the station wise computation of RoE for FY 2013-14.

Table 15: Return on Equity for FY 2013-14 – Old Stations

Particulars	Unit	Old Assets	Sonapani	Total
Total Equity Amount	Rs.Crs	248.40	4.11	252.51
Equity Amount Considered for RoE	Rs.Crs	91.19	3.26	94.45
Return on Equity	%	14%	14%	
Return on Equity	Rs.Crs	12.77	0.46	13.22

Note: For old assets including Sonapani the actual equity is more than 30% of the total GFA. Hence for calculation of RoE, Equity is limited to 30%

3.7.4 MePGCL submits before the Hon'ble Commission to kindly approve the RoE of Rs. **13.22** Crs for FY 2013-14 for existing generating stations including Sonapani.

3.8 Long Term Loans and Interest on Long Term Loans

The relevant regulations for computation of long term loans and interest thereon are extracted for reference as below:

54. Interest and finance charges on loan capital

(1) Interest and finance charges on loan capital shall be computed on the outstanding loans, duly taking into account the schedule of loan repayment, terms and conditions of loan agreements, bond or debenture and the lending rate prevailing therein.

Provided that the outstanding loan capital shall be adjusted to be consistent with the loan amount determined in accordance with Regulation 51.

(2) The interest and finance charges attributable to Capital Work in Progress shall be excluded.

(3) The generating company shall make every effort to swap loans as long as it results in net benefit to the beneficiaries. The costs associated with such swapping shall be borne by the beneficiaries.

(4) The changes to the loan terms and conditions shall be reflected from the date of such swapping and benefit shared between the beneficiaries and the generating company in a ratio as may be specified by the Commission as envisaged in Regulation 13.2.

(5) In case any moratorium period is availed of by the generating company, depreciation provided for in the tariff during the years of moratorium shall be treated as repayment during those years and interest on loan capital shall be calculated accordingly.

3.8.1 It is submitted that as discussed in para **2.1.4**, the interest on long term loans is claimed only for projects which have actual loan outstanding. According to the records and information, there is no outstanding loan for Old Projects except for R & M of Umiam Stage I & II. However the loan for R & M of Stage I & II will be paid by Central Government and also Loan Agreement provides for moratorium period of 10 years on both Principle and Interest payment. Therefore no Interest on Loan is claimed for old projects.

3.9 Depreciation

The relevant regulations for computation of depreciation are extracted for reference as below:

Regulation 57 - Depreciation

(a) The asset value for the purpose of depreciation shall be the capital cost of the assets as admitted by the Commission where the opening asset's value recorded in the Balance Sheet as per the Transfer Scheme Notification shall be deemed to have been approved, subject to such modifications as may be found necessary upon audit of the accounts, if such a Balance Sheet is not audited.

(f) Depreciation shall be calculated annually as per straight – line method at the rates specified in Appendix-III of CERC (Terms and Conditions of Tariff) of Regulations, 2009.

(g) The remaining depreciable value as on 31st March of the year closing after a period of 12 years from the date of commercial operation shall be spread over the balance useful life of the asset.

(i) Depreciation shall be chargeable from the first year of commercial operation. In case of commercial operation of the asset for part of the year, depreciation shall be charged on pro-rata basis.

3.9.1 **Determination of Deprecation for old assets:** It is submitted that as shown in **Table 1**, the useful life for old Generating stations except for R & M of Umiam Stage-I and Umiam Stage-IV, is already completed. Therefore no depreciation is proposed on below projects/ assets.

- Stage I
- Stage II
- Stage III
- Umtru

3.9.2 **Determination of Depreciation for Sonapani (Micro Hydel):** It is submitted that the depreciation for Sonapani (Micro Hydel) is computed considering available project cost and depreciation as per Tariff Regulations, 2011. The table below provides depreciation for Sonapani (Micro Hydel) for FY 2013-14.

Table 16: Depreciation for Sonapani (Micro Hydel) for FY 2013-14

Particulars	Unit	Unit	Rs. Crs
Project Cost (After deducting temporary construction)	Rs.Crs	a	10.60
Depreciable Asset Value @ 90%	Rs.Crs	b =a * 90%	9.54
Depreciation Rate as per Appendix-III	%	c	5.28%
Depreciation value for FY 2013-14	Rs.Crs	d=c *a	0.50

3.9.2.1 MePGCL submits before the Hon'ble Commission to kindly approve the total depreciation of Rs. **14.61** Crores for FY 2013-14 for existing generating stations as summarized in below table.

Table 17: Total Depreciation for Existing Stations for FY 2013-14

Particulars	Rs. Crs
Depreciation for Old Assets	14.11
Depreciation for Sonapani	0.50
Total Depreciation	14.61

3.10 Operation & Maintenance expenses (O & M expenses)

The relevant regulations for computation of O&M expenses are extracted for reference as below:

Regulation 55 - Operation & Maintenance expenses

(1) Operation and Maintenance Expenses (O & M Expenses) shall mean the total of all expenditure under the following heads: -

(a) Employee Cost

(b) Repairs and Maintenance

(c) Administration and General Expenses.

(2) O & M expenses shall include employee cost, repairs & maintenance and Administration & General expenses. O & M expenses for the existing generating stations, which have been in operation for 5 years or more in the base year 2007-08 shall be derived on the basis of actual operation and maintenance expenses for the year 2003-04 to 2007-08, based on the audited accounts, excluding abnormal operation and maintenance expenses, if any, after prudent check by the Commission.

(3) The normalized operation and maintenance expenses after prudent check, for the years 2003-04 to 2007-08, shall be escalated at the rate of 5.17% to arrive at the normalized operation and maintenance expenses at the 2007-08 price level and then averaged to arrive at normalized O&M expenses for 2003-04 to 2007-08 price level. The average normal O&M expenses at 2007-08 price level shall be escalated at the rate of 5.72% to arrive at the O&M expenses for the year 2009-10.

(4) The O&M expenses for the year 2009-10 shall be further rationalized considering 50% increase in employee cost on account of pay revision of employees to arrive at the permissible O&M expenses for the year 2009-10.

(5) The O&M expenses for 2009-10 shall be escalated further at the rate of 5.72% per annum as arrive at the operation and maintenance expenses for the subsequent years of the tariff period.

(6) In case of the hydro generating stations, which have not been in commercial operation for a period of five years as on 1.4.2009, operation and maintenance expenses shall be fixed at 2% of the original project cost (excluding cost of rehabilitation & resettlement works). Further, in such case, operation and maintenance expenses in first year of commercial operation shall be escalated @5.17% per annum up to the year 2007-08 and then averaged to arrive at the O&M

expenses at 2007-08 price level. It shall be thereafter escalated @ 5.72% per annum to arrive at operation and maintenance expenses in respective year of the tariff period. (The impact of pay revision on employee cost for arriving at the operation and maintenance expenses for the year 2009-10 shall be considered in accordance with the procedure given in proviso to sub-clause (ii) of clause (f) of this regulation).

(7) In case of hydro generating stations declared under commercial operation on or after 01/04/2009, O&M expenses shall be fixed at 2% of the original project cost (excluding cost of rehabilitation and resettlement works) and shall be subject to annual escalation at 5.72% for the subsequent years.

3.10.1 The above regulations classify operation and maintenance expenses in three categories:

- Hydro Generating Stations in operation for a period of **more than 5 years as on 1.4.2009; (say Category 'A')**
- Hydro Generating Stations in operation for a period of **less than 5 years as on 1.4.2009; (say Category 'B')**
- Hydro Generating Stations declared under commercial operation on or after 1.4.2009; **(say Category 'C')**

3.10.2 Accordingly, MEPGCL has categorized its power station for computation of O&M expenses.

Table 18: Classification of Hydro Projects for O&M Purpose

No.	Name of Station	No. of Units	Capacity (MW)	Total Capacity (MW)	COD	Project Classification
1.	Umiam Stage I	I	9	36	21.02.1965	A
		II	9		16.03.1965	A
		III	9		06.09.1965	A
		IV	9		09.11.1965	A
2.	Umiam Stage II	I	10	20	22.07.1970	A
		II	10		24.07.1970	A
3.	Umiam Stage III	I	30	60	6.01.1975	A
		II	30		30.03.1979	A
4.	Umiam Stage IV	I	30	60	16.09.1992	A
		II	30		11.08.1992	
5.	Umtru Power Station	I	2.8	11.2	01.04.1957	A
		II	2.8		01.04.1957	A

No.	Name of Station	No. of Units	Capacity (MW)	Total Capacity (MW)	COD	Project Classification
		III	2.8		01.04.1957	A
		IV	2.8		12.07.1968	A
6.	Micro Hydel (Sonapani)	I	1.5	1.5	27.10.2009	C
	Total			186.7		

3.10.3 As can be seen from the above table, MePGCL projects fall under category 'A' and 'C'. Accordingly, MePGCL has computed O&M expenses for FY 2013-14 for these projects.

3.10.4 The O&M expenses for Category 'A' needs to be computed based on past data for FY 2003-04 to FY 2007-08. The O&M expenditure for Category 'A' is computed as per Regulation 55(2), 55(3), 55(4) and 55(5) of Tariff Regulations, 2011.

3.10.5 It is submitted that as per Audited Accounts Statement-6, the data for elements of O&M is extracted and average base value figures are derived at for FY 2007-08. The Statement-6 provides function wise analysis of O&M elements into Generation, Transmission, Distribution and Others (Stores organization & Management & Administration). Hence the O&M expenses classified/ related to Others are further allocated/ apportioned to Generation, Transmission & Distribution (GTD) in the ratio of GTD expenses. The table below provides the extract of O&M expenses from FY 2003-04 to FY 2007-08 for GTD and computation of GTD Ratio.

Table 19: Computation of GTD Ratio of O&M Expenses (FY04 to FY08)

O & M Expenditure - Generation (As per Audited Accounts - Statement 6)					
Particulars	FY'04	FY'05	FY'06	FY'07	FY'08
Repairs & Maintenance	3.43	3.74	4.07	6.98	6.52
Employee Costs	5.58	6.08	7.29	17.00	14.55
Administration and General Expenses	0.39	1.18	0.67	1.36	1.95
Total - Rs.Crores	9.40	11.00	12.03	25.34	23.02
O & M Expenditure - Transmission (As per Audited Accounts - Statement 6)					
Particulars	FY'04	FY'05	FY'06	FY'07	FY'08
Repairs & Maintenance	2.98	2.23	0.94	0.95	1.57
Employee Costs	4.98	6.08	5.39	6.33	7.39
Administration and General Expenses	0.40	1.18	0.52	0.55	0.99
Total - Rs.Crores	8.36	9.49	6.85	7.83	9.95

O & M Expenditure - Distribution (As per Audited Accounts - Statement 6)					
Particulars	FY'04	FY'05	FY'06	FY'07	FY'08
Repairs & Maintenance	0.06	3.93	6.85	4.33	9.04
Employee Costs	26.48	26.60	29.03	32.15	39.91
Administration and General Expenses	1.45	1.48	1.82	2.44	2.54
Total - Rs.Crores	27.99	32.01	37.70	38.92	51.49
Total O & M Expenditure - (GTD) and Computation of GTD Ratio					
Particulars	FY'04	FY'05	FY'06	FY'07	FY'08
Generation	9.40	11.00	12.03	25.34	23.02
Transmission	8.36	9.49	6.85	7.83	9.95
Distribution	27.99	32.01	37.70	38.92	51.49
Total - Rs.Crores	45.75	52.50	56.58	72.08	84.46
Generation - Ratio	21%	21%	21%	35%	27%
Transmission - Ratio	18%	18%	12%	11%	12%
Distribution - Ratio	61%	61%	67%	54%	61%
Total	100%	100%	100%	100%	100%

3.10.6 The table below provides details of O&M expenses for Others i.e. Stores Organisation, Management & Administration.

Table 20: O&M Expenses – Others (FY 04 to FY08)

O & M Expenditure - Others (As per Audited Accounts - Statement 6)					
Particulars	FY'04	FY'05	FY'06	FY'07	FY'08
Repairs & Maintenance	0.34	0.21	0.14	0.35	0.10
Employee Costs	24.13	25.63	29.97	27.11	34.07
Administration and General Expenses	1.42	1.35	1.67	2.13	1.83
Total - Rs.Crores	25.89	27.19	31.78	29.59	36.00

3.10.7 The table below provides the allocation of Others O&M expenses to Generation function in the computed Generation, Transmission & Distribution (GTD) ratio.

Table 21: Allocation of Other O&M Expenses to Generation (FY 04 to FY08)

Allocation of Others O & M Expenditure to Generation as per GTD Ratio					
Particulars	FY'04	FY'05	FY'06	FY'07	FY'08
Repairs & Maintenance	0.07	0.04	0.03	0.12	0.03
Employee Costs	4.96	5.37	6.37	9.53	9.29
Administration and General Expenses	0.29	0.28	0.35	0.75	0.50
Total	5.32	5.70	6.76	10.40	9.81

3.10.8 The total of O&M expenses for Generation function after allocation of others cost for FY 2003-04 to FY 2007-08 is presented in table below:

Table 22: Total of O&M Expenses for Generation after Allocation (FY 04 to FY08)

Total of O & M Expenditure for Generation after Allocation					
Particulars	FY'04	FY'05	FY'06	FY'07	FY'08
Repairs & Maintenance	3.50	3.78	4.10	7.10	6.55
Employee Costs	10.54	11.45	13.66	26.52	23.84
<i>Less: Employee Expenses Capitalised</i>	<i>0.54</i>	<i>0.87</i>	<i>1.18</i>	<i>2.04</i>	<i>1.86</i>
Net Employee Cost	9.99	10.58	12.48	24.49	21.97
Administration and General Expenses	0.68	1.46	1.02	2.11	2.45
<i>Less: A & G Expenses Capitalised</i>	<i>0.22</i>	<i>0.40</i>	<i>0.29</i>	<i>0.55</i>	<i>0.99</i>
Net A & G Expenses	0.46	1.06	0.74	1.56	1.46
Total	13.96	15.42	17.32	33.15	29.97

3.10.9 The computation of base value after averaging for above 5 years and escalating by 5.17% to arrive at normalized price level of FY 2007-08 is presented in the table below:

Table 23: Computation of O&M Expenses for Generation at Base Level FY 2007-08

Computation of Base O&M Expenses for Generation at FY 2007-08 Level							
Particulars	FY'04	FY'05	FY'06	FY'07	FY'08	Average of 5 Years	Base Value after 5.17% increase
R&M Expenses	3.50	3.78	4.10	7.10	6.55	5.01	5.27
Employee Costs	9.99	10.58	12.48	24.49	21.97	15.90	16.72
A&G Expenses	0.46	1.06	0.74	1.56	1.46	1.06	1.11
Total	13.96	15.42	17.32	33.15	29.97	21.96	23.10

3.10.10 Further the computation of O&M expenses for FY 2013-14 after considering 50% increase in employee cost for FY 2009-10 and escalating by 5.72% every year is computed as per Regulation 55(4) and 55(5) of Tariff Regulations 2011. The table below provides details of O&M expenses for FY 2013-14.

Table 24: O&M Expenses for Generation for FY 2013-14 (Category A)

Particulars	O&M for FY 09 after 5.72% escalation	50% Increase in Employee Cost for FY 10	Revised figures after increase	O&M for FY 10 after 5.72% escalation	O&M for FY 11 after 5.72% escalation	O&M for FY 12 after 5.72% escalation	O&M for FY 13 after 5.72% escalation	O&M for FY 14 after 5.72% escalation
R&M Expenses	5.57	-	5.57	5.89	6.22	6.58	6.95	7.35
Employee Costs	17.68	8.84	26.52	28.04	29.64	31.34	33.13	35.02
A&G Expenses	1.17	-	1.17	1.24	1.31	1.39	1.47	1.55
Total	24.42	8.84	33.26	35.16	37.17	39.30	41.55	43.93

3.10.11 MePGCL submits before the Hon'ble Commission to kindly approve the O&M expenses of Rs. **43.93** Crores for FY 2013-14 for existing generating stations of 'A' category.

3.10.12 The O&M expenses for **Category 'C'** of power station i.e. Sonapani (Micro Hydel) is to be computed as per Regulation 55 (7) of Tariff Regulations, 2011.

(7) In case of hydro generating stations declared under commercial operation on or after 01/04/2009, O&M expenses shall be fixed at 2% of the original project cost (excluding cost of rehabilitation and resettlement works) and shall be subject to annual escalation at 5.72% for the subsequent years.

3.10.13 The table below provides the computation of O&M expenses for Sonapani for FY 2013-14.

Table 25: O&M Expenses for Generation for FY 2013-14 (Category C)

Particulars	Rs.Crs
Project Cost	10.86
O&M Expenses for FY 2009-10 (2% of PC)	0.22
O&M Expenses for FY 2010-11 (5.72% escalation over prev. year)	0.23
O&M Expenses for FY 2011-12 (5.72% escalation over prev. year)	0.24
O&M Expenses for FY 2012-13 (5.72% escalation over prev. year)	0.26
O&M Expenses for FY 2013-14 (5.72% escalation over prev. year)	0.27

3.10.14 MePGCL submits before the Hon'ble Commission to kindly approve the O&M expenses of Rs. **0.27** Crores for Sonapani.

3.10.15 The table below summarises O&M expenses for existing generating stations for FY 2013-14.

Table 26: Total O&M Expenses for Existing Stations for FY 2013-14

Particulars	Rs.Crs
O&M Exp - Category A (Old Assets)	43.93
O&M Exp - Category C	0.27
Total O&M Expenses	44.20

3.10.16 MePGCL submits before the Hon'ble Commission to kindly approve the total

O&M expenses of Rs. **44.20** Crores for existing generating stations for FY 2013-14.

3.11 Interest on Working Capital

3.11.1 The relevant regulations for computation of working capital and interest on working capital thereon are extracted for reference as below:

Regulation 56

(1) Working Capital shall cover:

- 1) Operation and Maintenance expenses for one month;
- 2) Maintenance spares at the rate of 15% of operation and maintenance expenses specified in Regulation 55 above escalated at the rate of 6% per annum from the date of commercial operation and
- 3) Receivables equivalent to two months of fixed cost.

(2) Rate of interest on working capital shall be on normative basis and shall be equal to the short-term Prime Lending Rate of State Bank of India as on 1st April of the financial year for which the generating station files petition for annual Revenue Requirement and tariff proposal. The interest on working capital shall be calculated on normative basis notwithstanding that the generating company has not taken working capital loan from any outside agency.

3.11.2 The computation of working capital and interest on working capital for FY 2013-14 as per above regulation is provided in the table below:

Table 27: Interest on Working Capital for FY 2013-14

Particulars	Old Assets	Sonapani	Total (Rs.Crs)
O & M Expenses for 1 month	3.66	0.023	3.68
Maintenance Spares @15% of O&M plus escalated by 6%	6.98	0.043	7.03
Receivables @ 2 months of Fixed Cost	12.56	0.214	12.77
Total Working Capital requirement	23.21	0.279	23.48
Computation of working capital interest			
SBI PLR as on 1.4.2012 (%)	14.75%	14.75%	
Interest on Working Capital	3.42	0.041	3.46

3.11.3 MePGCL submits before the Hon'ble Commission to kindly approve Interest on working capital of Rs. **3.46** Crores for FY 2013-14.

3.12 Tax on Income

3.12.1 The Regulation 58 of Tariff Regulations 2011 provide for claim of Income Tax as expenses. However MePGCL submits that since this being first independent filing for generation function and also due to fact that audited accounts of segregated are in process, income tax shall be claimed in subsequent filings in annual performance review/ true-up.

3.13 Connectivity and SLDC Charges

3.13.1 The Regulation 61 of Tariff Regulations 2011 provides for claim of SLDC & Connectivity charges as expenses. MePGCL submits as per information received from SLDC the SLDC charge applicable to the Existing Generating Stations is as mentioned below:

Table 28: SLDC Charges applicable to existing generating stations

Sl. No	Particular	Annual SLDC Charge (Rs Cr)
1	Umiam Stage I	0.23
2	Umiam Stage II	0.13
3	Umiam Stage III	0.38
4	Umiam Stage IV	0.38
5	Umtru Power Station	0.08
6	Micro Hydel (Sonapani)	0.01

3.14 Summary of Annual Fixed Cost – Existing Generating Stations

3.14.1 The summary of the Annual Fixed Cost for the existing generating stations is provided in the table below:

Table 29: Station Wise Annual Fixed Cost – Existing Stations FY 2013-14

Particulars	Old Assets	Sonapani	Total (Rs.Crs)
Interest on Loan capital	-	-	-
Depreciation	14.11	0.50	14.61
O&M Expenses	43.93	0.27	44.20
Interest on working capital	3.42	0.04	3.46
Return on Equity	12.77	0.46	13.22
Income Tax	-	-	-
SLDC Charge	1.19	0.01	1.20
Total Annual Fixed Cost	75.41	1.28	76.69
Less: Non Tariff Income	0.05	-	0.05
Net Annual Fixed Cost	75.36	1.28	76.64

3.14.2 MePGCL submits before the Hon'ble Commission to kindly approve the Annual Fixed Cost of Rs. **76.64** Crores for FY 2013-14 for existing generating stations.

4 Provisional Capital Cost and Tariff Determination – Leshka

Regulation 47 – Tariff Filing

(2) (a) In case of a new generating station, a generating company shall file petition for determination of provisional tariff in advance of the anticipated date of commissioning of a generating station based on the capital expenditure actually incurred up to the date of making the petition or a date prior to making of the petition, duly audited and certified by the statutory auditors and the provisional tariff shall be charged from the date of commercial operation of the generating station.

(b) A generating company shall file a fresh petition as per these regulations, for determination of final tariff of a generating station mentioned in clause (2) above based on actual capital expenditure incurred up to the date of commercial operation of the generating station duly certified by the statutory auditors based on annual audited accounts.

(3) Any difference between the provisional tariff and the final tariff determined by the Commission and not attributable to the generating company may be adjusted in the tariff for the following year as directed by the Commission.

Based on the above provisions, tariff petition is submitted determination of Provisional Tariff for Leshka HEP.

4.1 Provisional capital Cost:

Regulation 49 – Capital Cost

(2) Scrutiny of cost estimates by the Commission shall be limited to the reasonableness of the capital cost, financial plan, and interest during construction period, use of efficient technology, and such other matters for determination of tariff.

(6) The project cost already admitted by the Commission for purpose of tariff determination shall be considered as the original project cost.

Based on the above provisions, estimated Project Cost is submitted to Hon'ble Commission for approval.

Table 30: Details of Project Cost - Leshka

Particulars	Amount Rs. Crs
Land	22.08
Buildings	34.85
Hydraulic Works	714.26
Other Civil Works	97.55
Plant & Machinery	301.39
Lines & Cables Network	0
Vehicles	1.05
Furniture	0.91
Other Office Equipment	1.04
Total	1173.13

4.2 Tariff determination

Regulation 49 – Tariff Determination

(2) New Generating Station

Where the generating station has been declared under commercial operation from a date after the issue of these regulations the tariff for supply of electricity by the Generating Company shall be decided in accordance with these regulations.

As the commissioning date of Leshka HEP is after issue of these regulations, MePGCL submits this petition to Hon'ble Commission for determination of Generation Tariff as per Tariff Regulations, 2011.

4.3 Computation of Generation Energy

The following sections outline details of operational norms for computation of energy generation for FY 2013-14 based on Tariff Regulations, 2011 or past trend as the case may be.

4.3.1 Operation Norms

The following sections provide the extract of the Tariff Regulations, 2011 with respect to computation of generation energy.

a) ***Normative Annual Plant Availability Factor***

No.	Station Particular	Norm
1	<i>Storage and pondage type plants: where plant availability is not affected by silt and</i>	
<i>a</i>	<i>with head variation between Full Reservoir Level (FRL) and Minimum Draw Down Level (MDDL) of upto 8 %</i>	90 %
<i>b</i>	<i>with head variation between FRL and MDDL of more than 8%</i>	$(\text{Head at MDDL}/\text{Rated Head}) \times 0.5 + 0.2$
2	<i>Pondage type plant</i>	<i>where plant availability is significantly affected by silt - 85%</i>
3	<i>Run –of- River type plants</i>	<i>NAPAF to be determined plant-wise, based on 10-day design energy data, moderated by past experience where available / relevant.</i>

Note:

(i) A further allowance may be made by the Commission under special circumstances, eg. Abnormal silt problem or other operating conditions, and known plant limitations.

(ii) A further allowance of 5 % may be allowed for difficulties in the North East Region.

(iii) In case of new hydro electric project the developer shall have the option of approaching the Commission in advance for further above norms.

b) Auxiliary Consumption

No	Station Particular	Norm
1	<i>Surface hydro electric power generating stations with rotating exciters mounted on the generator shaft</i>	<i>0.7% of energy generated</i>
2	<i>Surface hydro electric power generating stations with static excitation system</i>	<i>1.0% of energy generated</i>
3	<i>Underground hydro electric power generating stations with rotating exciters mounted on the generator shaft</i>	<i>0.9% of energy generated</i>
4	<i>Underground hydro electric power generating stations with static excitation system</i>	<i>1.2% of energy generated</i>

c) Transformation Losses

From generation voltage to transmission voltage0.5% of energy generated.

4.3.2 Design Energy

The design energy of Leshka is 486.23 MUs. The monthwise and station wise design energy is provided in the Format HG3.

4.3.3 Projection of Energy

4.3.3.1 The computation of hydro power generation requires Design Energy, Capacity Index, Details of Reservoir levels, Head details, Past Availability details, features of the hydro power plants in terms of type of plant, type of excitation etc which are provided in the table below:

Table 31: Features of Leshka

Sr. No.	Particulars	Leshka
1	Type of Station	
a	Surface/ Underground	SURFACE
b	Purely ROR/ Pondage/ Storage	ROR
c	Peaking/Non Peaking	NON PEAKING
d	No. of hours Peaking	NA
e	Overload Capacity (MW) & Period	NIL
2	Type of Excitation	
a	Rotating exciters on Generator	Nil
b	Static excitation	Static type

4.3.3.2 **Computation of NAPAF for Run of River type plants:** As per regulations, the NAPAF for Run of River type plants is to be determined based on 10-day design energy data, moderated by past experience wherever relevant. Leshka is a Run of River Project, therefore, based on the past records and as per norm given in regulation, the NAPAF works out to **44%**. However considering further allowance of 5% for difficulties in north east region, the proposed NAPAF for Leshka is **39%**.

Table 32: NAPAF of Leshka

Name of Power Station	Units	Leshka
Design Energy	MUs	486.23
Installed Capacity	MW	126.00
Generation @ 100%	MUs	1103.76
NAPAF (%) as per workings	%	44%
NAPAF (%) with 5% allowance	%	39%

Net Generation for FY 2012-13 and FY 2013-14 are provided in the table below:

Table 33: Generation of Leshka

Year	Gross Generation (MU)	Aux Cons (%)	Transformation Loss (%)	Aux Cons & Transformation Loss (MU)	Net Generation (MU)
FY 2012-13	325.89	1.00%	0.50%	4.89	321.00
FY 2013-14	407.11	1.00%	0.50%	6.11	401.00

4.3.3.3 MePGCL submits before the Hon'ble Commission to kindly approve the total net generation as provided in table above for Leshka HEP.

4.4 Components of Tariff

The Regulation 52 provides for components of tariff which is extracted below for reference.

52. Components of tariff

(1) Tariff for supply of electricity from a hydro power generating station shall comprise of two parts, namely, annual capacity charges and energy charges to be in the manner provided hereinafter.

(2) The fixed cost of a generating station eligible for recovery through annual capacity charges shall consist of:

- (a) Return on equity as may be allowed*
- (b) Interest on Loan Capital;*
- (c) Operation and maintenance expenses;*
- (d) Interest on Working Capital;*
- (e) Depreciation as may be allowed by the Commission.*
- (f) Taxes on Income*

Based on above provisions, MePGCL computes and provides herewith various cost elements for determination of tariff.

4.5 Gross Fixed Assets

The provisional gross fixed asset (GFA) of Leshka is mentioned in **Table 34** below.

Table 34: GFA of Leshka

Particulars	Leshka (Rs.Crs)
Opening GFA as on 1.4.2012	-
Add: Additions to GFA during FY 2012-13	1,173.13
Less: Retirements to GFA during FY 2012-13	
Closing GFA as on 31.3.2013	1,173.13
Opening GFA as on 1.4.2013	1,173.13
Add: Additions to GFA during FY 2013-14	
Less: Retirements to GFA during FY 2013-14	
Closing GFA as on 31.3.2014	1,173.13

4.5.1.1 MePGCL submits before the Hon'ble Commission to kindly approve the computed Gross Fixed Assets of Leshka HEP for FY 2013-14.

4.6 Determination of Return on Equity

4.6.1 The relevant regulations for determination of debt-equity ratio are extracted for reference as below:

51. Debt equity ratio

1) For the purpose of determination of tariff, debt-equity ratio in the case of a new generating station commencing commercial operations after the notification of these regulations shall be 70:30. Where equity employed is more than 30%, the amount of equity for the purpose of tariff shall be limited to 30% and the balance shall be treated as normative loan. Where actual equity employed is less than 30%, the actual equity employed shall be considered.

2) In the case of existing generating stations the debt equity ratio as per the Balance Sheet on the date of the Transfer notification will be the debt equity ratio for the first year of operation, subject to such modification as may be found necessary upon audit of the accounts if such Balance Sheet is not audited.

4.6.2 The financing pattern of Leshka is shown in the table below.

Table 35: Financial Pattern of Leshka HEP

Particulars	Rs Cr	%
Debt	853.11	72.7%
Equity	320.02	27.3%
Total	1,173.13	

4.6.3 The relevant regulations for computation of return on equity are extracted for reference as below:

53. Return on Equity

(1) Return on equity shall be computed on the equity base determined in accordance with regulation 51 and shall not exceed 14 %.

Provided that in case if projects commissioned after notification of these Regulations an additional return of 0.5 % shall be allowed if such projects are completed within the time line specified in CERC Tariff Regulations, 2009. (Refer Annexure-1)

Provided that in case of projects commissioned after the notification of these regulations an additional return of 1.5 % shall be allowed if such projects are completed within the original sanctioned project cost without any time or cost overrun, whatsoever.

Provided that equity invested in a foreign currency may be allowed a return up to the prescribed limit in the same currency and the payment on this account shall be made in Indian Rupees based on the exchange rate prevailing on the due date of billing.

(2) The premium received while issuing share capital shall be treated as a part of equity provided the same is utilized for meeting capital expenditure.

(3) Internal resources created out of free reserves and utilized for meeting the capital expenditure shall also be treated as a part of equity.

(4) Foreign equity will also attract the same rate of return.

4.6.4 As discussed earlier in this section on determination of Debt-Equity ratio, MePGCL has considered the return on equity (RoE) of 14% on the same. The table below provides herewith the computation of RoE for FY 2013-14.

Table 36: Return on Equity for FY 2013-14

Particulars	Unit	Leshka
Equity	Rs Crs	320.02
Return on Equity	%	14%
Return on Equity	Rs Crs	44.80

4.6.5 MePGCL Submits before the Hon'ble Commission to kindly approve the RoE of Rs. **44.80** Crs for FY 2013-14 for Leshka HEP.

4.7 Long Term Loans and Interest on Long Term Loans

The relevant regulations for computation of long term loans and interest thereon are extracted for reference as below:

54. Interest and finance charges on loan capital

(1) Interest and finance charges on loan capital shall be computed on the outstanding loans, duly taking into account the schedule of loan repayment, terms and conditions of loan agreements, bond or debenture and the lending rate prevailing therein.

Provided that the outstanding loan capital shall be adjusted to be consistent with the loan amount determined in accordance with Regulation 51.

(2) The interest and finance charges attributable to Capital Work in Progress shall be excluded.

(3) The generating company shall make every effort to swap loans as long as it results in net benefit to the beneficiaries. The costs associated with such swapping shall be borne by the beneficiaries.

(4) The changes to the loan terms and conditions shall be reflected from the date of such swapping and benefit shared between the beneficiaries and the generating company in a ratio as may be specified by the Commission as envisaged in Regulation 13.2.

(5) In case any moratorium period is availed of by the generating company, depreciation provided for in the tariff during the years of moratorium shall be treated as repayment during those years and interest on loan capital shall be calculated accordingly.

4.7.1 According to the records and information, following are the details of loans for the power station for FY 2013-14.

Table 37: Computation of Loan and Interest on Loans

Particulars	Unit	Leshka
Opening Loan Balance as on 1.4.2012	Rs.Crs	746.83
Add: Addition during year FY12-13	Rs.Crs	102.54
Less: Repayment during FY12-13	Rs.Crs	51.04
Closing Loan Balance as on 31.3.2013	Rs.Crs	798.33
Opening Loan Balance as on 1.4.2013	Rs.Crs	798.33
Add: Addition during year FY13-14	Rs.Crs	35.36
Less: Repayment during FY13-14	Rs.Crs	62.53
Closing Loan Balance as on 31.3.2014	Rs.Crs	771.16
Average Loan Balance for FY 2013-14	Rs.Crs	784.74
Interest Rate	%	11.75%
Interest on Loan	Rs.Crs	92.23

4.8 Depreciation

The relevant regulations for computation of depreciation are extracted for reference as below:

Regulation 57 - Depreciation

(a) *The asset value for the purpose of depreciation shall be the capital cost of the assets as admitted by the Commission where the opening asset's value recorded in the Balance Sheet as per the Transfer Scheme Notification shall be deemed to have been approved, subject to such modifications as may be found necessary upon audit of the accounts, if such a Balance Sheet is not audited.*

(f) *Depreciation shall be calculated annually as per straight – line method at the rates specified in Appendix-III of CERC (Terms and Conditions of Tariff) of Regulations, 2009.*

(g) *The remaining depreciable value as on 31st March of the year closing after a period of 12 years from the date of commercial operation shall be spread over the balance useful life of the asset.*

(i) *Depreciation shall be chargeable from the first year of commercial operation. In case of commercial operation of the asset for part of the year, depreciation shall be charged on pro-rata basis.*

4.8.1 It is submitted that the depreciation for Leshka is computed considering estimated project cost and depreciation on balance useful life of asset. The table below provides depreciation for Leshka for FY 2013-14.

Table 38: Depreciation of Leshka for FY 2013-14

Particulars	Amount Rs. Crs	Depreciation Rate	Depreciation on 90% of Cost FY 2013-14 (Rs Crs)
Land	22.08	0%	-
Buildings	34.85	3.34%	1.05
Hydraulic Works	714.26	5.28%	33.94
Other Civil Works	97.55	3.34%	2.93
Plant & Machinery	301.39	5.81%	15.75
Lines & Cables Network	0	5.28%	-
Vehicles	1.05	9.50%	0.09
Furniture	0.91	6.33%	0.05
Other Office Equipment	1.04	6.33%	0.06
Total	1173.13		53.87

4.8.1.1 MePGCL submits before the Hon'ble Commission to kindly approve the total depreciation of Rs. **53.87** Crores for FY 2013-14 for Leshka HEP as summarized in

above table.

4.9 Operation & Maintenance expenses (O & M expenses)

The relevant regulations for computation of O&M expenses are extracted for reference as below:

Regulation 55 - Operation & Maintenance expenses

(1) Operation and Maintenance Expenses (O & M Expenses) shall mean the total of all expenditure under the following heads: -

- (a) Employee Cost*
- (b) Repairs and Maintenance*
- (c) Administration and General Expenses.*

(7) In case of hydro generating stations declared under commercial operation on or after 01/04/2009, O&M expenses shall be fixed at 2% of the original project cost (excluding cost of rehabilitation and resettlement works) and shall be subject to annual escalation at 5.72% for the subsequent years.

Since Leshka HEP has achieved CoD after 1.04.2009, its O & M expenses has been fixed as per Regulation 55 (7) at 2% of fixed cost and further escalated at 5.72% to arrive at O & M expenses for FY 2013-14

Table 39: O & M Expenses for FY 2013-14

Particulars	Rs.Crs
Project Cost	1,173.13
O&M Expenses for FY 2012-13 (2% of PC)	23.46
O&M Expenses for FY 2013-14 (5.72% escalation over prev. year)	24.80

4.9.1 MePGCL submits before the Hon'ble Commission to kindly approve the O&M expenses of Rs. **24.80** Crores for FY 2013-14.

4.10 Interest on Working Capital

4.10.1 The relevant regulations for computation of working capital and interest on working capital thereon are extracted for reference as below:

Regulation 56

(1) Working Capital shall cover:

- 1) Operation and Maintenance expenses for one month;*

2) Maintenance spares at the rate of 15% of operation and maintenance expenses specified in Regulation 55 above escalated at the rate of 6% per annum from the date of commercial operation and

3) Receivables equivalent to two months of fixed cost.

(2) Rate of interest on working capital shall be on normative basis and shall be equal to the short-term Prime Lending Rate of State Bank of India as on 1st April of the financial year for which the generating station files petition for annual Revenue Requirement and tariff proposal. The interest on working capital shall be calculated on normative basis notwithstanding that the generating company has not taken working capital loan from any outside agency.

4.10.2 The computation of working capital and interest on working capital for FY 2013-14 as per above regulation is provided in the table below:

Table 40: Interest on Working Capital for FY 2013-14

Particulars	Leshka
O & M Expenses for 1 month	2.07
Maintenance Spares @15% of O&M plus escalated by 6%	3.94
Receivables @ 2 months of Fixed Cost	37.14
Total Working Capital requirement	43.15
Computation of working capital interest	
SBI PLR as on 1.4.2012 (%)	14.75%
Interest on Working Capital	6.37

4.10.3 MePGCL submits before the Hon'ble Commission to kindly approve the Interest on working capital of Rs. **6.37** Crores for FY 2013-14.

4.11 Tax on Income

4.11.1 The Regulation 58 of Tariff Regulations 2011 provide for claim of Income Tax as expenses. However MePGCL submits that since this being first independent filing for MePGCL and also due to fact that audited accounts of segregated are in process, income tax shall be claimed in subsequent filings in annual performance review/true-up.

4.12 Connectivity and SLDC Charges

4.12.1 The Regulation 61 of Tariff Regulations 2011 provides for claim of SLDC & Connectivity charges as expenses. MePGCL submits as per information received from

SLDC the SLDC charge applicable to Leshka HEP is Rs **0.79** Cr. MePGCL submits before the Hon'ble Commission to kindly approve the same as part of ARR.

4.13 Summary of Annual Fixed Cost – Leshka

4.13.1 The summary of the Annual Fixed Cost for the existing generating stations is provided in the table below:

Table 41: Annual Fixed Cost FY 2013-14

Particulars	Amount Rs. Crs
Interest on Loan capital	92.23
Depreciation	53.87
O&M Expenses	24.80
Interest on working capital	6.37
Return on Equity	44.80
Income Tax	-
SLDC Charge	0.79
Total Annual Fixed Cost	222.86
Less: Non Tariff Income	-
Net Annual Fixed Cost	222.86

4.13.2 MePGCL submits before the Hon'ble Commission to kindly approve the Annual Fixed Cost of Rs. **222.86** Crores for FY 2013-14 for Leshka HEP.

5 Provisional Capital Cost and Tariff Determination – Lakroh

Regulation 47 – Tariff Filing

(2) (a) In case of a new generating station, a generating company shall file petition for determination of provisional tariff in advance of the anticipated date of commissioning of a generating station based on the capital expenditure actually incurred up to the date of making the petition or a date prior to making of the petition, duly audited and certified by the statutory auditors and the provisional tariff shall be charged from the date of commercial operation of the generating station.

(b) A generating company shall file a fresh petition as per these regulations, for determination of final tariff of a generating station mentioned in clause (2) above based on actual capital expenditure incurred up to the date of commercial operation of the generating station duly certified by the statutory auditors based on annual audited accounts.

(3) Any difference between the provisional tariff and the final tariff determined by the Commission and not attributable to the generating company may be adjusted in the tariff for the following year as directed by the Commission.

Based on the above provisions, tariff petition is submitted determination of Provisional Tariff for Lakroh HEP.

5.1 Provisional capital Cost:

Regulation 49 – Capital Cost

(2) Scrutiny of cost estimates by the Commission shall be limited to the reasonableness of the capital cost, financial plan, and interest during construction period, use of efficient technology, and such other matters for determination of tariff.

(6) The project cost already admitted by the Commission for purpose of tariff determination shall be considered as the original project cost.

Based on the above provisions, provisional Project Cost is submitted to Hon'ble Commission for approval.

Table 42: Details of Project Cost – Lakroh

Particulars	Amount Rs. Crs
Preliminary	0.10
Land & Site development	0.14
Civil Works	9.61
Vehicles	0.12
Electrical Works	5.38
Total Project Cost	15.34

5.2 Tariff determination

Regulation 49 – Tariff Determination

(2) New Generating Station

Where the generating station has been declared under commercial operation from a date after the issue of these regulations the tariff for supply of electricity by the Generating Company shall be decided in accordance with these regulations.

As the Lakroh will be commissioned after the issue of these regulations, MePGCL submits this petition for determination of Tariff.

5.3 Computation of Generation Energy

The following sections outline details of operational norms for computation of energy generation for FY 2013-14 based on MSERC (Terms and Conditions for Determination of Tariff) Regulations, 2011 or past trend as the case may be.

5.3.1 Operation Norms

The following sections provide the extract of the Tariff Regulations with respect to computation of generation energy.

a) Normative Annual Plant Availability Factor

No.	Station Particular	Norm
1	Storage and pondage type plants: where plant availability is not affected by silt and	
a	with head variation between Full Reservoir Level	90 %

No.	Station Particular	Norm
	(FRL) and Minimum Draw Down Level (MDDL) of upto 8 %	
<i>b</i>	with head variation between FRL and MDDL of more than 8%	(Head at MDDL/Rated Head) x 0.5 + 0.2
2	Pondage type plant	where plant availability is significantly affected by silt - 85%
3	Run –of- River type plants	NAPAF to be determined plant-wise, based on 10-day design energy data, moderated by past experience where available / relevant.

Note:

(i) A further allowance may be made by the Commission under special circumstances, eg. Abnormal silt problem or other operating conditions, and known plant limitations.

(ii) A further allowance of 5 % may be allowed for difficulties in the North East Region.

(iii) In case of new hydro electric project the developer shall have the option of approaching the Commission in advance for further above norms.

b) Auxiliary Consumption

No	Station Particular	Norm
1	Surface hydro electric power generating stations with rotating exciters mounted on the generator shaft	0.7% of energy generated
2	Surface hydro electric power generating stations with static excitation system	1.0% of energy generated
3	Underground hydro electric power generating stations with rotating exciters mounted on the generator shaft	0.9% of energy generated
4	Underground hydro electric power generating stations with static excitation system	1.2% of energy generated

c) Transformation Losses

From generation voltage to transmission voltage0.5% of energy generated.

5.3.2 Design Energy

The design energy of Lakroh is 11.01 MUs. The monthwise and station wise design energy is provided in the Formats HG3.

5.3.3 Computation of Energy Generation

5.3.3.1 The computation of hydro power generation requires Design Energy, Capacity Index, Details of Reservoir levels, Head details, Past Availability details, features of the hydro power plants in terms of type of plant, type of excitation etc which are provided in the table below:

Table 43: Features of Lakroh

Sr. No.	Particulars	Lakroh
1	Type of Station	
a	Surface/ Underground	SURFACE
b	Purely ROR/ Pondage/ Storage	ROR
c	Peaking/Non Peaking	NON PEAKING
d	No. of hours Peaking	NA
e	Overload Capacity (MW) & Period	NIL
2	Type of Excitation	
a	Rotating exciters on Generator	Nil
b	Static excitation	Static type

5.3.3.2 **Computation of NAPAF for Run of River type plants:** As per regulations, the NAPAF for Run of River type plants is to be determined based on 10-day design energy data, moderated by past experience wherever relevant. Lakroh is a Run of River Project, therefore, based on the past records and as per norm given in regulation, the NAPAF works out to **84%**. However considering further allowance of 5% for difficulties in north east region, the proposed NAPAF for Lakroh is **79%**.

Table 44: NAPAF of Lakroh

Name of Power Station	Units	Lakroh
Design Energy	MUs	11.01
Installed Capacity	MW	1.50
Generation @ 100%	MUs	13.14
NAPAF (%) as per workings	%	84%
NAPAF (%) with 5% allowance	%	79%

Net Generation for FY 2012-13 and FY 2013-14 are provided in the table below:

Table 45: Generation of Lakroh

Year	Gross Generation (MU)	Aux Cons (%)	Transformation Loss (%)	Aux Cons & Transformation Loss (MU)	Net Generation (MU)
FY 2013-14	6.09	1.00%	0.50%	0.09	6.00

5.3.3.3 MePGCL submits before the Hon'ble Commission to kindly approve the total net generation as provided in table above for Lakroh HEP.

5.4 Components of Tariff

The Regulation 52 provides for components of tariff which is extracted below for reference.

52. Components of tariff

(1) *Tariff for supply of electricity from a hydro power generating station shall comprise of two parts, namely, annual capacity charges and energy charges to be in the manner provided hereinafter.*

(2) *The fixed cost of a generating station eligible for recovery through annual capacity charges shall consist of:*

(a) *Return on equity as may be allowed*

(b) *Interest on Loan Capital;*

(c) *Operation and maintenance expenses;*

(d) *Interest on Working Capital;*

(e) *Depreciation as may be allowed by the Commission.*

(f) *Taxes on Income*

Accordingly, MePGCL computes and provides herewith various cost elements for determination of tariff.

5.5 Gross Fixed Assets

The provisional Gross Fixed Assets (GFA) of Lakroh is as under:

Table 46: GFA of Lakroh

Particulars	Lakroh (Rs.Crs)
Opening GFA as on 1.4.2012	-
Add: Additions to GFA during FY 2012-13	15.34
Less: Retirements to GFA during FY 2012-13	
Closing GFA as on 31.3.2013	15.34

5.5.1.1 MePGCL before the Hon'ble Commission to kindly approve the computed Gross Fixed Assets for FY 2013-14.

5.6 Determination of Return on Equity

The relevant regulations for determination of debt-equity ratio are extracted for reference as below:

51. Debt equity ratio

1) For the purpose of determination of tariff, debt-equity ratio in the case of a new generating station commencing commercial operations after the notification of these regulations shall be 70:30. Where equity employed is more than 30%, the amount of equity for the purpose of tariff shall be limited to 30% and the balance shall be treated as normative loan. Where actual equity employed is less than 30%, the actual equity employed shall be considered.

2) In the case of existing generating stations the debt equity ratio as per the Balance Sheet on the date of the Transfer notification will be the debt equity ratio for the first year of operation, subject to such modification as may be found necessary upon audit of the accounts if such Balance Sheet is not audited.

5.6.1 Lakroh HEP has been funded by Grant and Equity and no loan has been taken for funding this project. The financing pattern of Lakroh is shown in the table below:

Table 47: Financing Pattern of Leshka

Particulars	Rs Cr	%
Equity	3.59	23.4%
Grant	11.75	76.6%
Total	15.34	

5.6.2 The relevant regulations for computation of return on equity are extracted for reference as below:

53. Return on Equity

(1) Return on equity shall be computed on the equity base determined in accordance with regulation 51 and shall not exceed 14 %.

Provided that incase if projects commissioned after notification of these Regulations an additional return of 0.5 % shall be allowed if such projects are completed within the time line specified in CERC Tariff Regulations, 2009. (Refer Annuxure-1)

Provided that in case of projects commissioned after the notification of these regulations an additional return of 1.5 % shall be allowed if such projects are completed within the original sanctioned project cost without any time or cost overrun, whatsoever.

Provided that equity invested in a foreign currency may be allowed a return up to the prescribed limit in the same currency and the payment on this account shall be made in Indian Rupees based on the exchange rate prevailing on the due date of billing.

(2) The premium received while issuing share capital shall be treated as a part of equity provided the same is utilized for meeting capital expenditure.

(3) Internal resources created out of free reserves and utilized for meeting the capital expenditure shall also be treated as a part of equity.

(4) Foreign equity will also attract the same rate of return.

5.6.3 It is submitted that MePGCL has considered the return on equity (RoE) of 14%. The table below provides herewith the computation of RoE for FY 2013-14.

Table 48: Return on Equity for FY 2013-14

Particulars	Unit	Lakroh
Equity	Rs Crs	3.59
Return on Equity	%	14%
Return on Equity	Rs Crs	0.50

5.6.4 MePGCL submits before the Hon'ble Commission to kindly approve the RoE of Rs. **0.50** Crores for FY 2013-14 for Lakroh HEP.

5.7 Long Term Loans and Interest on Long Term Loans

The relevant regulations for computation of long term loans and interest thereon are extracted for reference as below:

54. Interest and finance charges on loan capital

(1) Interest and finance charges on loan capital shall be computed on the outstanding loans, duly taking into account the schedule of loan repayment, terms and conditions of loan agreements, bond or debenture and the lending rate prevailing therein.

Provided that the outstanding loan capital shall be adjusted to be consistent with the loan amount determined in accordance with Regulation 51.

(2) The interest and finance charges attributable to Capital Work in Progress shall be excluded.

(3) The generating company shall make every effort to swap loans as long as it results in net benefit to the beneficiaries. The costs associated with such swapping shall be borne by the beneficiaries.

(4) The changes to the loan terms and conditions shall be reflected from the date of such swapping and benefit shared between the beneficiaries and the generating company in a ratio as may be specified by the Commission as envisaged in Regulation 13.2.

(5) In case any moratorium period is availed of by the generating company, depreciation provided for in the tariff during the years of moratorium shall be treated as repayment during those years and interest on loan capital shall be calculated accordingly.

5.7.1 Since Lakroh Project is funded by Grants and Equity, no interest on Loan is claimed.

5.8 Depreciation

The relevant regulations for computation of deprecation are extracted for reference as below:

Regulation 57 - Depreciation

(a) The asset value for the purpose of depreciation shall be the capital cost of the assets as admitted by the Commission where the opening asset's value recorded in the Balance Sheet as per the Transfer Scheme Notification shall be deemed to have been approved, subject to such modifications as may be found necessary upon audit of the accounts, if such a Balance Sheet is not audited.

(f) Depreciation shall be calculated annually as per straight – line method at the rates specified in Appendix-III of CERC (Terms and Conditions of Tariff) of Regulations, 2009.

(g) The remaining depreciable value as on 31st March of the year closing after a period of 12 years from the date of commercial operation shall be spread over the balance useful life of the asset.

(i) Depreciation shall be chargeable from the first year of commercial operation. In case of commercial operation of the asset for part of the year, depreciation shall be charged on pro-rata basis.

5.8.1 It is submitted that the depreciation for Lakroh is computed considering estimated project cost and depreciation on balance useful life of asset. The table below

provides depreciation for Lakroh for FY 2013-14.

Table 49: Depreciation for FY 2013-14

Particulars	Unit	Unit	Rs. Crs
Project Cost of Lakroh	Rs.Crs	a	15.34
Less: Land & Site Development	Rs.Crs	b	0.14
Net Project Cost for Depreciation	Rs.Crs	c= a-b	15.20
Depreciable Asset Value @ 90%	Rs.Crs	d= c*90%	13.68
Depreciation Rate as per Appendix-III	%	e	5.28%
Depreciation value for FY 2013-14	Rs.Crs	f= e*d	0.72

5.8.1.1 MePGCL submits before the Hon'ble Commission to kindly approve the total depreciation of Rs. **0.72** Crores for FY 2013-14 for Lakroh HEP as summarized in above table.

5.9 Operation & Maintenance expenses (O & M expenses)

The relevant regulations for computation of O&M expenses are extracted for reference as below:

Regulation 55 - Operation & Maintenance expenses

(1) Operation and Maintenance Expenses (O & M Expenses) shall mean the total of all expenditure under the following heads: -

(a) Employee Cost

(b) Repairs and Maintenance

(c) Administration and General Expenses.

(7) In case of hydro generating stations declared under commercial operation on or after 01/04/2009, O&M expenses shall be fixed at 2% of the original project cost (excluding cost of rehabilitation and resettlement works) and shall be subject to annual escalation at 5.72% for the subsequent years.

Since Lakroh HEP will achieve CoD after 1.04.2009, its O & M expenses has been fixed as per Regulation 55 (7) at 2% of fixed cost and further escalated at 5.72% to arrive at O & M expenses for FY 2013-14

Table 50: O & M Expenses for FY 2013-14

Particulars	Rs.Crs
Project Cost	15.34
O&M Expenses for FY 2012-13 (2% of PC)	0.31
O&M Expenses for FY 2013-14 (5.72% escalation over prev. year)	0.32

5.9.1 MePGCL submits before the Hon'ble Commission to kindly approve the O&M expenses of Rs. **0.32** Crores for FY 2013-14.

5.10 Interest on Working Capital

5.10.1 The relevant regulations for computation of working capital and interest on working capital thereon are extracted for reference as below:

Regulation 56

(1) Working Capital shall cover:

- 1) Operation and Maintenance expenses for one month;*
- 2) Maintenance spares at the rate of 15% of operation and maintenance expenses specified in Regulation 55 above escalated at the rate of 6% per annum from the date of commercial operation and*
- 3) Receivables equivalent to two months of fixed cost.*

(2) Rate of interest on working capital shall be on normative basis and shall be equal to the short-term Prime Lending Rate of State Bank of India as on 1st April of the financial year for which the generating station files petition for annual Revenue Requirement and tariff proposal. The interest on working capital shall be calculated on normative basis notwithstanding that the generating company has not taken working capital loan from any outside agency.

5.10.2 The computation of working capital and interest on working capital for FY 2013-14 as per above regulation is provided in the table below:

Table 51: Interest on Working Capital for FY 2013-14

Particulars	Lakroh
O & M Expenses for 1 month	0.03
Maintenance Spares @15% of O&M plus escalated by 6%	0.052
Receivables @ 2 months of Fixed Cost	0.27
Total Working Capital requirement	0.35
Computation of working capital interest	
SBI PLR as on 1.4.2012 (%)	14.75%
Interest on Working Capital	0.05

5.10.3 MePGCL submits before the Hon'ble Commission to kindly approve Interest on

working capital of Rs. **0.05** Crores for FY 2013-14.

5.11 Tax on Income

5.11.1 The Regulation 58 of Tariff Regulations 2011 provide for claim of Income Tax as expenses. However MePGCL submits that since this being first independent filing for generation function and also due to fact that audited accounts of segregated are in process, income tax shall be claimed in subsequent filings in annual performance review/ true-up.

5.12 Connectivity and SLDC Charges

5.12.1 The Regulation 61 of Tariff Regulations 2011 provides for claim of SLDC & Connectivity charges as expenses. MePGCL submits as per information received from SLDC the SLDC charge applicable to Lakroh HEP is Rs **0.01** Crores. MePGCL submits before the Hon'ble Commission to kindly approve the same as part of ARR.

5.13 Summary of Annual Fixed Cost – Lakroh

5.13.1 The summary of the Annual Fixed Cost for the existing generating stations is provided in the table below:

Table 52: Annual Fixed Cost FY 2013-14 for Lakroh

Particulars	Amount Rs. Crs
Interest on Loan capital	-
Depreciation	0.72
O&M Expenses	0.32
Interest on working capital	0.05
Return on Equity	0.50
Income Tax	
SLDC Charge	0.01
Total Annual Fixed Cost	1.61
Less: Non Tariff Income	-
Net Annual Fixed Cost	1.61

5.13.2 The Hon'ble Commission is requested to approve the annual fixed cost of Rs. **1.61** Crores for Lakroh HEP for FY 2013-14.

6 Summary of ARR of MePGCL

Based on the detailed computation of ARR for existing projects, Leshka HEP and Lakroh HEP project wise summary of ARR is as under:

Table 53: Annual Fixed Cost FY 2013-14 Summary

Particulars	Old Assets	Sonapani	Leshka	Lakroh	Total
Interest on Loan capital	-	-	92.23	-	92.23
Depreciation	14.11	0.50	53.87	0.72	69.21
O&M Expenses	43.93	0.27	24.80	0.32	69.33
Interest on working capital	3.42	0.04	6.37	0.05	9.88
Return on Equity	12.77	0.46	44.80	0.50	58.53
Income Tax	-	-	-	-	-
SLDC Charge	1.19	0.01	0.79	0.01	2.00
Total Annual Fixed Cost	75.41	1.28	222.86	1.61	301.16
Less: Non Tariff Income	0.05	-	-	-	0.05
Net Annual Fixed Cost	75.36	1.28	222.86	1.61	301.11

7 Computation of Capacity Charge and Energy Charge

MePGCL submits that based on the Annual fixed Cost approved by Hon'ble Commission it will calculate the capacity charge and energy charge based on following provisions:

Regulation 59 – Computation and payment of Capacity Charge and energy charge for hydro generating stations

(A) Capacity Charges:

(1) The fixed cost of a hydro generating station shall be computed on annual basis, based on norms specified under these regulations, and recovered on monthly basis under capacity charge (inclusive of incentive) and energy charge, which shall be payable by the beneficiaries in proportion to their respective allocation in the saleable capacity of the generating station, that is to say, in the capacity excluding the free power to the home State:

Provided that during the period between the date of commercial operation of the first unit of the generating station and the date of commercial operation of the generating station, the annual fixed cost shall provisionally be worked out based on the latest estimate of the completion cost for the generating station, for the purpose of determining the capacity charge and energy charge payment during such period.

(2) The capacity charge (inclusive of incentive) payable to a hydro generating station for a calendar month shall be

$$= AFC \times 0.5 \times NDM / NDY \times (PAFM / NAPAF) \text{ (in Rupees)}$$

Where,

AFC = Annual fixed cost specified for the year, in Rupees.

NAPAF= Normative plant availability factor in percentage

NDM = Number of days in the month

NDY = Number of days in the year

PAFM = Plant availability factor achieved during the month, in percentage

(3) The PAFM shall be computed in accordance with the following formula:

$$NPAFM = 10000 \times \sum_{i=1} DC_i / \{ N \times IC \times (100 - AUX) \} \%$$

Where,

AUX = Normative auxiliary energy consumption in percentage

DC_i = Declared capacity (in ex-bus MW) for the ith day of the Month which the station can deliver for at least three (3) hours, as certified by the nodal load dispatch centre after the day is over.

IC = Installed capacity (in MW) of the complete generating station

N = Number of days in the month

(B) Energy Charges:

(1) The energy charge shall be payable by every beneficiary for the total energy scheduled to be supplied to the beneficiary, excluding free energy, if any, during the calendar month, on ex power plant basis, at the computed energy charge rate. Total Energy charge payable to the generating company for a month shall be :

= (Energy charge rate in Rs. / kWh) x {Scheduled energy (ex-bus) for the month in kWh} x (100 – FEHS) / 100.

(2) Energy charge rate (ECR) in Rupees per kWh on ex-power plant basis, for a hydro generating station, shall be determined up to three decimal places based on the following formula, subject to the provisions of clause (4):

$$ECR = AFC \times 0.5 \times 10 / \{ DE \times (100 - AUX) \times (100 - FEHS) \}$$

Where,

DE = Annual design energy specified for the hydro generating station, In MWh, subject to the provision in clause (6) below.

FEHS = Free energy for home State as fixed from time to time, by competent authority.

(3) In case actual total energy generated by a hydro generating station during a year is less than the design energy for reasons beyond the control of the generating company, the following treatment shall be applied on a rolling basis:

(i) in case the energy shortfall occurs within ten years from the date of commercial operation of a generating station, the ECR for the year following the year of energy shortfall shall be computed based on the formula specified in clause (2) with the modification that the DE for the year shall be considered as equal to the actual energy generated during the year of the shortfall, till the energy charge shortfall of the previous year has been made up, after which normal ECR shall be applicable;

(ii) in case the energy shortfall occurs after ten years from the date of commercial operation of a generating station, the following shall apply:

Suppose the specified annual design energy for the station is DE MWh, and the actual energy generated during the concerned (first) and the following (second) financial years is A1 and A2 MWh respectively, A1 being less than DE. Then, the design energy to be considered in the formula in clause (5) of this Regulation for calculating the ECR for the third financial year shall be moderated as $(A1 + A2 - DE)$ MWh, subject to a maximum of DE MWh and a minimum of A1 MWh.

(iii) Actual energy generated (e.g. A1, A2) shall be arrived at by multiplying the net metered energy sent out from the station by $100 / (100 - AUX)$.

(4) In case the energy charge rate (ECR) for a hydro generating station, as computed in clause (5) above, exceeds eighty paise per kWh, and the actual saleable energy in a year exceeds $\{ DE \times (100 - AUX) \times (100 - FEHS) / 10000\}$ MWh, the Energy charge for the energy in excess of the above shall be billed at eighty paise per kWh only:

Provided that in a year following a year in which total energy generated was less than the design energy for reasons beyond the control of the generating company, the energy charge rate shall be reduced to eighty paise per kWh after the energy charge shortfall of the previous year has been made up.

(6) The concerned Load Despatch Centre shall finalise the schedules for the hydro generating stations, in consultation with the beneficiaries, for optimal utilization of all the energy declared to be available, which shall be scheduled for all beneficiaries in proportion to their respective allocations in the generating station.

Name of the Hydro Generating Station: UMTRU

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	FY 2011-12 (ACTUAL)	FY 2012-13 (ESTIMATED)	FY 2013-14 (PROJECTED)
1	Installed Capacity	MW	11.20	11.20	11.20
2	Free Power to Home State	%	NIL	NIL	NIL
3	Date of Commercial Operation	-	-	-	-
	Unit – I	-	MAY'57	MAY'57	MAY'57
	Unit – II	-	MAY'57	MAY'57	MAY'57
	Unit – III	-	MAY'57	MAY'57	MAY'57
	Unit - IV	-	12-Jul-68	12-Jul-68	12-Jul-68
4	Type of Station	-	-	-	-
	Surface/Underground	-	SURFACE	SURFACE	SURFACE
	Purely ROR/Pondage/Storage	-	ROR	ROR	ROR
	Peaking/Non Peaking	-	NON PEAKING	NON PEAKING	NON PEAKING
	No. of hours Peaking	-	NA	NA	NA
	Overload Capacity (MW) & period	-	NIL	NIL	NIL
5	Type of Excitation	-	-	-	-
	Rotating exciters on Generator	-	ROTATING EXCITERS ON GENERATOR	ROTATING EXCITERS ON GENERATOR	ROTATING EXCITERS ON GENERATOR
	Static excitation	-	NA	NA	NA
6	Design Energy (Annual)	Gwh	38.04	82.30	82.30
7	Auxiliary consumption including Transformation losses	%	0.26%	1.20%	1.20%
8	Normative Plant Availability Factor (NAPAF)	%	80%	80%	80%
9.1	Maintenance spares for WC	Rs. Lakh	NA	NA	NA
9.2	Receivable for WC	Rs. Lakh	NA	NA	NA
9.3	Base rate on return on equity	%	14%	14%	14%
9.4	Tax rate +2	%	NA	NA	NA
9.5	Prime lending rate of SBI as on 01.04.2012	%	14.75%	14.75%	14.75%

Name of the Hydro Generating Station: Umiam Stage-I

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	FY 2011-12 (ACTUAL)	FY 2012-13 (ESTIMATED)	FY 2013-14 (PROJECTED)
1	Installed Capacity	MW	36	36	36
2	Free Power to Home State	%	N.A	N.A	N.A
3	Date of Commercial Operation	-	-	-	-
	Unit – I	-	21-Feb-65	21-Feb-65	21-Feb-65
	Unit – II	-	16-Mar-65	16-Mar-65	16-Mar-65
	Unit – III	-	9-Jun-65	9-Jun-65	9-Jun-65
	Unit - IV	-	9-Nov-65	9-Nov-65	9-Nov-65
4	Type of Station	-	-	-	-
	Surface/Underground	-	SURFACE	SURFACE	SURFACE
	Purely ROR/Pondage/Storage	-	STORAGE	STORAGE	STORAGE
	Peaking/Non Peaking	-	NON PEAKING	NON PEAKING	NON PEAKING
	No. of hours Peaking	-	NA	NA	NA
	Overload Capacity (MW) & period	-	NIL	NIL	NIL
5	Type of Excitation	-	-	-	-
	Rotating exciters on Generator	-	Rotating exciters on Generator	Rotating exciters on Generator	Rotating exciters on Generator
	Static excitation	-	N.A	N.A	N.A
6	Design Energy (Annual)	Gwh	108.90	60.70	60.70
7	Auxiliary consumption including Transformation losses	%	55%	1.20%	1.20%
8	Normative Plant Availability Factor (NAPAF)	%	60%	60%	60%
9.1	Maintenance spares for WC	Rs. Lakh	NA	NA	NA
9.2	Receivable for WC	Rs. Lakh	NA	NA	NA
9.3	Base rate on return on equity	%	14%	14%	14%
9.4	Tax rate +2	%	NA	NA	NA
9.5	Prime lending rate of SBI as on 01.04.2012	%	14.75%	14.75%	14.75%

Name of the Hydro Generating Station: Umiam Stage-II

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	FY 2011-12 (ACTUAL)	FY 2012-13 (ESTIMATED)	FY 2013-14 (PROJECTED)
1	Installed Capacity	MW	18	20	20
2	Free Power to Home State	%	NIL	NIL	NIL
3	Date of Commercial Operation	-	-	-	-
	Unit – I	-	22-Jul-70	22-Jul-70	22-Jul-70
	Unit – II	-	24-Jul-70	24-Jul-70	24-Jul-70
4	Type of Station	-	-	-	-
	Surface/Underground	-	SURFACE	SURFACE	SURFACE
	Purely ROR/Pondage/Storage	-	POWER CHANNEL (PONDAGE)	POWER CHANNEL (PONDAGE)	POWER CHANNEL (PONDAGE)
	Peaking/Non Peaking	-	NON PEAKING	NON PEAKING	NON PEAKING
	No. of hours Peaking	-			
	Overload Capacity (MW) & period	-	NIL	NIL	NIL
5	Type of Excitation	-	-	-	-
	Rotating exciters on Generator	-	ROTATING EXCITERS ON GENERATOR	ROTATING EXCITERS ON GENERATOR	ROTATING EXCITERS ON GENERATOR
	Static excitation	-	NA	NA	NA
6	Design Energy (Annual)	Gwh	12.89	29.50	29.50
7	Auxiliary consumption including Transformation losses	%	0.54%	1.20%	1.20%
8	Normative Plant Availability Factor (NAPAF)	%	63%	63%	63%
9.1	Maintenance spares for WC	Rs. Lakh	NA	NA	NA
9.2	Receivable for WC	Rs. Lakh	NA	NA	NA
9.3	Base rate on return on equity	%	14%	14%	14%
9.4	Tax rate +2	%	NA	NA	NA
9.5	Prime lending rate of SBI as on 01.04.2012	%	14.75%	14.75%	14.75%

Name of the Hydro Generating Station: Umiam Stage-III

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	FY 2011-12 (ACTUAL)	FY 2012-13 (ESTIMATED)	FY 2013-14 (PROJECTED)
1	Installed Capacity	MW	60	60	60
2	Free Power to Home State	%	NIL	NIL	NIL
3	Date of Commercial Operation	-	-	-	-
	Unit – I	-	6-Jan-79	6-Jan-79	6-Jan-79
	Unit – II	-	30-Mar-79	30-Mar-79	30-Mar-79
4	Type of Station	-	-	-	-
	Surface/Underground	-	SURFACE	SURFACE	SURFACE
	Purely ROR/Pondage/Storage	-	PONDAGE	PONDAGE	PONDAGE
	Peaking/Non Peaking	-	NON PEAKING	NON PEAKING	NON PEAKING
	No. of hours Peaking	-	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
	Overload Capacity (MW) & period	-	NIL	NIL	NIL
5	Type of Excitation	-	-	-	-
	Rotating exciters on Generator	-	Rotating exciters on Generator	Rotating exciters on Generator	Rotating exciters on Generator
	Static excitation	-	NA	NA	NA
6	Design Energy (Annual)	Gwh	127.44	115.30	115.30
7	Auxiliary consumption including Transformation losses	%	0.24%	1.20%	1.20%
8	Normative Plant Availability Factor (NAPAF)	%	64%	64%	64%
9.1	Maintenance spares for WC	Rs. Lakh	NA	NA	NA
9.2	Receivable for WC	Rs. Lakh	NA	NA	NA
9.3	Base rate on return on equity	%	14%	14%	14%
9.4	Tax rate+2	%	NA	NA	NA
9.5	Prime lending rate of SBI as on 01.04.2012	%	14.75%	14.75%	14.75%

Name of the Hydro Generating Station: Umiam Stage-IV

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	FY 2011-12 (ACTUAL)	FY 2012-13 (ESTIMATED)	FY 2013-14 (PROJECTED)
1	Installed Capacity	MW	60	60	60
2	Free Power to Home State	%	NIL	NIL	NIL
3	Date of Commercial Operation	-	-	-	-
	Unit – I	-	16-Sep-92	16-Sep-92	16-Sep-92
	Unit – II	-	11-Aug-92	11-Aug-92	11-Aug-92
4	Type of Station	-	-	-	-
	Surface/Underground	-	SURFACE	SURFACE	SURFACE
	Purely ROR/Pondage/Storage	-	PONDAGE	PONDAGE	PONDAGE
	Peaking/Non Peaking	-	NON PEAKING	NON PEAKING	NON PEAKING
	No. of hours Peaking	-	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
	Overload Capacity (MW) & period	-	NIL	NIL	NIL
5	Type of Excitation	-	-	-	-
	Rotating exciters on Generator	-	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
	Static excitation	-	STATIC EXCITATION	STATIC EXCITATION	STATIC EXCITATION
6	Design Energy (Annual)	Gwh	203.82	129.50	129.50
7	Auxiliary consumption including Transformation losses	%	0.14%	1.50%	1.50%
8	Normative Plant Availability Factor (NAPAF)	%	62%	62%	62%
9.1	Maintenance spares for WC	Rs. Lakh	NA	NA	NA
9.2	Receivable for WC	Rs. Lakh	NA	NA	NA
9.3	Base rate on return on equity	%	14%	14%	14%
9.4	Tax rate+2	%	NA	NA	NA
9.5	Prime lending rate of SBI as on 01.04.2012	%	14.75%	14.75%	14.75%

Name of the Hydro Generating Station: Sonapani

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	FY 2011-12 (ACTUAL)	FY 2012-13 (ESTIMATED)	FY 2013-14 (PROJECTED)
1	Installed Capacity	MW	1.50	1.50	1.50
2	Free Power to Home State	%	NIL	NIL	NIL
3	Date of Commercial Operation	-	-	-	-
	Unit – I	-	27-Oct-09	27-Oct-09	27-Oct-09
4	Type of Station	-	-	-	-
	Surface/Underground	-	SURFACE	SURFACE	SURFACE
	Purely ROR/Pondage/Storage	-	ROR	ROR	ROR
	Peaking/Non Peaking	-	NON PEAKING	NON PEAKING	NON PEAKING
	No. of hours Peaking	-	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
	Overload Capacity (MW) & period	-	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
	Static excitation	-	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
6	Design Energy (Annual)	Gwh	6.03	6.43	6.43
7	Auxiliary consumption including Transformation losses	%	0.22%	1.20%	1.20%
8	Normative Plant Availability Factor (NAPAF)	%	45%	45%	45%
9.1	Maintenance spares for WC	Rs. Lakh	NA	NA	NA
9.2	Receivable for WC	Rs. Lakh	NA	NA	NA
9.3	Base rate on return on equity	%	14%	14%	14%
9.4	Tax rate	%	NA	NA	NA
9.5	Prime lending rate of SBI as on 01.04.2012	%	14.75%	14.75%	14.75%

Name of the Hydro Generating Station: Myndtu Leshka

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	FY 2011-12 (ACTUAL)	FY 2012-13 (ESTIMATED)	FY 2013-14 (PROJECTED)
1	Installed Capacity	MW	126.00	126.00	126.00
2	Free Power to Home State	%	N.A	N.A	N.A
3	Date of Commercial Operation	-	-	-	-
	Unit – I	-	1-Apr-12	1-Apr-12	1-Apr-12
	Unit – II	-	1-Apr-12	1-Apr-12	1-Apr-12
	Unit – III	-	Dec'12	Dec'12	Dec'12
4	Type of Station	-			
	Surface/Underground	-	Surface	Surface	Surface
	Purely ROR/Pondage/Storage	-	ROR	ROR	ROR
	Peaking/Non Peaking	-	Non Peaking	Non Peaking	Non Peaking
	No. of hours Peaking	-	N.A	N.A	N.A
	Overload Capacity (MW) & period	-	-	-	-
5	Type of Excitation	-	-	-	-
	Rotating exciters on Generator	-	-	-	-
	Static excitation	-	Static Type	Static Type	Static Type
6	Design Energy (Annual)	Gwh	21.39	235.81	486.23
7	Auxiliary consumption including Transformation losses	%	0.14%	1.50%	1.50%
8	Normative Plant Availability Factor (NAPAF)	%	39%	39%	39%
9.1	Maintenance spares for WC	Rs. Lakh	NA	NA	NA
9.2	Receivable for WC	Rs. Lakh	NA	NA	NA
9.3	Base rate on return on equity	%	14%	14%	14%
9.4	Tax rate	%	NA	NA	NA
9.5	Prime lending rate of SBI as on 01.04.2012	%	14.75%	14.75%	14.75%

Name of the Hydro Generating Station: Lakroh

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	FY 2011-12 (ACTUAL)	FY 2012-13 (ESTIMATED)	FY 2013-14 (PROJECTED)
1	Installed Capacity	MW	1.5	1.5	1.5
2	Free Power to Home State	%	N.A	N.A	N.A
3	Date of Commercial Operation	-	-	-	-
	Unit – I	-	1-Jan-13	1-Jan-13	1-Jan-13
4	Type of Station	-	-	-	-
	Surface/Underground	-	Surface	Surface	Surface
	Purely ROR/Pondage/Storage	-	ROR	ROR	ROR
	Peaking/Non Peaking	-	Non Peaking	Non Peaking	Non Peaking
	No. of hours Peaking	-	N.A	N.A	N.A
	Overload Capacity (MW) 7& period	-	-	-	-
5	Type of Excitation	-	-	-	-
	Rotating exciters on Generator	-	-	-	-
	Static excitation	-	Static Type	Static Type	Static Type
6	Design Energy (Annual)	Gwh	NIL	2.17	11.01
7	Auxiliary consumption including Transformation losses	%	NIL	1.50%	1.50%
8	Normative Plant Availability Factor (NAPAF)	%	NA	79%	79%
9.1	Maintenance spares for WC	Rs. Lakh	NA	NA	NA
9.2	Receivable for WC	Rs. Lakh	NA	NA	NA
9.3	Base rate on return on equity	%	14%	14%	14%
9.4	Tax rate	%	NA	NA	NA
9.5	Prime lending rate of SBI as on 01.04.2012	%	14.75%	14.75%	14.75%

Format-HG2

SALIENT FEATURES OF HYDROELECTRIC PROJECT**Name of the Hydro Generating Station: UMTRU**

1. Location	
State /Distt.	Meghalaya State/ Ribhoi District
River	Umtru River and Tail Water of Umiam – Umtru Stage-IV HEP
2. Diversion Tunnel	
	Diversion Sluice
Size, Shape	1.8 m x 2.44 m, Rectangular
Length	29.70m
3. Dam	
Type	Masonry Weir
Maximum dam height	23.8 m
4. Spillway	
Type	Ogee - Ungated
Crest level of Spillway	123.32 m
5. Reservoir	
Full Reservoir Level (FRL)	123.32 m
Minimum Draw Down Level(MDDL)	118.87 m
Live Storage (MCM)	Not available due to high siltation
6. De-silting Arrangement	
Type	Scouring Sluice
Number and Size	1 No. 1.8 m x 2.4 m, Rectangular
Particle size to be removed (mm)	N.A
7. Head Race Tunnel	
Size and Type	2.97 m Dia, Horse shoe.
Length	1298.46 m
Design Discharge (Cumecs)	25 Cumecs
8. Surge Shaft	
Type	Circular
Diameter	9.75 m
Height	35.40 m
9. Penstock/ Pressure Shafts	
Type	Steel Liner, Circular
Diameter & Length	2.44 m, 105.8 m breaking into 4 lines of 1.22 m pipes.
10. Power House	
Type	Surface
Installed Capacity (No of Units x MW)	4 x 2.8 MW
Peaking Capacity during lean period	N.A
Type of Turbine	Vertical Francis Turbine
Rated Head (M)	53.34 m
Rated Discharge (Cumecs)	5.95 Cumecs
11. Tail Race Tunnel	
Diameter, Shape	Rectangular Channel
Length	7.6 m
Minimum tail water level	62.96 m
12. Switch yard	
Type of Switch gear	Outdoor
No. Of generator bays	4
No. Of Bus Coupler bays	
No. Of line Bays	10

Format-HG2

SALIENT FEATURES OF HYDROELECTRIC PROJECT**Name of the Hydro Generating Station: Umiam Stage-I**

1. Location	
State /Distt.	Sumer Village, Ri-Bhoi District, Meghalaya State.
River	Umiam River
2. Diversion Tunnel	
Size, Shape Length	N.A
3. Dam	
Type	Concrete Gravity
Maximum dam height	73 m
4. Spillway	
Type	Ogee – gated 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 Mm ³
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 & 618.70 m (Combine length) each.
10. Power House	
Type	Surface
Installed Capacity (No of Units x MW)	4 x 9 MW
Peaking Capacity during lean period	N.A
Type of Turbine	Vertical Francis
Rated Head (M)	145 m
Rated Discharge (Cumecs)	8.27 Cumecs
11. Tail Race Tunnel	
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	8

Format-HG2

SALIENT FEATURES OF HYDROELECTRIC PROJECT**Name of the Hydro Generating Station: Umiam Stage-II**

1. Location	
State /Distt.	Meghalaya State/ Ribhoi District
River	Umiam River – Tail water of Umiam Stage-I HEP
2. Diversion Tunnel	
Size, Shape Length	N.A
3. Dam	
Type Maximum dam height	N.A
4. Spillway	
Type Crest level of Spillway	N.A
5. Reservoir	
Forebay: Size: 76.2M x 34 M x 9.75 M	
Full Reservoir Level (FRL)	804.06 M
Minimum Draw Down Level(MDDL)	800.85 M
Live Storage (MCM)	0.0083 Mm3
6. De-silting Arrangement	
Type Number and Size Particle size to be removed (mm)	N.A
7. Head Race Tunnel	
Size and Type	3.05m Dia. D-type section
Length	1869 m + 1113 m Open Canal
Design Discharge (Cumecs)	28.12 Cumecs
8. Surge Shaft	
Type Diameter Height	N.A
9. Penstock/ Pressure Shafts	
Type	Steel Liner
Diameter & Length	Diameter =2.74 m, Length = 333 m
10. Power House	
Type	Surface
Installed Capacity (No of Units x MW)	2x10 MW
Peaking Capacity during lean period	N.A
Type of Turbine	Vertical Francis
Rated Head (M)	77.67 m
Rated Discharge (Cumecs)	15.47 Cumecs
11. Tail Race Tunnel	
Diameter, Shape	Open Channel
Length	19.44M
Minimum tail water level	722.376M
12. Switch yard	
Type of Switch gear	Out door
No. Of generator bays	2
No. Of Bus Coupler bays	
No. Of line Bays	1

SALIENT FEATURES OF HYDROELECTRIC PROJECT**Name of the Hydro Generating Station: Umiam Stage-III**

1. Location		
State /Distt.	Meghalaya, Ri-Bhoi District, 45 Km from Shillong	
River	Tail water of Umiam Stage – II PH & Umtru river.	
2. Diversion Tunnel		
Link Tunnel between Kyrdemkulai pondage and Nongmahir Forebay.		
Size, Shape	Circular – 3.0 m Dia.	
Length	2840 m	
3. Dam		
	Kyrdemkulai pondage	Nongmahir Forebay.
Type	Concrete Gravity	Earth Dam
Maximum dam height	27.50 M	47.25 m
4. Spillway		
Kyrdemkulai pondage Nongmahir Forebay.		
Type	Ogee – gated control	Ogee – Ungated
Crest level of Spillway	672.05 m	672.05 m
5. Reservoir		
	Kyrdemkulai pondage	Nongmahir Forebay.
Full Reservoir Level (FRL)	679.7 M	672.05 m
Minimum Draw Down Level(MDDL)	672.05 M	669.80 m (2197 ft)
Live Storage (MCM)	2.78 Mm3	1.54 Mm3
6. De-silting Arrangement		
Type	N.A	
Number and Size		
Particle size to be removed (mm)		
7. Head Race Tunnel		
Size and Type	3.96 m Dia, Circular	
Length	601.50 M	
Design Discharge (Cumecs)	51.00 Cumecs	
8. Surge Shaft		
Type	Circular	
Diameter	7.30 M	
Height	55.15 m Depth	
9. Penstock/ Pressure Shafts		
Type	Steel Liner	
Diameter & Length	2.59 m, 2 Nos of 472.66 m (combine length) each.	
10. Power House		
Type	Surface	
Installed Capacity (No of Units x MW)	2 X 30 MW	
Peaking Capacity during lean period	N.A	
Type of Turbine	Vertical Francis	
Rated Head (M)	150 m	
Rated Discharge (Cumecs)	23.5 Cumecs	
11. Tail Race Tunnel		
Diameter, Shape	Trapezoidal	
Length	50 m	
Minimum tail water level	504.5 m	
12. Switch yard		
Type of Switch gear	Outdoor	
No. Of generator bays	2	
No. Of Bus Coupler bays	1	
No. Of line Bays	7	

Format-HG2

SALIENT FEATURES OF HYDROELECTRIC PROJECT**Name of the Hydro Generating Station: Umiam Stage-IV**

State /Distt.	Meghalaya, Ri-Bhoi District, 55 Km from Shillong.
River	Tail water of Stage – III PH & own catchment.
2. Diversion Tunnel	N.A
Size, Shape	
Length	
3. Dam	
Type	Concrete Gravity
Maximum dam height	43.00 M
4. Spillway	
Type	Ogee- gated Controlled
Crest level of Spillway	491M
5. Reservoir	
Full Reservoir Level (FRL)	503.00 M
Minimum Draw Down Level(MDDL)	496.00 M
Live Storage (MCM)	0.80 Mm3
6. De-silting Arrangement	N.A
Type	
Number and Size	
Particle size to be removed (mm)	
7. Head Race Tunnel	
Size and Type	Circular 3.96 m Dia.
Length	6128.38 M
Design Discharge (Cumecs)	51 Cumecs
8. Surge Shaft	
Type	Orifice Type
Diameter	10.00 M
Height	73.06 M
9. Penstock/ Pressure Shafts	Steel Liner
Type	
Diameter & Length	2.59 M, 2 Nos of 540.67 m & 546.01 m (combine length)
10. Power House	
Type	Surface
Installed Capacity (No of Units x MW)	(2X30) MW
Peaking Capacity during lean period	N.A
Type of Turbine	Vertical Francis
Rated Head (M)	140.00 M
Rated Discharge (Cumecs)	25.04 Cumecs
11. Tail Race Tunnel	
Diameter, Shape	Channel
Length	50 m
Minimum tail water level	338.9 m
12. Switch yard	
Type of Switch gear	Outdoor
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**

1. Location		
State /Distt.	Meghalaya, East Khasi Hills District Lumkshaid Shillong.	
River	Umshyrpi &Wahumkhrah	
2. Diversion Tunnel		
Size, Shape	N.A	
Length		
3. Dam/Weir		
	Wahumkhrah	Umshyrpi
Type	RCC Counterfort	Composite (Masonry &RCC)
Maximum dam height	3.50 m	4.45 m
4. Spillway		
Type	Ogee Spillway	Ogee Spillway
Crest level of Spillway	1399.095 m	1413.55 m
5. Reservoir		
	Forebay, Sise – 41 m x 9 m x 3.35 m	
Full Reservoir Level (FRL)	1396.295 m	
Minimum Draw Down Level(MDDL)	1395.045 m	
Live Storage (MCM)	395 cum	
6. De-silting Arrangement		
	Wahumkhrah	Umshyrpi
Type	RCC	RCC
Number and Size	11.00 m x 2.20 m x 1.75 m	11.00 m x 2.20 m x 1.75 m
Particle size to be removed (mm)	0.25 mm and above	0.25 mm and above
7. Head Race Tunnel		
	Wahumkhrah	Umshyrpi
Size and Type	1.00m x 1.00 m, Open Channel	1.00m x 1.00 m, Open Channel
Length	632.0 m	1128.50 m
Design Discharge (Cumecs)	0.54 cumecs	0.44 cumecs
8. Surge Shaft		
	N.A	
Type		
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	N.A	
Type of Turbine	Horizontal Pelton Wheel	
Rated Head (M)	172.42m	
Rated Discharge (Cumecs)	0.98 Cumecs	
11. Tail Race Tunnel		
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		
No. Of line Bays		

Format-HG2

SALIENT FEATURES OF HYDROELECTRIC PROJECT**Name of the Hydro Generating Station: Myntdu Leshka**

1. Location	
State /Distt.	Meghalaya State, Jaintia Hills District
River	Myntdu River.
2. Diversion Tunnel	
Construction Sluice	
Size, Shape	3.0 m x3,0 m, L = 70.80 m
Length	L = 70.80 m
3. Dam	
Type	Concrete Gravity
Maximum dam height	63.00 m
4. Spillway	
Type	Sluice
Crest level of Spillway	587.50 m
5. Reservoir	
Full Reservoir Level (FRL)	618.00 m
Minimum Draw Down Level(MDDL)	606.15 m
Live Storage (MCM)	7.00 MCM
6. De-silting Arrangement	
Type	N.A
Number and Size	
Particle size to be removed (mm)	
7. Head Race Tunnel	
Size and Type	3.40 m, Modified Horse Shoe
Length	3313.46 m
Design Discharge (Cumecs)	46.49 Cumecs
8. Surge Shaft	
Type	Restricted Orifice Surge Tank with Orifice. Diameter=1.8 m (with lower expansion gallery of Dia. 5.8 m, L = 80.00 m)
Diameter	8.80 m
Height	85.0 m
9. Penstock/ Pressure Shafts	
Type	HPT steel lined, 3.0 m Dia, L=314m
Diameter & Length	3 nos. Each 2.0 m Dia, 756.25 m
10. Power House	
Type	Surface
Installed Capacity (No of Units x MW)	3 x 42MW
Peaking Capacity during lean period	N.A
Type of Turbine	Vertical Francis
Rated Head (M)	300.30 m
Rated Discharge (Cumecs)	15.05 each Unit
11. Tail Race Tunnel	
Diameter, Shape	Trapezoidal
Length	60.0 m
Minimum tail water level	286.78 m
12. Switch yard	
Type of Switch gear	Outdoor
No. Of generator bays	3 Nos.
No. Of Bus Coupler bays	1 No.
No. Of line Bays	2 Nos.

Format-HG2

SALIENT FEATURES OF HYDROELECTRIC PROJECT**Name of the Hydro Generating Station: Lakroh**

1. Location	
State /Distt.	Meghalaya State, Jaintia Hills District
River	Lakroh River.
2. Diversion Tunnel	
	N.A
Size, Shape	
Length	
3. Dam/Weir	
Type	Composite (Masonry & Concrete)
Maximum dam height	4.90 m
4. Spillway	
Type	Ogee Free Spillway
Crest level of Spillway	250.00 m
5. Reservoir	
	23.00 m x 6.00 m x 3.15 m
Full Reservoir Level (FRL)	247.04 m
Minimum Draw Down Level(MDDL)	245.50 m
Live Storage (MCM)	212.52 M3
6. De-silting Arrangement	
	N.A
Type	
Number and Size	
Particle size to be removed (mm)	
7. Head Race Tunnel	
Size and Type	Open Channel: Rectangular, 1.25 m x 1.00 m.
Length	808.00 m
Design Discharge (Cumecs)	1.15 Cumecs
8. Surge Shaft	
	N.A
Type	
Diameter	
Height	
9. Penstock/ Pressure Shafts	
Type	1 no., Steel pipe
Diameter & Length	0.60 m Dia. & 340.00 m
10. Power House	
Type	Surface
Installed Capacity (No of Units x MW)	1 x 1.5 MW
Peaking Capacity during lean period	N.A
Type of Turbine	Horizontal Francis
Rated Head (M)	155.73 m
Rated Discharge (Cumecs)	1.15 cumec
11. Tail Race Tunnel	
Shape	Rectangular (1.25 m x 1.00 m)
Length	185.00 m
Minimum tail water level	76.167 m
12. Switch yard	
Type of Switch gear	Outdoor
No. Of generator bays	1Nos.
No. Of Bus Coupler bays	
No. Of line Bays	

Format - HG3

Name of the Hydro Generating Station: Umtru

FY 11-12 (Actuals)

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL	I	Nil	Shut Down
		II	Nil	Shut Down
		III	Nil	Shut Down
		IV	1.72	2.39
2	MAY	I	Nil	Shut Down
		II	0.40	0.54
		III	Nil	Shut Down
		IV	1.85	2.49
3	JUNE	I	Nil	Shut Down
		II	1.52	2.11
		III	Nil	Shut Down
		IV	1.82	2.53
4	JULY	I	Nil	Shut Down
		II	1.70	2.29
		III	Nil	Shut Down
		IV	1.96	2.63
5	AUGUST	I	Nil	Shut Down
		II	1.46	1.96
		III	Nil	Shut Down
		IV	1.96	2.63
6	SEPTEMBER	I	Nil	Shut Down
		II	1.69	2.35
		III	Nil	Shut Down
		IV	1.86	2.59
7	OCTOBER	I	Nil	Shut Down
		II	1.78	2.40
		III	Nil	ShutDown
		IV	1.89	2.54
8	NOVEMBER	I	Nil	Shut Down
		II	1.71	2.38
		III	Nil	Shut Down
		IV	1.83	2.54
9	DECEMBER	I	Nil	Shut Down
		II	1.78	2.39
		III	Nil	Shut Down
		IV	1.87	2.52
10	JANUARY	I	Nil	Shut Down
		II	1.79	2.41
		III	Nil	Shut Down
		IV	1.80	2.42
11	FEBRUARY	I	Nil	Shut Down
		II	1.60	2.30
		III	Nil	Shut Down
		IV	1.36	1.95
12	MARCH	I	Nil	Shut Down
		II	1.80	2.42
		III	Nil	Shut Down
		IV	0.89	1.19

Format - HG3

Name of the Hydro Generating Station: Umtru

FY 12-13 (Estimated)

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL	I	1.32	1.83
		II	1.32	1.83
		III	1.32	1.83
		IV	1.31	1.82
2	MAY	I	1.14	1.53
		II	1.14	1.53
		III	1.14	1.53
		IV	1.15	1.55
3	JUNE	I	2.02	2.81
		II	2.02	2.81
		III	2.01	2.79
		IV	2.01	2.79
4	JULY	I	2.08	2.80
		II	2.08	2.80
		III	2.08	2.80
		IV	2.09	2.81
5	AUGUST	I	2.08	2.80
		II	2.08	2.80
		III	2.08	2.80
		IV	2.09	2.81
6	SEPTEMBER	I	2.02	2.81
		II	2.02	2.81
		III	2.01	2.79
		IV	2.01	2.79
7	OCTOBER	I	2.08	2.80
		II	2.08	2.80
		III	2.08	2.80
		IV	2.09	2.81
8	NOVEMBER	I	2.02	2.81
		II	2.02	2.81
		III	2.01	2.79
		IV	2.01	2.79
9	DECEMBER	I	1.38	1.85
		II	1.38	1.85
		III	1.38	1.85
		IV	1.37	1.84
10	JANUARY	I	1.74	2.34
		II	1.74	2.34
		III	1.74	2.34
		IV	1.73	2.33
11	FEBRUARY	I	1.41	2.10
		II	1.41	2.10
		III	1.41	2.10
		IV	1.42	2.11
12	MARCH	I	1.30	1.75
		II	1.30	1.75
		III	1.30	1.75
		IV	1.30	1.75

Format - HG3

Name of the Hydro Generating Station: Umtru

FY 13-14 (Projected)

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL	I	1.32	1.83
		II	1.32	1.83
		III	1.32	1.83
		IV	1.31	1.82
2	MAY	I	1.14	1.53
		II	1.14	1.53
		III	1.14	1.53
		IV	1.15	1.55
3	JUNE	I	2.02	2.81
		II	2.02	2.81
		III	2.01	2.79
		IV	2.01	2.79
4	JULY	I	2.08	2.80
		II	2.08	2.80
		III	2.08	2.80
		IV	2.09	2.81
5	AUGUST	I	2.08	2.80
		II	2.08	2.80
		III	2.08	2.80
		IV	2.09	2.81
6	SEPTEMBER	I	2.02	2.81
		II	2.02	2.81
		III	2.01	2.79
		IV	2.01	2.79
7	OCTOBER	I	2.08	2.80
		II	2.08	2.80
		III	2.08	2.80
		IV	2.09	2.81
8	NOVEMBER	I	2.02	2.81
		II	2.02	2.81
		III	2.01	2.79
		IV	2.01	2.79
9	DECEMBER	I	1.38	1.85
		II	1.38	1.85
		III	1.38	1.85
		IV	1.37	1.84
10	JANUARY	I	1.74	2.34
		II	1.74	2.34
		III	1.74	2.34
		IV	1.73	2.33
11	FEBRUARY	I	1.41	2.10
		II	1.41	2.10
		III	1.41	2.10
		IV	1.42	2.11
12	MARCH	I	1.30	1.75
		II	1.30	1.75
		III	1.30	1.75
		IV	1.30	1.75

Format - HG3

Name of the Hydro Generating Station: Myndtu Leshka***FY 11-12 (Actuals)***

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL	I	Nil	Nil
		II	Nil	Nil
		III	Nil	Nil
2	MAY	I	Nil	Nil
		II	Nil	Nil
		III	Nil	Nil
3	JUNE	I	Nil	Nil
		II	Nil	Nil
		III	Nil	Nil
4	JULY	I	Nil	Nil
		II	Nil	Nil
		III	Nil	Nil
5	AUGUST	I	Nil	Nil
		II	Nil	Nil
		III	Nil	Nil
6	SEPTEMBER	I	Nil	Nil
		II	Nil	Nil
		III	Nil	Nil
7	OCTOBER	I	Nil	Nil
		II	Nil	Nil
		III	Nil	Nil
8	NOVEMBER	I	Nil	Nil
		II	Nil	Nil
		III	Nil	Nil
9	DECEMBER	I	7.32	9.84
		II	Nil	Nil
		III	Nil	Nil
10	JANUARY	I	6.21	8.35
		II	Nil	Nil
		III	Nil	Nil
11	FEBRUARY	I	4.17	5.99
		II	Nil	Nil
		III	Nil	Nil
12	MARCH	I	3.69	4.95
		II	Nil	Nil
		III	Nil	Nil

Format - HG3

Name of the Hydro Generating Station: Myndtu Leshka***FY 12-13 (Estimated)***

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL	I	13.79	19.15
		II	2.60	3.61
		III		
2	MAY	I	15.13	20.34
		II	8.40	11.29
		III		
3	JUNE	I	4.88	6.78
		II	13.36	18.55
		III		
4	JULY	I	Nil	Shut down
		II	27.63	37.14
		III		
5	AUGUST	I	Nil	Shut down
		II	29.69	39.90
		III		
6	SEPTEMBER	I	Nil	Shut down
		II	28.73	39.90
		III		
7	OCTOBER	I	17.00	22.85
		II	17.00	22.85
		III	0.96	1.29
8	NOVEMBER	I	8.35	11.60
		II	8.35	11.60
		III	1.11	1.54
9	DECEMBER	I	6.18	8.31
		II	6.18	8.31
		III	0.55	0.74
10	JANUARY	I	5.48	7.36
		II	5.48	7.36
		III	0.00	0.00
11	FEBRUARY	I	3.82	5.68
		II	3.82	5.68
		III	0.00	0.00
12	MARCH	I	3.68	4.94
		II	3.68	4.94
		III	0.00	0.00

Format - HG3

Name of the Hydro Generating Station: Myndtu Leshka***FY 13-14 (Projected)***

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL	I	13.48	18.72
		II	13.48	18.72
		III	0.68	0.94
2	MAY	I	11.55	15.52
		II	11.55	15.52
		III	0.83	1.12
3	JUNE	I	28.73	39.90
		II	28.73	39.90
		III	28.74	39.90
4	JULY	I	29.69	39.90
		II	29.69	39.90
		III	29.69	39.90
5	AUGUST	I	29.69	39.90
		II	29.69	39.90
		III	23.58	31.69
6	SEPTEMBER	I	28.73	39.90
		II	28.73	39.90
		III	27.40	38.06
7	OCTOBER	I	17.00	22.85
		II	17.00	22.85
		III	0.96	1.29
8	NOVEMBER	I	8.35	11.60
		II	8.35	11.60
		III	1.11	1.54
9	DECEMBER	I	6.18	8.31
		II	6.18	8.31
		III	0.55	0.74
10	JANUARY	I	5.48	7.36
		II	5.48	7.36
		III	0.00	0.00
11	FEBRUARY	I	3.82	5.68
		II	3.82	5.68
		III	0.00	0.00
12	MARCH	I	3.68	4.94
		II	3.68	4.94
		III	0.00	0.00

Format - HG3

Name of the Hydro Generating Station: Lakroh***FY 11-12 (Actuals)***

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	April	l	NA	NA
2	May	l	NA	NA
3	June	l	NA	NA
4	July	l	NA	NA
5	August	l	NA	NA
6	September	l	NA	NA
7	October	l	NA	NA
8	November	l	NA	NA
9	December	l	NA	NA
10	January	l	NA	NA
11	February	l	NA	NA
12	March	l	NA	NA

Format - HG3

Name of the Hydro Generating Station: Lakroh***FY 12-13 (Estimated)***

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	April	l	NIL	NIL
2	May	l	NIL	NIL
3	June	l	NIL	NIL
4	July	l	NIL	NIL
5	August	l	NIL	NIL
6	September	l	NIL	NIL
7	October	l	NIL	NIL
8	November	l	NIL	NIL
9	December	l	NIL	NIL
10	January	l	0.69	0.95
11	February	l	0.66	0.92
12	March	l	0.82	1.14

Format - HG3

Name of the Hydro Generating Station: Lakroh***FY 13-14 (Projected)***

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	April	l	0.69	0.95
2	May	l	0.66	0.92
3	June	l	0.82	1.14
4	July	l	0.90	1.25
5	August	l	1.01	1.40
6	September	l	1.01	1.40
7	October	l	1.01	1.40
8	November	l	1.01	1.40
9	December	l	1.01	1.40
10	January	l	1.01	1.40
11	February	l	0.97	1.35
12	March	l	0.88	1.22

Format - HG3

Name of the Hydro Generating Station: Sonapani***FY 11-12 (Actuals)***

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL		0.37	0.52
2	MAY		0.61	0.86
3	JUNE		0.75	1.05
4	JULY		0.75	1.05
5	AUGUST		0.75	1.05
6	SEPTEMBER		0.75	1.05
7	OCTOBER		0.75	1.05
8	NOVEMBER		0.61	0.84
9	DECEMBER		0.37	0.51
10	JANUARY		0.28	0.38
11	FEBRUARY		0.23	0.32
12	MARCH		0.21	0.30

Format - HG3

Name of the Hydro Generating Station: Sonapani***FY 12-13 (Estimated)***

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL		0.37	0.52
2	MAY		0.61	0.86
3	JUNE		0.75	1.05
4	JULY		0.75	1.05
5	AUGUST		0.75	1.05
6	SEPTEMBER		0.75	1.05
7	OCTOBER		0.75	1.05
8	NOVEMBER		0.61	0.84
9	DECEMBER		0.37	0.51
10	JANUARY		0.28	0.38
11	FEBRUARY		0.23	0.32
12	MARCH		0.21	0.30

Format - HG3

Name of the Hydro Generating Station: Sonapani***FY 13-14 (Projected)***

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL		0.35	0.49
2	MAY		0.59	0.79
3	JUNE		0.53	0.73
4	JULY		0.83	1.12
5	AUGUST		0.86	1.16
6	SEPTEMBER		0.42	0.59
7	OCTOBER		0.48	0.64
8	NOVEMBER		0.58	0.80
9	DECEMBER		0.43	0.58
10	JANUARY		0.34	0.45
11	FEBRUARY		0.31	0.44
12	MARCH		0.32	0.43

Format - HG4

Name of the Hydro Generating Station: Umiam Stage-I

FY 11-12 (Actuals)

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL	I	0.29	0.41
		II	2.71	3.76
		III	Nil	Shut down
		IV	3.34	4.64
2	MAY	I	0.97	1.31
		II	4.12	5.54
		III	Nil	Shut down
		IV	4.48	6.02
3	JUNE	I	2.03	2.81
		II	3.88	5.38
		III	Nil	Shut down
		IV	4.39	6.09
4	JULY	I	3.19	4.28
		II	4.78	6.42
		III	Nil	Shut down
		IV	5.19	6.97
5	AUGUST	I	4.35	5.84
		II	5.60	7.53
		III	Nil	Shut down
		IV	5.76	7.74
6	SEPTEMBER	I	2.21	3.07
		II	3.80	5.27
		III	Nil	Shut down
		IV	4.11	5.70
7	OCTOBER	I	3.31	4.45
		II	4.53	6.09
		III	Nil	Shut down
		IV	5.22	7.01
8	NOVEMBER	I	2.89	4.01
		II	4.22	5.86
		III	Nil	Shut down
		IV	1.33	1.84
9	DECEMBER	I	0.76	1.03
		II	2.79	3.75
		III	Nil	Shut down
		IV	3.59	4.83
10	JANUARY	I	0.59	0.79
		II	1.84	2.48
		III	Nil	Shut down
		IV	2.85	3.84
11	FEBRUARY	I	0.34	0.49
		II	1.93	2.77
		III	Nil	Shut down
		IV	3.30	4.74
12	MARCH	I	0.55	0.74
		II	1.97	2.65
		III	Nil	Shut down
		IV	1.71	2.30

Format - HG4

Name of the Hydro Generating Station: Umiam Stage-I

FY 12-13 (Estimated)

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL	I	1.47	2.04
		II	1.47	2.04
		III	1.47	2.04
		IV	1.48	2.06
2	MAY	I	1.44	1.94
		II	1.44	1.94
		III	1.44	1.94
		IV	1.44	1.94
3	JUNE	I	0.85	1.18
		II	0.85	1.18
		III	0.85	1.18
		IV	0.84	1.17
4	JULY	I	0.56	0.75
		II	0.56	0.75
		III	0.56	0.75
		IV	0.55	0.74
5	AUGUST	I	0.25	0.34
		II	0.25	0.34
		III	0.24	0.32
		IV	0.24	0.32
6	SEPTEMBER	I	0.90	1.25
		II	0.90	1.25
		III	0.90	1.25
		IV	0.90	1.25
7	OCTOBER	I	2.19	2.94
		II	2.19	2.94
		III	2.19	2.94
		IV	2.18	2.93
8	NOVEMBER	I	1.63	2.26
		II	1.63	2.26
		III	1.63	2.26
		IV	1.63	2.26
9	DECEMBER	I	1.74	2.34
		II	1.74	2.34
		III	1.74	2.34
		IV	1.74	2.34
10	JANUARY	I	1.36	1.83
		II	1.36	1.83
		III	1.36	1.83
		IV	1.37	1.84
11	FEBRUARY	I	1.26	1.88
		II	1.26	1.88
		III	1.26	1.88
		IV	1.27	1.89
12	MARCH	I	1.53	2.06
		II	1.53	2.06
		III	1.53	2.06
		IV	1.52	2.05

Format - HG4

Name of the Hydro Generating Station: Umiam Stage-I

FY 13-14 (Projected)

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL	I	1.47	2.04
		II	1.47	2.04
		III	1.47	2.04
		IV	1.48	2.06
2	MAY	I	1.44	1.94
		II	1.44	1.94
		III	1.44	1.94
		IV	1.44	1.94
3	JUNE	I	0.85	1.18
		II	0.85	1.18
		III	0.85	1.18
		IV	0.84	1.17
4	JULY	I	0.56	0.75
		II	0.56	0.75
		III	0.56	0.75
		IV	0.55	0.74
5	AUGUST	I	0.25	0.34
		II	0.25	0.34
		III	0.24	0.32
		IV	0.24	0.32
6	SEPTEMBER	I	0.90	1.25
		II	0.90	1.25
		III	0.90	1.25
		IV	0.90	1.25
7	OCTOBER	I	2.19	2.94
		II	2.19	2.94
		III	2.19	2.94
		IV	2.18	2.93
8	NOVEMBER	I	1.63	2.26
		II	1.63	2.26
		III	1.63	2.26
		IV	1.63	2.26
9	DECEMBER	I	1.74	2.34
		II	1.74	2.34
		III	1.74	2.34
		IV	1.74	2.34
10	JANUARY	I	1.36	1.83
		II	1.36	1.83
		III	1.36	1.83
		IV	1.37	1.84
11	FEBRUARY	I	1.26	1.88
		II	1.26	1.88
		III	1.26	1.88
		IV	1.27	1.89
12	MARCH	I	1.53	2.06
		II	1.53	2.06
		III	1.53	2.06
		IV	1.52	2.05

Format - HG4

FY 11-12 (Actuals)**Name of the Hydro Generating Station: Umiam Stage-II**

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL	I	0.92	1.28
		II	1.96	2.73
2	MAY	I	0.72	0.96
		II	2.41	3.24
3	JUNE	I	Nil	R & M
		II	Nil	R & M
4	JULY	I	Nil	R & M
		II	Nil	R & M
5	AUGUST	I	Nil	R & M
		II	Nil	R & M
6	SEPTEMBER	I	Nil	R & M
		II	Nil	R & M
7	OCTOBER	I	Nil	R & M
		II	Nil	R & M
8	NOVEMBER	I	Nil	R & M
		II	Nil	R & M
9	DECEMBER	I	0.16	0.22
		II	0.25	0.34
10	JANUARY	I	1.33	1.78
		II	0.18	0.24
11	FEBRUARY	I	1.71	2.46
		II	1.12	1.61
12	MARCH	I	0.74	1.00
		II	1.39	1.87

Format - HG4

FY 12-13 (Estimated)**Name of the Hydro Generating Station: Umiam Stage-II**

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL	I	1.46	2.03
		II	1.45	2.01
2	MAY	I	1.44	1.94
		II	1.44	1.94
3	JUNE	I	0.85	1.18
		II	0.86	1.19
4	JULY	I	0.55	0.74
		II	0.56	0.75
5	AUGUST	I	0.24	0.32
		II	0.24	0.32
6	SEPTEMBER	I	0.87	1.21
		II	0.86	1.19
7	OCTOBER	I	2.09	2.81
		II	2.08	2.80
8	NOVEMBER	I	1.56	2.17
		II	1.55	2.15
9	DECEMBER	I	1.66	2.23
		II	1.66	2.23
10	JANUARY	I	1.31	1.76
		II	1.31	1.76
11	FEBRUARY	I	1.22	1.82
		II	1.22	1.82
12	MARCH	I	1.50	2.02
		II	1.49	2.00

Format - HG4

FY 13-14 (Projected)**Name of the Hydro Generating Station: Umiam Stage-II**

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL	I	1.46	2.03
		II	1.45	2.01
2	MAY	I	1.44	1.94
		II	1.44	1.94
3	JUNE	I	0.85	1.18
		II	0.86	1.19
4	JULY	I	0.55	0.74
		II	0.56	0.75
5	AUGUST	I	0.24	0.32
		II	0.24	0.32
6	SEPTEMBER	I	0.87	1.21
		II	0.86	1.19
7	OCTOBER	I	2.09	2.81
		II	2.08	2.80
8	NOVEMBER	I	1.56	2.17
		II	1.55	2.15
9	DECEMBER	I	1.66	2.23
		II	1.66	2.23
10	JANUARY	I	1.31	1.76
		II	1.31	1.76
11	FEBRUARY	I	1.22	1.82
		II	1.22	1.82
12	MARCH	I	1.50	2.02
		II	1.49	2.00

Format - HG4

FY 11-12 (Actuals)**Name of the Hydro Generating Station: Umiam Stage-III**

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL	I	7.38	10.25
		II	0.26	0.36
2	MAY	I	4.26	5.72
		II	6.40	8.60
3	JUNE	I	5.77	8.01
		II	7.01	9.73
4	JULY	I	0.64	0.86
		II	9.98	13.41
5	AUGUST	I	8.09	10.88
		II	9.10	12.24
6	SEPTEMBER	I	3.56	4.95
		II	10.71	14.87
7	OCTOBER	I	3.43	4.61
		II	11.29	15.18
8	NOVEMBER	I	0.41	0.58
		II	10.77	14.96
9	DECEMBER	I	6.92	9.30
		II	2.18	2.93
10	JANUARY	I	6.23	8.37
		II	1.24	1.66
11	FEBRUARY	I	4.32	6.21
		II	2.14	3.08
12	MARCH	I	4.54	6.10
		II	0.82	1.10

Format - HG4

FY 12-13 (Estimated)**Name of the Hydro Generating Station: Umiam Stage-III**

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL	I	4.60	6.39
		II	4.59	6.38
2	MAY	I	4.65	6.25
		II	4.65	6.25
3	JUNE	I	4.73	6.57
		II	4.73	6.57
4	JULY	I	5.28	7.10
		II	5.28	7.10
5	AUGUST	I	5.59	7.51
		II	5.59	7.51
6	SEPTEMBER	I	5.32	7.39
		II	5.32	7.39
7	OCTOBER	I	4.87	6.55
		II	4.88	6.56
8	NOVEMBER	I	4.34	6.03
		II	4.34	6.03
9	DECEMBER	I	4.63	6.22
		II	4.63	6.22
10	JANUARY	I	4.65	6.25
		II	4.64	6.24
11	FEBRUARY	I	4.21	6.27
		II	4.21	6.27
12	MARCH	I	4.76	6.40
		II	4.76	6.40

Format - HG4

FY 13-14 (Projected)**Name of the Hydro Generating Station: Umiam Stage-III**

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL	I	4.60	6.39
		II	4.59	6.38
2	MAY	I	4.65	6.25
		II	4.65	6.25
3	JUNE	I	4.73	6.57
		II	4.73	6.57
4	JULY	I	5.28	7.10
		II	5.28	7.10
5	AUGUST	I	5.59	7.51
		II	5.59	7.51
6	SEPTEMBER	I	5.32	7.39
		II	5.32	7.39
7	OCTOBER	I	4.87	6.55
		II	4.88	6.56
8	NOVEMBER	I	4.34	6.03
		II	4.34	6.03
9	DECEMBER	I	4.63	6.22
		II	4.63	6.22
10	JANUARY	I	4.65	6.25
		II	4.64	6.24
11	FEBRUARY	I	4.21	6.27
		II	4.21	6.27
12	MARCH	I	4.76	6.40
		II	4.76	6.40

Format - HG4

Name of the Hydro Generating Station: Umiam Stage-IV***FY 11-12 (Actuals)***

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL	I	6.04	8.39
		II	2.61	3.63
2	MAY	I	10.02	13.46
		II	4.93	6.63
3	JUNE	I	17.54	24.36
		II	0.78	1.09
4	JULY	I	13.84	18.61
		II	11.90	16.00
5	AUGUST	I	14.97	20.12
		II	15.92	21.40
6	SEPTEMBER	I	15.11	20.98
		II	13.98	19.41
7	OCTOBER	I	14.18	19.06
		II	10.94	14.70
8	NOVEMBER	I	10.41	14.46
		II	7.30	10.14
9	DECEMBER	I	4.69	6.31
		II	6.50	8.74
10	JANUARY	I	0.79	1.06
		II	7.67	10.31
11	FEBRUARY	I	1.82	2.62
		II	5.94	8.53
12	MARCH	I	4.44	5.96
		II	1.49	2.01

Format - HG4

Name of the Hydro Generating Station: Umiam Stage-IV***FY 12-13 (Estimated)***

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL	I	4.71	6.54
		II	4.71	6.54
2	MAY	I	4.95	6.65
		II	4.95	6.65
3	JUNE	I	5.47	7.60
		II	5.46	7.58
4	JULY	I	6.48	8.71
		II	6.48	8.71
5	AUGUST	I	7.12	9.57
		II	7.11	9.56
6	SEPTEMBER	I	6.70	9.31
		II	6.70	9.31
7	OCTOBER	I	5.69	7.65
		II	5.68	7.63
8	NOVEMBER	I	4.66	6.47
		II	4.66	6.47
9	DECEMBER	I	4.86	6.53
		II	4.85	6.52
10	JANUARY	I	4.88	6.56
		II	4.88	6.56
11	FEBRUARY	I	4.39	6.53
		II	4.38	6.52
12	MARCH	I	4.85	6.52
		II	4.85	6.52

Format - HG4

Name of the Hydro Generating Station: Umiam Stage-IV***FY 13-14 (Projected)***

SL NO	MONTH	Unit	DESIGN ENERGY (MU)	MW CONTINUOUS
1	APRIL	I	4.71	6.54
		II	4.71	6.54
2	MAY	I	4.95	6.65
		II	4.95	6.65
3	JUNE	I	5.47	7.60
		II	5.46	7.58
4	JULY	I	6.48	8.71
		II	6.48	8.71
5	AUGUST	I	7.12	9.57
		II	7.11	9.56
6	SEPTEMBER	I	6.70	9.31
		II	6.70	9.31
7	OCTOBER	I	5.69	7.65
		II	5.68	7.63
8	NOVEMBER	I	4.66	6.47
		II	4.66	6.47
9	DECEMBER	I	4.86	6.53
		II	4.85	6.52
10	JANUARY	I	4.88	6.56
		II	4.88	6.56
11	FEBRUARY	I	4.39	6.53
		II	4.38	6.52
12	MARCH	I	4.85	6.52
		II	4.85	6.52

Format - HG5

Name of Generating Company :MePGCL

ANNUAL REVENUE REQUIREMENT(Old Stations)

S.No	Particulars	Previous year (Actuals)	Current Year (Estimated)	FY 2013-14 (Projected)
1	Gross Generation (MU)	NA	NA	523.89
2	Auxiliary Consumption (MU)	NA	NA	6.89
3	Net Generation (MU)	NA	NA	517.00
4	Free Energy to home state (MU)	NA	NA	-
5	Royalty (Rs.)	NA	NA	-
6	Water Charges (Rs.)	NA	NA	-
7	Capacity Charges (Rs.)	NA	NA	
	a) Interest on Loan capital (Rs.)	NA	NA	-
	b) Depreciation (Rs.)	NA	NA	141,108,484
	c) Advance against depreciation (Rs.)	NA	NA	-
	d) O&M Expenses (Rs.)	NA	NA	439,252,996
	e) Interest on working capital (Rs.)	NA	NA	34,227,478
	f) Foreign exchange Rate (%)	NA	NA	-
	g) Return on Equity (Rs)	NA	NA	127,662,524
	h) Income Taxes (Rs.)	NA	NA	-
	i) SLDC Charges	NA	NA	11,871,843
	Total fixed expenses (5+6+7) (Rs)	NA	NA	754,123,324

Format - HG5

Name of Generating Company :MePGCL

ANNUAL REVENUE REQUIREMENT(Sonapani)

S.No	Particulars	Previous year (Actuals)	Current Year (Estimated)	FY 2013-14 (Projected)
1	Gross Generation (MU)	NA	NA	6.07
2	Auxiliary Consumption (MU)	NA	NA	0.07
3	Net Generation (MU)	NA	NA	6.00
4	Free Energy to home state (MU)	NA	NA	-
5	Royalty (Rs.)	NA	NA	-
6	Water Charges (Rs.)	NA	NA	-
7	Capacity Charges (Rs.)	NA	NA	
	a) Interest on Loan capital (Rs.)	NA	NA	-
	b) Depreciation (Rs.)	NA	NA	5,037,130
	c) Advance against depreciation (Rs.)	NA	NA	-
	d) O&M Expenses (Rs.)	NA	NA	2,713,644
	e) Interest on working capital (Rs.)	NA	NA	412,132
	f) Foreign exchange Rate (%)	NA	NA	-
	g) Return on Equity (Rs)	NA	NA	4,561,834
	h) Income Taxes (Rs.)	NA	NA	-
	i) SLDC Charges	NA	NA	94,321
	Total fixed expenses (5+6+7) (Rs)	NA	NA	12,819,060

Format - HG5

Name of Generating Company :MePGCL

ANNUAL REVENUE REQUIREMENT(Leshka)

S.No	Particulars	Previous year (Actuals)	Current Year (Estimated)	FY 2013-14 (Projected)
1	Gross Generation (MU)	NA	NA	407.11
2	Auxiliary Consumption (MU)	NA	NA	6.11
3	Net Generation (MU)	NA	NA	401.00
4	Free Energy to home state (MU)	NA	NA	-
5	Royalty (Rs.)	NA	NA	-
6	Water Charges (Rs.)	NA	NA	-
7	Capacity Charges (Rs.)	NA	NA	
	a) Interest on Loan capital (Rs.)	NA	NA	922,253,000
	b) Depreciation (Rs.)	NA	NA	538,685,663
	c) Advance against depreciation (Rs.)	NA	NA	-
	d) O&M Expenses (Rs.)	NA	NA	248,047,263
	e) Interest on working capital (Rs.)	NA	NA	63,652,396
	f) Foreign exchange Rate (%)	NA	NA	-
	g) Return on Equity (Rs)	NA	NA	448,028,000
	h) Income Taxes (Rs.)	NA	NA	-
	i) SLDC Charges	NA	NA	7,922,946
	Total fixed expenses (5+6+7) (Rs)	NA	NA	2,228,589,267

Format - HG5

Name of Generating Company :MePGCL

ANNUAL REVENUE REQUIREMENT(Lakroh)

S.No	Particulars	Previous year (Actuals)	Current Year (Estimated)	FY 2013-14 (Projected)
1	Gross Generation (MU)	NA	NA	6.09
2	Auxiliary Consumption (MU)	NA	NA	0.09
3	Net Generation (MU)	NA	NA	6.00
4	Free Energy to home state (MU)	NA	NA	-
5	Royalty (Rs.)	NA	NA	-
6	Water Charges (Rs.)	NA	NA	-
7	Capacity Charges (Rs.)	NA	NA	
	a) Interest on Loan capital (Rs.)	NA	NA	-
	b) Depreciation (Rs.)	NA	NA	7,225,178
	c) Advance against depreciation (Rs.)	NA	NA	-
	d) O&M Expenses (Rs.)	NA	NA	3,244,293
	e) Interest on working capital (Rs.)	NA	NA	511,929
	f) Foreign exchange Rate (%)	NA	NA	-
	g) Return on Equity (Rs)	NA	NA	5,031,320
	h) Income Taxes (Rs.)	NA	NA	-
	i) SLDC Charges	NA	NA	94,321
	Total fixed expenses (5+6+7) (Rs)	NA	NA	16,107,042

Format-1

Name of the Licensee: MePGCL

EMPLOYEE COST

Rs Crores

Sl. No.	Particulars	FY 2011-12 (Actuals)	FY 2012-13 (Estimated)	FY 2013-14 (Projected)
SALARIES & ALLOWANCES				
1	Basic Pay			
2	Dearness Pay			
3	Dearness Allowance			
4	House rent Allowance			
5	Fixed Medical Allowance			
6	Medical re-imburement charges			
7	Over time payment			
8	Other allowances (detailed list to be attached)			
9	Generation & other incentive			
10	Bonus			
11	Sub-Total			
Terminal Benefits				
12	Leave encashment			
13	Staff welfare			
14	CPS			
15	Workman compensation			
16	Ex-gratia			
17	Sub-Total			
Pension Payment				
18	Basic Pension			
19	Dearness Pension			
20	Dearness Allowance			
21	Any other expenses			
22	Sub-Total			
23	Total (11+17+22)			
24	Amount capitalized			
25	Net Amount			
26	Add prior period expenses			
27	Grand Total:			

Note:

Employee Cost is part of O & M Expenses. Hence Separate statement not applicable

Format-2

Name of the Licensee: MePGCL

TOTAL NUMBER OF EMPLOYEES

Sl.No.	Particulars	FY 2011-12	FY 2012-13	FY 2013-14
		(Actuals)	(Estimated)	(Projected)
1	Number of employees as on 1st April	973	984	994
2	Number of employees on deputation/foreign service as on 1st April	0	0	0
3	Total Number of employees (1+2)	973	984	994
4	Number of employees retired/retiring during the year	50	35	43
5	Number of employees newly joined during the year	61	45	0
6	Number of employees at the end of the year (3-4+5)	984	994	951

Format- 3

Name of the Licensee: MePGCL

EMPLOYEES PRODUCTIVE PARAMETERS

Sl.No.	Particulars	FY 2011-12 (Actuals)	FY 2012-13 (Estimated)	FY 2013-14 (Projected)
1	Number of consumers in million	NA	NA	NA
2	Connected load in kW	NA	NA	NA
3	Line circuit in KM (LT+HT)	NA	NA	NA
4	Energy sold in MU	517.54	722.65	929.6
5	Employees per MU of energy sold	1.90	1.38	1.02
6	Employees per 1000 consumers	NA	NA	NA
7	Share of employees cost in total expenses	NA	NA	NA
8	Employees cost in paise / kWh of energy sold	NA	NA	NA
9	Line circuit KM (EHT Lines)	NA	NA	NA
10	Employees per KM of EHT line (Transmission related)	NA	NA	NA
11	Power station installed capacity own generation (MW)	271.2	316.2	316.2
12	Employees per MW of capacity For generating company	3.63	3.14	3.01

Format-4

Name of the Licensee: MePGCL

REPAIRS AND MAINTENANCE EXPENSES

Rs Crores

Sl. No.	Particulars	FY 2011-12 (Actuals)	FY 2012-13 (Estimated)	FY 2013-14 (Projected)
		3	4	5
1	Plant & Machinery	Not Applicable	Not Applicable	Not Applicable
	Plant & Apparatus			
	EHV Sub-Stations			
	33 KV Sub-Stations			
	11 KV Sub-Stations			
	Switch gear and Cable connections			
	Others			
	TOTAL:			
2	Building			
3	Hydraulic & Civil Works			
4	Line Cable & Network			
	EHV Lines			
	33 KV Lines			
	11 KV Lines			
	LT Lines			
	Meters & metering equipment			
	Others			
	TOTAL:			
5	Vehicles			
6	Furnitures & Fixtures			
7	Office equipments			
8	Civil Works			
9	TOTAL:			
10	Add/deduct share of other (To be specified)			
11	Total expenses			
12	Less capitalized			
13	Net expenses			
14	Add prior period			
15	Total expenses charges to revenue as R&M expenses			

Note:

R & M Expense is part of O & M Expenses. Hence Separate statement not applicable

Format-5

Name of the Licensee: MePGCL

ADMINISTRATION AND GENERAL EXPENSES

Rs Crores

Sl.No.	Particulars	FY 2011-12 (Actuals)	FY 2012-13 (Estimated)	FY 2013-14 (Projected)
1	2	3	4	5
1	Rent, Rates & Taxes	Not Applicable		
2	Insurance			
3	Telephone, Postage & Telegrams			
4	Consultancy fees			
5	Technical fees			
6	Other professional charges			
7	Conveyance & travel expenses			
8	Electricity & water charges			
9	Others			
10	Freight			
11	Other material related expenses			
12	Total Expenses			
13	Less Capitalized			
14	Net Expenses			
15	Add prior period			
16	Total expenses charged to revenue			

Note:

A & G Expense is part of O & M Expenses. Hence Separate statement not applicable

Format-6

Name of the Licensee: MePGCL

VALUE ASSETS AND DEPRECIATION FY 2011-12

Rs Crores

		Value of Assets at the beginning	Addition during the year	Withdrawn during the year	Value of Assets at the end of the year	Rate of Depreciation	Depreciation charges for the year
1).	Land	5.05	4.34	0.10	9.29		
2).	Buildings	15.67	0.02		15.69	3.34%	0.48
3).	Hydraulic works	128.42	0.03		128.45	5.28%	6.64
4).	Other Civil works	24.16	0.06		24.22	3.34%	0.76
5).	Plant & Machinery	125.57			125.57	Avg of 5.28% & 6.33%	5.53
6).	Lines & Cables	2.95			2.95	5.28%	0.11
7).	Vehicles	3.87	0.25		4.12	9.50%	0.20
8).	Furniture	2.22	0.20		2.42	6.33%	0.11
9).	Office equipment	1.98	0.13		2.11	6.33%	0.11
	TOTAL:	309.89	5.03	0.10	314.82		13.94

Format-6

Name of the Licensee: MePGCL

VALUE ASSETS AND DEPRECIATION FY 2012-13

Rs Crores

		Value of Assets at the beginning	Addition during the year	Withdrawn during the year	Value of Assets at the end of the year	Rate of Depreciation	Depreciation charges for the year
1).	Land	9.29	22.27		31.56		
2).	Buildings	15.69	35.15		50.84	3.34	1.42
3).	Hydraulic works	128.45	714.26		842.71	5.28	23.57
4).	Other Civil works	24.22	105.35		129.57	3.34	8.62
5).	Plant & Machinery	125.57	308.50		434.07	5.28 & 6.33	26.26
6).	Lines & Cables	2.95	0.05		3.00	5.28	0.21
7).	Vehicles	4.12	1.25		5.37	9.50	0.85
8).	Furniture	2.42	0.95		3.37	6.33	0.23
9).	Office equipment	2.11	1.13		3.24	6.33	0.24
	TOTAL:	314.82	1188.91	0.00	1503.73		61.40

Format-6

VALUE ASSETS AND DEPRECIATION FY 2013-14

MePGCL: Old Asset and Sonapani

Rs Crores

		Value of Assets at the beginning	Addition during the year	Withdrawn during the year	Value of Assets at the end of the year	Rate of Depreciation	Depreciation charges for the year
1).	Land	9.29	-	-	9.29		0.00
2).	Buildings	15.69	-	-	15.69	3.34%	0.47
3).	Hydraulic Works	128.45	-	-	128.45	5.28%	6.10
4).	Other Civil Works	24.22	-	-	24.22	3.34%	0.73
5).	Plant & Machinery	125.57	-	-	125.57	Avg of 5.28% & 6.33%	6.56
6).	Lines & Cables Network	2.95	-	-	2.95	5.28%	0.14
7).	Vehicles	4.12	-	-	4.12	9.50%	0.35
8).	Furniture	2.42	-	-	2.42	6.33%	0.14
9).	Other Office Equipment	2.11	-	-	2.11	6.33%	0.12
	Total	314.82	0.00	0.00	314.82		14.61

VALUE ASSETS AND DEPRECIATION- FY 2013-14

MePGCL: Myndtu Leshka

Rs Crores

S. No	Name of the Asset	Value of Assets at the beginning of the year	Addition during the year	Withdrawn during the year	Value of Assets at the end of the year	Rate of Depreciation (%)	Depreciation charges for the year
1	2	3	4	5	6	7	8
1	Land	22	-	-	22	0.00%	-
2	Buildings	35	-	-	35	3.34%	1.05
3	Hydraulic Works	714	-	-	714	5.28%	33.94
4	Other Civil Works	98	-	-	98	3.34%	2.93
5	Plant & Machinery	301	-	-	301	Avg of 5.28% & 6.33%	15.75
6	Lines & Cables Network	-	-	-	-	5.28%	-
7	Vehicles	1	-	-	1	9.50%	0.09
8	Furniture	1	-	-	1	6.33%	0.05
9	Other Office Equipment	1	-	-	1	6.33%	0.06
	Total	1,173.13	-	-	1,173.13		53.87

VALUE ASSETS AND DEPRECIATION- FY 2013-14

MePGCL: Lakroh

Rs Crores

S. No	Name of the Asset	Value of Assets at the beginning of the year	Addition during the year	Withdrawn during the year	Value of Assets at the end of the year	Rate of Depreciation (%)	Depreciation charges for the year
1	2	3	4	5	6	7	8
1	Preliminary	0.10	-	-	0.10	0.00%	-
2	Land & Site development	0.14	-	-	0.14	5.28%	0.01
3	Civil Works	9.61	-	-	9.61	5.28%	0.46
4	Vehicles	0.12	-	-	0.12	5.28%	0.01
5	Electrical Works	5.38	-	-	5.38	5.28%	0.26
	Total	15.34	-	-	15.34		0.72

Format-7

Name of the Licensee: MePGCL (LESHKA HEP)

DETAILS OF LOANS FOR THE FY 2011-12

Rs Lakhs

Sl.No.	Particulars	Opening Balance	Average Rate of Interest	Addition during the year	Repayment during the year	Closing Balance	Amount of interest paid
1	2	3	4	5	6	7	8
1	MSE Bonds	440.00	12%		440.00	0.00	52.80
2	NCD Bonds	17000.00	10.37%			17000.00	1763.63
3	LIC					0.00	
4	REC (Leshka)	24168.23	11.05%	1136.00		25304.23	2797.96
5	Commercial Banks	13671.76	14.74%	2054.91	1724.76	14001.91	2064.50
6	Bills Discounting					0.00	
7	Lease rental					0.00	
8	PFC	9520.00	12.09%			9520.00	1151.03
9	GPF					0.00	
10	CSS					0.00	
11	Working Capital Loan	1901.88	9.5%	2475.77	2454.63	1923.02	14.62
12	Other (details to be given)					0.00	
13	TOTAL:	66701.87		5666.68	4619.39	67749.16	7844.54
14	Add State Govt. Loan	5805.92	10.20%	3051.14		8857.06	746.10
15	TOTAL: (13+14)	72507.79		8717.82	4619.39	76606.22	8590.64
16	Less Capitalization					0.00	7745.52
17	Net Interest					0.00	845.12
18	Add prior period					0.00	
19	Total Interest					0.00	845.12
20	Finance Charges					0.00	0.06
21	Total Interest and Finance Charges					0.00	845.18

Note:

Separate statement to be furnished for previous year (Actuals), Current Year (Estimated) and Ensuing year (Projected)

Format-7

Name of the Licensee: MePGCL (LESHKA HEP)

DETAILS OF LOANS FOR THE FY 2012-13

Rs Lakhs

Sl.No.	Particulars	Opening Balance	Rate of Interest	Addition during the year	Repayment during the year	Closing Balance	Amount of interest paid
1	2	3	4	5	6	7	8
1	SLR Bonds						
2	NCD Bonds	17000.00	10.60%			17000.00	1763.63
3	LIC					0.00	
4	REC	25304.23	10.60%		2530.42	22773.81	2561.05
5	Commercial Banks	14001.91	13.26%		1507.72	12494.19	1632.80
6	Bills Discounting					0.00	
7	Lease rental					0.00	
8	PFC	9520.00	10.60%	10150.00	655.66	19014.34	1337.04
9	GPF						
10	CSS						
11	Working Capital Loan	1923.02				1923.02	18.42
12	Other (details to be given)					0.00	
13	TOTAL:	67749.16		10150.00	4693.80	73205.36	7312.94
14	Add State Govt. Loan	8857.06	10.32%	103.88	410.58	8550.36	960.04
15	TOTAL: (13+14)	76606.22		10253.88	5104.38	81755.72	8272.98
16	Less Capitalization					0.00	2228.88
17	Net Interest					0.00	6044.10
18	Add prior period					0.00	
19	Total Interest					0.00	6044.10
20	Finance Charges					0.00	0.07
21	Total Interest and Finance Charges					0.00	6044.17

Note:

Separate statement to be furnished for previous year (Actuals), Current Year (Estimated) and Ensuing year (Projected)

Format-7

Name of the Licensee: MePGCL (LESHKA HEP)

DETAILS OF LOANS FOR THE FY 2013-14

Rs Lakhs

Sl.No.	Particulars	Opening Balance	Rate of Interest	Addition during the year	Repayment during the year	Closing Balance	Amount of interest paid
1	2	3	4	5	6	7	8
1	SLR Bonds						
2	NCD Bonds	17000.00	11.41%			17000.00	1763.63
3	LIC					0.00	
4	REC	22773.81	11.41%		2530.42	20243.39	2289.15
5	Commercial Banks	12494.19	13%		1527.34	10966.85	1455.95
6	Bills Discounting					0.00	
7	Lease rental					0.00	
8	PFC	19014.34	11.41%	2936.00	1507.07	20443.27	2696.20
9	GPF					0.00	
10	CSS					0.00	
11	Working Capital Loan	1923.02				1923.02	18.60
12	Other (details to be given)					0.00	
13	TOTAL:	73205.36		2936.00	5564.83	70576.53	8223.53
14	Add State Govt. Loan	8550.36	10.82%	600.00	688.15	8462.21	1017.52
15	TOTAL: (13+14)	81755.72		3536.00	6252.98	79038.74	9241.05
16	Less Capitalization					0.00	
17	Net Interest					0.00	9241.05
18	Add prior period					0.00	
19	Total Interest					0.00	9241.05
20	Finance Charges					0.00	0.08
21	Total Interest and Finance Charges					0.00	9241.13

Note:

Separate statement to be furnished for previous year (Actuals), Current Year (Estimated) and Ensuing year (Projected)

Format-8

Name of the Licensee: MePGCL

INTEREST CAPITALIZED

Sl.No.	Particulars	FY 2011-12 (Actuals)	FY 2012-13 (Estimated)	FY 2013-14 (Projected)
1	2	3	4	5
1	WIP	137541.00	35770.81	54559.90
2	GFA at the end of the year	31482.18	149465.00	157807.00
3	WIP + GFA at the end of the year	169023.18	185235.81	212366.90
4	Interest(Excluding interest on WCL	9037.39	8779.57	10000.14
5	Interest Capitalilzed	8750.22	3713.93	1642.11

WIP = Work-in-Progress

GFA = Gross Fixed Assets

WCL = Working Capital Loan

Format- 9

Name of the Licensee: MePGCL

INFORMATION REGARDING RESTRUCTURING OF OUTSTANDING LOANS DURING THE YEAR

Rs Lakhs

S. N	Source of loan	Amount of original loan	Old rate of interest (%)	Amount already restructured	Revised rate of interest (%)	Amount now being restructured	New rate of interest (%)
1	2	3	4	5	6	7	8
	Not Applicable						
	Not Applicable						
	Not Applicable						
	Not Applicable						

Format- 10

Name of the Licensee: MePGCL

INFORMATION REGARDING REVENUE FROM OTHER

Rs Lakhs

S.N	Particulars	Amount
1	2	3
1	Total Revenue from other business	4.93
2	Income from other business to be considered	-

Format- 11

Name of the Licensee:MePGCL

INFORMATION REGARDING WORKING CAPITAL FOR FY 2013-14

Rs Lakhs

S.N	Particulars	Old Assets	Sonapani	Leshka	Lakroh
1	O & M Expenses for 1 month	366.04	2.26	206.71	2.70
2	Maintenance Spares @15% of O&M plus escalated by 6%	698.41	4.31	394.40	5.16
3	Receivables @ 2 months of Fixed Cost	1,256.05	21.37	3,714.32	26.85
6	Total	2,320.51	27.94	4,315.42	34.71

Format- 12

Name of the Licensee:MePGCL

INFORMATION REGARDING FOREIGN EXCHANGE RATE VARIATION (FERV)

Rs Lakhs

S.N	Particulars	Amount
1	2	3
1	Amount of liability provided	NA
2	Amount recovered	
3	Amount adjusted	

Format- 13

Name of the Licensee: MePGCL

INFORMATION REGARDING WHOLESALE PRICE INDEX (ALL COMMODITIES)
(TO BE SUPPLIED WITH DOCUMENTARY EVIDENCE)

Rs Lakhs

S.N	Period	WPI	Increase over
1	2	3	4
1	As on April 1 of previous year	NA	NA
2	As on April 1 of current year		
3	As on April 1 of ensuing year		

Format- 14 (A)

Name of the Licensee: MePGCL

A. ESTIMATED REVENUE AT EXISTING TARIFF (LT)

S.No	Category	Connected Load (KW)	Fixed Charges per KW	Total Fixed Charges (Rs. in	Slab in the Category	Sale in each Slab (MU)	Existing Tariff Rate (paise per Kwh)	Amount (in lakh)	Total amount for the	Average tariff for the year
1	Not Applicable									
2										
3	Total (LT)									

Name of the Licensee: MePGCL

Format- 14 (B)

B. ESTIMATED REVENUE AT EXISTING TARIFF (HT)

S. No	Category	Contract Demand	Billing Demand	Sale of Energy	Fixed Charge	Energy Charges	Total Fixed Charges	Total Energy Charges	Grand Total amount for the	Average tariff for the
1	Not Applicable									
2										
3	Total (HT)									
4	Total (LT)									
5	Total (LT+HT)									

Name of the Licensee: MePGCL

Format- 14 (c)

C. ESTIMATED REVENUE AT EXISTING TARIFF

S. No	Category	Contract Demand	Billing Demand	Sale of Energy	Existing Tariff	Total amount for the year	Total amount for the category	Average tariff for the year
1	Not Applicable							
2								
3	Total (LT+HT+ EHT)							

Name of the Licensee: MePGCL

Format- 14 (d)

D. ESTIMATED REVENUE AT EXISTING TARIFF

S. No	Category	Contract Demand	Billing Demand	Sale of Energy	Existing Tariff	Total amount for the year	Total amount for the category	Average tariff for the year
1	Not Applicable							
2								
3	Grand Total							

Format - 15

Name of the Licensee: MePGCL

Investment Plan (Scheme - wise)

Rs Lakhs

S. N	Name of Scheme/ Project	Approved Outlay	Previous Year (Actuals)	Current Year (RE)	Ensuing Year (Projections)	Progressive Expenditure upto Ensuing Year
1	2	3	4	5	6	7
	Nil					

Note: I) Information for previous year to be given in columns 1 to 7

Note: ii) Information for the current year to be given in columns 1 to 5

iii) Schemes costing Rs. Ten lakhs are above to be shown.

Format- 16

Name of the Licensee: MePGCL

Investment Plan (Year - wise)

Rs Lakhs

S.N	Year	Originally proposed by the Utility	Approved by the Commission	Revised by the Utility	Revised approval by the Commission in review	Actual expenditure
1	2	3	4	5	6	7
Nil						

Note: I) Information for previous year to be given in columns 1 to 7

Note: ii) Information for the current year to be given in columns 1 to 5

Format-17

Name of the Licensee: MePGCL

WORK -IN-PROGRESS

Rs Lakhs

Sl.No.	Particulars	FY 2011-12 (Actuals)	FY 2012-13 (Estimated)	FY 2013-14 (Projected)
1	2	3	4	5
1).	Opening Balance	112,448.59	137,541.00	33,632.36
2).	Add: New investments	25,186.52	14,978.61	18,723.26
3).	TOTAL:	137,635.11	152,519.61	52,355.62
4).	Less investment capitalized	94.11	118,887.25	
5).	Closing Balance	137,541.00	33,632.36	52,355.62

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No.37

Shillong, Wednesday, March 31, 2010.

10th Chaitra, 1932 (S. E.)

PART II-A

GOVERNMENT OF MEGHALAYA
POWER DEPARTMENT
ORDERS BY THE GOVERNOR

NOTIFICATION

The 31st March, 2010.

THE MEGHALAYA POWER SECTOR REFORMS TRANSFER SCHEME 2010

No. POWER-79/2009/290. - In exercise of the powers conferred by Section 131 and 133 and other applicable provisions of the Electricity Act 2003, (Central Act No.36 of 2003) the State Government hereby makes the following Scheme for providing and giving effect to the transfer of assets, properties, rights, liabilities, obligations, proceedings and personnel of Meghalaya State Electricity Board to, namely :-

- (i). Meghalaya Energy Corporation Limited (MeECL), the Holding Company;
- (ii). Meghalaya Power Distribution Corporation Limited (MePDCL), the Distribution Utility;
- (iii). Meghalaya Power Generation Corporation Limited (MePGCL), the Generation Utility; and
- (iv). Meghalaya Power Transmission Corporation Limited (MePTCL), the Transmission Utility.

1. Short title, extent and commencement:

- (1) This Scheme shall be called the Meghalaya Power Sector Reforms Transfer Scheme, 2010.

- (2) This Scheme shall extend to the whole of the State of Meghalaya and also to such Assets, Properties, Rights, Liabilities, Obligations, Proceedings and Personnel of the Meghalaya State Electricity Board outside the State of Meghalaya
- (3) This Scheme shall come into force with immediate effect from the date notified by the State Government for the purpose.

2. Definitions:

- (1) In this Scheme, unless there is anything repugnant in the subject or context, namely :-
- (a) **"Act"** means the Electricity Act, 2003 (Central Act No.36 of 2003);
- (b) **"Board"** means the Meghalaya State Electricity Board (MeSEB) constituted under Section 5 of the Electricity (Supply) Act, 1948 (Central Act No. 54 of 1948) as was in force at the relevant time;
- (c) **"Effective date of transfer"** means the date of transfer notified by the State Government and/or different dates as may be notified for transfer of different functions assets liabilities and personnel;
- (d) **"Transferee"** means following companies in whom the Undertaking or Undertakings of Board, the transferor shall be vested:-
- (i). "MeECL." means the Meghalaya Energy Corporation Limited, which is incorporated with the principal objective of acting as the Holding Company and also engaging in the business of coordinating and smooth functioning of distribution, generation and transmission of electricity in the State of Meghalaya.
- (ii). "MePDCL" means the Meghalaya Power Distribution Corporation Limited, which is incorporated with the principal objective of engaging in the business of Distribution of power in the State of Meghalaya.
- (iii). "MePGCL" means the Meghalaya Power Generation Corporation Limited, which is incorporated with the principal objective of engaging in the business of Generation of power in the State of Meghalaya.
- (iv). "MePTCL" means the Meghalaya Power Transmission Corporation Limited, which is incorporated with the principal objective of engaging in the business of Transmission of power and providing open access facilities to the consumers in the State of Meghalaya.
- (e) **"Assets"** means the Power system assets of any description whatsoever belonging to the Board and shall include dams, dykes, reservoirs, tunnels, intake and outlet structures of water conductor systems, generating stations with associated plants, machineries,

equipments, transmission and distribution systems, lands, buildings, offices, stores, furniture, fixtures, vehicles, residential quarters and guest houses and amenities and installations pertaining thereto and other movable and immovable assets, cash in hand, cash at bank, investments, book debts, corporeal or incorporeal, tangible and intangible assets, benefits, licences, consents, authorities, registrations, liberties, patents, trade marks and powers of every kind, nature and description whatsoever, rights, privileges, easements, advantages, benefits and approvals, contracts, deeds, schemes, bonds, agreements and other instruments and interest of whatever nature and wherever situated including the contingent Assets, which may arise in regard to dealings before the effective date of transfer in respect of the specified Undertakings;

(f) **"Liabilities"** include all liabilities, debts, duties, obligations and other outgoings including statutory liabilities and Government levies of whatever nature including the contingent liabilities, which may arise in regard to dealings before the effective date of transfer in respect of the specified Undertaking (s);

(g) **"Personnel"** means existing and retired workmen, employees, staff and officers of the Board by whatever name called including those on deputation to other organisations or institutions, but shall exclude persons on deputation from other organisations to the Board;

(h) **"Proceedings"** include all proceedings of whatever nature including suits, appeals, complaints, petitions, applications, conciliatory or arbitration, whether civil or criminal, or otherwise in which 'Board' is one of the parties;

(i) **"Schedule"** means the schedules appended to this Scheme;

(j) **"State Government"** means the Government of Meghalaya;

(k) **"Undertaking (s)"** mean a block or blocks of assets and liabilities of whatever nature of the Board, as the case may be, concerning generation, transmission, distribution or supply of electricity, and unless the context otherwise requires shall include the concerned personnel;

(2) Words and expressions used and defined in the Act but not defined in this Scheme shall have the same meaning as assigned in the Act.

3. Transfer of Assets and Liabilities etc. to the State Government:-

(1) On and from the effective date of transfer, all assets, property interest in property rights and liabilities of the Board and including all obligations and contingencies shall stand transferred to and vest in the State Government absolutely, and all claims of the Board against the State

Government and all claims of State Government against the Board shall stand extinguished and cancelled.

(2) Nothing in sub-clause (1) shall apply to rights, responsibilities, liabilities and obligations in respect of the Personnel and matters relating thereto including statutory dues such as salary, wages, gratuity, pension, provident fund, compensation and retirement benefits and these shall be dealt with in the manner provided under **clause 6** of this Scheme.

4. Classification of Assets and Liabilities etc. into Company (ies)/Undertaking (s):-

(1) The Assets and Liabilities vested in the State Government in terms of **clause 3** and such other Assets and Liabilities as the State Government considers appropriate but excluding those specified in sub-clause (3) of this clause shall stand classified into:

- (a) Distribution Undertaking as set out in **Schedule – “A”**
- (b) Generation Undertaking as set out in **Schedule – “B”**
- (c) Transmission Undertaking as set out in **Schedule – “C”**
- (d) Holding Undertaking as set out in **Schedules – “D”**

(2) If the assets under sub-clause (1) above are subject to security documents or arrangements in favour of third parties for any financial assistance or obligation taken by the Board and the liabilities in respect thereof are to be classified in different Undertaking (s), the State Government, may by order, provide for the apportionment of the liabilities secured by such properties, assets and rights between the different Undertaking (s) and upon such apportionment the security shall be applicable to the apportioned liability only.

(3) The assets and liabilities specified in **Schedule – “E”** shall not form a part of the assets and liabilities classified in **Schedules – “A to D”** but shall form part of residuary assets and liabilities to be retained by the State Government.

5. Transfer of Assets, Liabilities, etc. by the State Government:-

(1) The Assets and Liabilities including all rights, obligations and contingencies forming part of **Schedule – “A”** shall stand transferred to and vest in MePDCL on and from the effective date of transfer without any further act or thing to be done by the State Government or the Board or MePDCL or any other person, subject, however, to the terms and conditions of this Scheme.

(2) The Assets and Liabilities including all rights, obligations and contingencies forming part of **Schedule – “B”** shall stand transferred to and vest in MePGCL on and from the effective date of transfer without any further act or thing to be done by the State Government or the Board

or MePGCL or any other person, subject, however, to the terms and conditions of this Scheme.

- (3) The Assets and Liabilities including all rights, obligations and contingencies forming part of **Schedule – “C”** shall stand transferred to and vest in MePTCL on and from the effective date of transfer without any further act or thing to be done by the State Government or the Board or MePTCL or any other person, subject, however, to the terms and conditions of this Scheme.
- (4) The Assets and Liabilities including all rights, obligations and contingencies forming part of **Schedules – “D”** shall stand transferred to and vest in MeECL on and from the effective date of transfer without any further act or thing to be done by the State Government or the Board or MeECL or any other person, subject, however, to the terms and conditions of this Scheme.
- (5) The Assets and Liabilities including all rights, obligations and contingencies forming part of **Schedules – “E”** shall be retained by the State Government on and from the effective date of transfer without any further act or thing to be done by the State Government or the Board or MeECL or MePTCL or MePGCL or MePDCL or any other person, subject, however, to the terms and conditions of this Scheme.
- (6) On such transfer and vesting of the Assets and Liabilities including all rights, obligations and contingencies in terms of sub-clause (1) to MePDCL or in terms of sub-clause (2) to MePGCL or in terms of sub-clause (3) to MePTCL, or in terms of sub-clause (4) to MeECL in terms of sub-clause (5) to the State Government, as the case may be, the Transferee concerned shall be responsible for all contracts, rights, deeds, schemes, bonds, agreements and other instruments of whatever nature pertaining to the Undertaking (s) or assets or liabilities transferred to it, to which the Board was initially a party, subsisting or having effect on the effective date of transfer, in the same manner as the Board was liable immediately before the effective date of transfer, and the same shall be in full force and effect against or in favour of the Transferee and may be enforced as fully and effectively as if the Transferee had been a party thereto instead of the Board.
- (7) As consideration for the transfer and vesting of the Assets and Liabilities including all rights, obligations and contingencies to MePDCL, MePGCL, MePTCL and MeECL as mentioned in sub-clauses (1), (2), (3) and (4) respectively, the State Government will be issued shares and/ or instruments in MeECL as specified in **Schedules – “D”** and MeECL will be issued shares and/ or instruments in MePDCL, MePGCL and MePTCL as specified in **Schedules – “A” “B” and “C”** respectively.

6. Transfer and Deputation of Personnel:-

- (1) The transfer of personnel in terms of this Scheme shall be subject to the terms and conditions contained in the Act.
- (2) The personnel of the Board, involved in Distribution, Generation Transmission and Common Services including at the Head Office, on the effective date of notification of the transfer scheme, will stand transferred to the holding company MeECL.
- (3) Subject to sub-clause (1), the personnel on the effective date of transfer shall stand further deputed as under: -
 - (a) The personnel classified in **Schedule – “F”** pertaining to MePDCL Distribution activities shall stand deputed to MePDCL.
 - (b) The personnel classified in **Schedule – “G”** pertaining to MePGCL Generation activities and all other Personnel of the Board shall stand deputed in MePGCL.
 - (c) The personnel classified in **Schedule – “H”** pertaining to Transmission activity shall stand deputed in MePTCL.
- (4) On such transfer and subject to the provisions of the Act and other provisions of this Scheme the personnel shall form a part of the services of MePDCL, MePGCL and MePTCL as the case may be, but their rank, scale of pay and inter-se seniority as existing in the Board on the effective date of transfer shall be maintained in the holding company and the retirement benefits and other facilities shall in no way be reduced than the one existing in the Board on the effective date of transfer.
- (5) Notwithstanding the provisional nature of transfer of personnel to MeECL and further deputed to MePDCL, MePGCL and MePTCL, as per sub- clause (2)&(3) of clause 6, the personnel shall discharge the duties and functions as may be assigned to them from time to time by MePDCL, MePGCL and MePTCL, as the case may be, and MePDCL, MePGCL and MePTCL, shall have the power to exercise all administrative and disciplinary control over such personnel transferred to them as per this Scheme.
- (6) The transfer and further deputation of personnel shall be subject to the following conditions, namely, -
 - (a) That the terms and conditions of the services applicable to personnel on the effective date of transfer shall not in anyway be less favourable than those applicable to them immediately before the said effective date of transfer. Accordingly the salary,

allowances and other pecuniary benefits including terminal benefits applicable on the effective date of transfer shall be protected and shall not be adversely changed;

- (b) All such personnel shall have continuity of service in all respects;
 - (c) All benefits of service accrued before the said effective date of transfer shall be fully recognised and taken into account for all purposes including the payment of terminal benefits;
 - (d) To any orders that may be passed by the Courts in the proceedings pending on the said effective date of the transfer in regard to seniority or other matters concerning the service conditions of the Personnel; and
 - (e) Subject to this Scheme, the personnel shall cease to be in the service of the Board and shall not assert or claim any benefit of service under the State Government.
- (7) Subject to the Act and this Scheme, the Transferee i.e. MeECL shall be entitled to frame regulations governing the conditions of personnel transferred to the Transferee under this Scheme and till such time the existing/ (as suggested for modification) service rules/regulations of the Board shall apply mutatis-mutandis.
- (8) Subject to sub- clause (6), in respect of all statutory and other schemes and employment related matters including the provident fund, gratuity fund, pension, leave encashment and any other Superannuation fund or any other special fund created or existing for the benefit of the personnel, the relevant Transferee i.e. MeECL shall stand substituted for the Board for all purposes and all the rights, powers and obligations of the Board in relation to any and all such matters shall become those of the Transferee concerned and the services of the personnel shall be treated as having been continuous for the purpose of the application of this sub- clause.
- (9) (i) The funds and trusts established for and existing on the date of transfer relating to pension, provident fund, gratuity, leave encashment and all other terminal benefits including for the retired Personnel of the Board shall be vested under the control of MeECL in such manner as the State Government may notify for the purpose.
- (ii) MeECL shall be responsible to ensure that the Terminal Benefit Trusts including Pension, Gratuity and Leave encashment, etc. of the Board personnel are progressively funded in regard to the unfunded part to meet the pension, gratuity and leave encashment payments pertaining to the years of service rendered by the personnel of the Board including retired personnel in the Board as determined as per actuarial valuation to be done for the purpose or;

- (iii) In the event of any shortfall of funds with the trusts at any point of time relating to the period prior to the Date of Transfer, the State Government shall pay the shortfall of the required funds to meet the ongoing outflow on annual basis;
- (iv) MeECL shall be responsible to ensure that the contribution to the Trusts relating to personnel related funds, for the services after the effective date of transfer, of their respective personnel are made as required from time to time.
- (10). All obligations in respect of pension, gratuity, leave encashment and other retirement benefits including provident fund, superannuation and gratuity to the personnel, who have retired from the services of the Board before the effective date of transfer, shall be discharged by MeECL.
- (11). All proceedings including disciplinary proceedings pending against the personnel prior to the effective date of transfer from the Board to Transferee or from Transferee to other Transferee (s), on deputation as the case may be, or which may relate to misconduct, lapses or acts of commission or omission committed before the effective date of transfer shall not abate and will be continued with the Transferee consistent with the applicable service Rules.
- (12). Rights and obligations of third parties restricted** – Upon the transfer being effected in accordance with the Act and this Scheme the rights and obligations of all persons shall be restricted to the Transferee to whom they are assigned to and notwithstanding anything contained in any deed, documents, instruments, agreements or arrangements which such person has with the Board, the person shall not claim any right or interest against the State Government or the Board or any other Transferee except the transferee to whom it is assigned.
- (13). Pending proceedings** – All proceedings of whatever nature by or against the Board pending on the effective date of transfer shall not abate or discontinue or otherwise in anyway be affected prejudicially by reason of the transfer scheme mentioned in the Act and in provisions of this Scheme, and such proceedings may be continued and prosecuted by or against the Transferee (s) to whom the assets and liabilities including all rights, obligations and contingencies relating to such proceedings are assigned in accordance with this Scheme. Such proceedings may be continued in the same manner and to the same extent as it would or might have been continued and prosecuted by or against the Board if the transfers specified in this Scheme had not been made.

7. Classifications and Transfer of Assets and Liabilities provisional in the first instance:-

- (1) The classification and transfer of Company (ies), unless otherwise specified in any order made by the State Government, shall be provisional and shall be final upon the expiry of 12 months from the effective date of the transfer.
- (2) At any time within a period of 12 months from the effective date of the transfer, the State Government may by order to be notified amend, vary, modify, add, delete or otherwise change terms and conditions of the transfer including items included in the transfer or the value thereof, and transfer such assets, properties, rights, interests, liabilities, obligations and forming part of one Transferee (s) to that of any other Transferee (s) or to the State Government in such manner and on such terms and conditions as the State Government may consider appropriate. Upon such orders having being passed the relevant Schedule shall stand amended accordingly and shall be effective as if it has been made on the effective date of transfer.
- (3) On the expiry of the period of 12 months from the date of the transfer but subject to any directions given by the State Government, the transfer of Undertaking (s), properties, interests, rights, liabilities and obligations made in accordance with this Scheme shall become final.

8. The transfer of the personnel to be provisional in the first instance:-

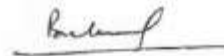
- (1) All transfer of personnel from the Board to MeECL, under clause 6 shall be provisional for a period of 12 months and after this period the transfer shall be treated as final, subject to any order passed by the State Government under the sub-clause (2) of clause 7.
- (2) The State Government shall, within thirty days from the effective date of transfer, constitute a Grievance Redressal Committee to receive representations from personnel. The committee shall consider representations so received, based on the need of the transferee (s), suitability of personnel, organisational requirements and other relevant factors, keeping consistency with the overall objectives of the Act, and make recommendations to the State Government.
- (3) (a) At any time within a period of 12 months from the effective date of transfer, the State Government may, by order to be notified, amend, vary, modify, or otherwise change the deputation of personnel to transferee (s), under sub-clause (3) of clause 6, as the State Government may consider appropriate. Upon such orders having been passed, the relevant Schedules shall stand amended accordingly.

(b) The transfer and deputation thereafter of personnel to the transferee (s), in accordance with the amended Schedules, shall be final and shall be effective as if it has been made on the effective date of transfer.

9. Decision of State Government final:-

- (1) The Transfer Scheme is published in the Official Gazette pursuant to the decision of the State Cabinet in the meeting held on 25th June 2009.
- (2) If any doubt, dispute, difference or issue shall arise in regard to the transfers under this Scheme subject to the provisions of the Act, the decision of State Government thereon shall be final and binding on all parties.
- (3) The State Government may, by order publish in the Official Gazette, make such provisions, not inconsistent with the provisions of the Act, as may appear to be necessary for removing the difficulties arising in implementing the transfers under this Scheme.

By the order of the Governor



B. K. DEV VARMA,
Principal Secretary,
Government of Meghalaya
Power Department, Shillong

SCHEDULE - 'A'

(See Clause 4(1) (a))

DISTRIBUTION COMPANY**PART - I**

The distribution company shall comprise of all the Assets, Liabilities including all rights, obligations, contingencies and proceedings belonging to the Board concerning distribution of electricity including but not limited to the following:

I. DISTRIBUTION ASSETS:

All 33 Kv, 11 Kv, Lt. (Single phase 2 wire to 3 phase 5 wire) lines (with overhead lines, Aerial Bunched cables and underground cables) and Sub-stations on different types of supports with various sizes of conductors and step up/step down transformers, breakers, protective and metering devices and control rooms, testing laboratories, lands (including right of way), buildings, roads, diesel generating sets or other conventional and non-conventional generating units, service connections and installations inside consumer's premises, street lighting and signal systems owned by or leased to the Board but excluding fittings, fixtures and installations owned, by private persons or local authorities, including any of the above assets under construction as on effective date of transfer but excluding any such assets if clubbed/included with the assets pertaining to the Transmission Company.

II GENERAL ASSETS OF DISTRIBUTION COMPANY:

(a) The following, if they exclusively or primarily pertain to the above mentioned distribution systems, properties or projects or activities related to such distribution systems, properties or projects, Special tools and equipment, material handling equipment, earth movers, bulldozers, concrete mixtures, cranes, trailers, heavy and light vehicles, furniture, fixtures, office equipment, air conditioners, refrigerators, computers and signal systems, spares, consumables, raw materials, lands and civil works installations including roads, buildings, staff quarters, rest houses, properties and structures and their associated buildings, schools, dispensaries, testing laboratories and equipment, training centers, workshops, works in progress, machinery and equipment sent for repairs, scraps and obsolete.

(b) The office buildings excluding the surrounding unutilized vacant land, office establishment and other buildings and lands, not covered elsewhere in this schedule which are predominantly occupied/used for the activities of Distribution Division as on the effective date of transfer excluding however the assets specifically included in Schedule "B&C".

III. MISCELLANEOUS:

1. Contracts, agreements, rights, interest and arrangements including contingencies to the extent they are associated with or related to Distribution activities or to the assets referred to in Para I & II above.
 2. Loans, secured and unsecured, to the extent they are associated with or related to Distribution activities or to the assets referred to in Para I & II above.
 3. Cash and bank balance to the extent they are associated with or related to Distribution activities or to the assets referred to in Para I & II above.
 4. Other current assets to the extent they are associated with or related to Distribution activities or to the assets referred to in Para I & II above.
 5. Other Current liabilities and provisions to the extent they are associated with or related to Distribution activities or to the assets referred to in Para I & II above.
 6. Contingent liabilities to the extent they are recognised and are associated with or related to Distribution activities or to the assets referred to in Para I & II above.
 7. Other liabilities to the extent they are associated with or related to Distribution activities or to the assets referred to in Para I & II above.
 8. Obligations and Proceedings to the extent they are associated with or related to Distribution activities or Assets referred to in Para I & II above.
- IV. In consideration of the transfer as mentioned above, the Distribution Company shall issue 135478700 shares of face value of Rs 1000/- each to the Holding -----Company.

SCHEDULE - 'B' - PART - I

(See Clause 4(1) (b))

GENERATION COMPANY

The Generation company shall comprise of all the Assets, Liabilities including all rights, obligations, contingencies and proceedings belonging to the Board concerning Generation of electricity including but not limited to the following:

I. **EXISTING POWER STATIONS:** All existing Power generating stations, of all kinds including Hydel and Thermal, shall form part of this Generation Division of MePGCL including all other assets appurtenant thereto.

HYDEL & THERMAL POWER STATIONS:

S.No.	Power Station	Capacity
1.	Soanapani Mini Hydro Plant (abandoned since 1982)	1.305 MW
2.	Umtru Power Station	11.20 MW
3.	Umiam Stage-I Power Station	36.00 MW
4.	Umiam Stage-II Power Station	18.00 MW
5.	Umiam Stage-III Power Station	120.00 MW
	Total	185.20 MW

II. POWER PROJECTS UNDER CONSTRUCTION:

S. No.	PARTICULARS
1.	Sonapani (1x1.50) MW
2.	Leshka Stage-I (3 x 42) MW
3.	New Umtru HEP (2 x 20) MW
4.	Ganol HEP (3 x 7.5) MW
5.	Lakroh HEP (1.5 MW)
6.	Renovation, Modernization and Upgradation of Umiam Stage II Power Station
7.	Survey and Investigation Schemes

III. GENERAL ASSETS OF GENERATION COMPANY:

(a) The following, if they exclusively or primarily pertain to the generating stations or projects referred to in Para I and II above or activities related to such generating stations or projects: Special tools and equipment, material handling equipment, earth movers, bulldozers, concrete mixtures, cranes, trailers, heavy and light vehicles, furniture, fixtures, office equipment, air conditioners, refrigerators, computers and signal systems, spares, consumables, raw materials, lands and civil works installations including roads, buildings, staff quarters, rest houses, properties and structures

PART - II

Aggregate Assets and Liabilities to be vested in the Distribution Company

As on 1.04.08 (Figures in Rs. Lakhs)		
NET ASSETS		Distribution
	Gross Block	17548.43
	Less: Accumulated Depreciation	10811.36
1	Net Fixed Assets	6937.07
2	Capital Expenditure in Progress	24456.00
3	Assets not in use	
4	Deferred cost	
5	Intangible Assets	
6	Investments	0.00
7	Net Current Assets	2704.65
	Total Current Assets	14281.86
	Stocks	840.01
	Receivables against supply of Power	11374.18
	Cash & Bank balances	1200.00
	Loans & Advances	110.12
	Sundry receivables	757.55
	Less: Total Current Liabilities	11577.20
	Security Deposit from customers	42.05
	Other current liabilities	0.00
	Liabilities for purchase of power	8947.99
	Liabilities for capital supplies/works	439.81
	Liabilities for O & M Supplies/works	104.32
	Staff related liabilities & Provisions	0.00
	Deposits & retention from suppliers & contractors	564.24
	Provision for Pension Payments	0.00
	Electricity duties & other levies	0.00
	Liabilities for expenses	521.96
	Other liabilities & provisions	168.72
	Deposits for electrification service connections	788.12
	Provision for I.TAX/FBT	0.00
8	Subsidy receivable from Government	0.00
	TOTAL ASSETS	34097.72
	FINANCED BY	
9	Borrowings for working capital	169.24
10	Payment due on Capital Liabilities	1269.59
11	Capital Liabilities	19111.01
12	Equity Capital from MeECL/GoMe	13547.87
13	Contributions, Grants and subsidies towards cost of capital assets	0.00
14	Reserve & Reserve funds	0.00
15	Surplus/(deficit)	0.00
	TOTAL FUNDS	34097.71

and their associated buildings, schools, dispensaries, testing laboratories and equipment, training centers, workshops, capital works in progress, machinery and equipment sent for repairs, scraps and obsolete etc.

(b) The office establishment and other buildings and lands, not covered elsewhere in this Schedule which are predominantly occupied/used for the activities of Generation Company as on the effective date of transfer excluding however the assets specifically included in Schedule A & C.

IV. MISCELLANEOUS:

1. Contracts, agreements, rights, interest and arrangements including contingencies to the extent they are associated with or related to Generation activities or to the assets referred to in Para I to III above.

2. Loans, secured and unsecured, to the extent they are associated with or related to Generation activities or to the assets referred to in Para I to III above.

3. Cash and bank balance to the extent they are associated with or related to Generation activities to the assets referred to in Para I to III above.

4. Other current assets to the extent they are associated with or related to Generation activities or to the assets referred to in Para I to III above.

5. Other Current liabilities and provisions to the extent they are associated with or related to Generation activities or to the Assets referred to in Para I to III above.

6. Contingent liabilities to the extent they are recognised and are associated with or related to Generation activities or to the Assets referred to in Para I to III above.

7. Other liabilities to the extent they are associated with or related to Generation activities or to the Assets referred to in Para I to III above.

8. Obligations and Proceedings to the extent they are associated with or related to Generation activities or to the Assets referred to in Para I to III above.

V. In consideration of the transfer as mentioned above, the Generation Company shall issue 248401900 shares of face value of Rs 1000/- each to the Holding Company.

PART-IIA]

THE GAZETTE OF MEGHALAYA, (EXTRAORDINARY) MARCH 31, 2010

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PART - II

Aggregate Assets and Liabilities to be vested in the Generation Company

As on 1.04.08 (Figures in Rs. Lakhs)		Generation
NET ASSETS		
	Gross Block	28648.63
	Less: Accumulated Depreciation	11408.74
1	Net Fixed Assets	17239.89
2	Capital Expenditure in Progress	46402.62
3	Assets not in use	
4	Deferred cost	
5	Intangible Assets	0.00
6	Investments	2089.63
7	Net Current Assets	5503.12
	Total Current Assets	1593.82
	Stocks	0.00
	Receivables against supply of Power	670.33
	Cash & Bank balances	208.76
	Loans & Advances	3030.20
	Sundry receivables	3413.49
	Less: Total Current Liabilities	0.00
	Security Deposit from customers	0.00
	Other current liabilities	0.00
	Liabilities for purchase of power	834.49
	Liabilities for capital supplies/works	197.93
	Liabilities for O & M Supplies/works	0.00
	Staff related liabilities & Provisions	1070.58
	Deposits & retention from suppliers & contractors	0.00
	Provision for Pension Payments	0.00
	Electricity duties & other levies	990.36
	Liabilities for expenses	320.13
	Other liabilities & provisions	0.00
	Deposits for electrification service connections	0.00
	Provision for I. TAX/FBT	0.00
8	Subsidy receivable from Government	65732.14
	TOTAL ASSETS	
FINANCED BY		
		130.76
9	Borrowings for working capital	2539.18
10	Payment due on Capital Liabilities	38222.02
11	Capital Liabilities	24840.19
12	Equity Capital from MeECL/GoMe	0.00
13	Contributions, Grants and subsidies towards cost of capital assets	0.00
14	Reserve & Reserve funds	0.00
15	Surplus/(deficit)	0.00
	TOTAL FUNDS	65732.15

SCHEDULE - 'C'

(See Clause 4(1) (c))

PART - I**TRANSMISSION COMPANY**

The Transmission Company shall comprise of all the Assets, Liabilities including all rights, obligations, contingencies and proceedings belonging to Meghalaya State Electricity Board (MeSEB) concerning Transmission of electricity including but not limited to the following:

I. TRANSMISSION ASSETS:

All the transmission lines having the capacity to carry electricity at voltages of 66 kV and above (not withstanding the same are presently charged at voltages below 66 kV) on double circuit/single circuit/ single circuit on double circuit towers with Grid sub-stations of various capacities with all associated and related equipment, including step-up, step-down transformers, circuit breakers, metering arrangements and other protective devices with power-line communication system, allied control rooms, load dispatch center, lands (including right of way), buildings, roads and other auxiliary assets spread over within and outside the territory of the State including such assets under construction and assets acquired, transferred or rights of which were vested with the Board by transfer, sale, lease or otherwise, but excluding such constructions or installations lawfully owned and operated by others. In addition to the above, the 33 kV and below distribution system which are in the 66 kV and above Grid Sub-stations and are integral part of the transformation from 66 kV and above voltages to 33 kV and below voltages shall be part of the transmission system and they shall not form part of the distribution Division of MePGCL not withstanding anything contained in other schedules.

II. GENERAL ASSETS:

(a) The following, if they exclusively or primarily pertain to the above mentioned transmission systems properties or projects or activities related to such transmission systems, properties or projects: special tools and equipment, material handling equipment, earth movers, bulldozers, concrete mixtures, cranes, trailers, heavy and light vehicles, furniture, fixtures, office equipment, air conditioners, refrigerators, computers and signal systems, spares, consumables, raw materials, lands and civil works installations including roads, buildings, staff quarters, rest houses, properties and structures and their associated buildings, schools, dispensaries, testing laboratories and equipment.

training centers, workshops, works in progress, machinery and equipment sent for repairs, scraps and obsolete.

(b) The office establishment and other buildings and lands, not covered elsewhere in this schedule which are predominantly occupied/used for the activities of Transmission Company as on the effective date of transfer excluding however the assets specifically included in Schedule A&B.

III. MISCELLANEOUS:

1. Contracts, agreements, rights, interests and arrangements to the extent they are associated with or related to transmission activities or to the Division or assets referred to in Para I and II above.
2. Loans, secured and unsecured, to the extent they are associated with or related to transmission activities or to the Division or assets referred to in Para I and II above.
3. Cash and bank balance to the extent they are associated with or related to transmission activities or the Division or assets referred to in Para I and II above.
4. Other Current Assets to the extent they are associated with or related to transmission activities or to the Division or assets referred to in Para I and II above.
5. Other Current liabilities and provisions to the extent they are associated with or related to transmission activities or the Division or Assets referred to in Para I and II above.
6. Contingent liabilities to the extent they are recognised and are associated with or related to transmission activities or to the Division or Assets referred to in Para I and II above.
7. Other liabilities to the extent they are associated with or related to transmission activities or to the Division or Assets referred to in Para I and II above.
8. Obligations and Proceedings to the extent they are associated with or related to transmission activities or to the Division or Assets referred to in Para I and II above.

IV. . In consideration of the transfer as mentioned above, the Transmission Company shall issue 68609000 shares of face value of Rs 1000/- each to the Holding Company

PART - II

Aggregate Assets and Liabilities to be vested in Transmission Activity of MePTCL

As on 1.04.08 (Figures in Rs. Lakhs)		
NET ASSETS		Transmission
	Gross Block	
	Less: Accumulated Depreciation	5820.25
1	Net Fixed Assets	2801.55
2	Capital Expenditure in Progress	3018.70
3	Assets not in use	2824.08
4	Deferred cost	0.00
5	Intangible Assets	0.00
6	Investments	0.00
7	Net Current Assets	0.00
	Total Current Assets	1018.12
	Stocks	1330.77
	Receivables against supply of Power	501.07
	Cash & Bank balances	395.95
	Loans & Advances	27.11
	Sundry receivables	7.55
	Less: Total Current Liabilities	398.09
	Security Deposit from customers	312.65
	Other current liabilities	0.00
	Liabilities for purchase of power	0.00
	Liabilities for capital supplies/works	0.00
	Liabilities for O&M Supplies/works	141.59
	Staff related liabilities&Provisions	28.15
	Deposits & retention from suppliers & contractors	0.00
	Provision for Pension Payments	65.16
	Electricity duties & other levies	0.00
	Liabilities for expenses	0.00
	Other liabilities & provisions	60.27
	Deposits for electrification service connections	19.48
	Provision for I TAX/FBT	0.00
8	Subsidy receivable from Government	0.00
	TOTAL ASSETS	6860.90
	FINANCED BY	
9	Borrowings for working capital	0.00
10	Payment due on Capital Liabilities	0.00
11	Capital Liabilities	0.00
12	Equity Capital from MeECL/GoMe	0.00
13	Contributions, Grants and subsidies towards cost of capital assets	6860.90
14	Reserve & Reserve funds	0.00
15	Surplus/(deficit)	0.00
	TOTAL FUNDS	6860.90

SCHEDULE - 'D'

(See Clause 4(1) (d))

PART - I**HOLDING COMPANY**

The Holding Company shall comprise of all the assets, liabilities including all rights, obligations, contingencies and proceedings belonging to the Board which do not concern/ belong to Generation, Distribution and Transmission activities/divisions/companies and not otherwise included in Schedule "A", "B" and "C" and which are common in nature and used in the electricity activities of the Board including but not limited to the following:

I. COMMON/SHARED ASSETS:

(a) The office establishment and other buildings and lands, not covered elsewhere in this schedule which are predominantly occupied/used for the common activities as on the effective date of transfer and not otherwise included in Schedule "A", "B" and "C".

(b) Head Office building of the Board at Shillong including all independent and stand-alone Rest houses, which are not parts of any substations/installations of the Board and not otherwise included in Schedule "A", "B" and "C".

II. GENERAL ASSETS:

(a) All Old Power house office buildings, not covered elsewhere in this scheme, and their associated structures, surrounding land belonging to the Board, including other assets inherited by the Board from such Department of the State Government, and any un-utilised vacant land of the Board.

III. MISCELLANEOUS:

1. Contracts, agreements, rights, interests and arrangements to the extent they are associated with or related to common activities or not associated with Generation, Transmission and Distribution activities or assets referred to in Para I and II above.

2. Loans, secured and unsecured, to the extent they are associated with or related to common activities or not sustainable by Generation, Transmission and Distribution activities or assets referred to in Para I and II above.

3. Cash and bank balance to the extent they are associated with or related to common activities or not associated with Generation, Transmission and Distribution activities or assets referred to in Para I and II above.

4. Provident Fund, Pension Fund, Gratuity Fund and any other Funds based on servicing capability of the Company's of all the employees of MeECL including the employees deputed to MePDCL, MePGCL and MePTCL.

6. Other Current Assets to the extent they are associated with or related to common activities or not associated with Generation, Transmission and Distribution activities or assets referred to in Para I and II above.
8. Other Current liabilities and provisions to the extent they are associated with or related to common activities or not associated with Generation, Transmission and Distribution activities or Assets referred to in Para I and II above.
9. Contingent liabilities to the extent they are recognised and are associated with or related to common activities or not associated with Generation, Transmission and Distribution activities or Assets referred to in Para I and II above.
10. Other liabilities to the extent they are associated with or related to common activities or not associated with Generation, Transmission and Distribution activities or Assets referred to in Para I and II above.
11. Obligations and Proceedings to the extent they are associated with or related to common activities or not associated with Generation, Transmission and Distribution activities or Assets referred to in Para I and II above.
- VI. In consideration of the transfer as mentioned above, the State Government shall be issued 510760300 shares of face value of Rs 1000/- each in the Holding Company the MeECL.

PART - II

Aggregate of common Assets & Liabilities or Assets & Liabilities not associated with Generation & Distribution and Transmission activities to be vested in the Holding Company i.e. MeECL.

As on 1.04.08 (Figures in Rs. Lakhs)	
NET ASSETS	
	Holding Co.
Gross Block	500.00
Less: Accumulated Depreciation	100.00
1 Net Fixed Assets	400.00
2 Capital Expenditure in Progress	0.00
3 Assets not in use	0.00
4 Deferred cost	0.00
5 Intangible Assets	0.00
6 Investments	51885.61
7 Net Current Assets	-1209.58
Total Current Assets	144.50
Stocks	0.00
Receivables against supply of Power	0.00
Cash & Bank balances	0.00
Loans & Advances	63.11
Sundry receivables	81.38
Less: Total Current Liabilities	1354.08
Security Deposit from customers	0.00
Other current liabilities	0.00
Liabilities for purchase of power	0.00
Liabilities for capital supplies/works	0.00
Liabilities for O & M Supplies/works	0.00
Staff related liabilities & Provisions	0.00
Deposits & retention from suppliers & contractors	854.84
Provision for Pension Payments	0.00
Electricity duties & other levies	0.00
Liabilities for expenses	0.00
Other liabilities & provisions	0.00
Deposits for electrification service connections	0.00
Provision for I.TAX/FBT	699.24
8 Subsidy receivable from Government	0.00
TOTAL ASSETS	51076.03
FINANCED BY	
9 Borrowings for working capital	0.00
10 Payment due on Capital Liabilities	0.00
11 Capital Liabilities	0.00
12 Equity Capital from MeECL/GoMe	51076.03
13 Contributions, Grants and subsidies towards cost of capital assets	0.00
14 Reserve & Reserve funds	0.00
15 Surplus/(deficit)	0.00
TOTAL FUNDS	51076.03

SCHEDULE - 'E'
STATE GOVERNMENT

All residual assets and liabilities not part of Schedule "A", "B", "C" and "D" shall remain vested with the State Government.

SCHEDULE - 'F'

(See Clause 6 (2) (a))

ARRANGEMENTS FOR THE TRANSFER OF PERSONNEL TO MeECL AND FURTHER DEPUTATION TO THE DISTRIBUTION COMPANY (MePDCL)

Personnel belonging to the units of the Board along with its subordinate offices will stand transferred to MeECL and further deputed to **MePDCL -Distribution Company** on the effective date of transfer.

All personnel working with the distribution function of the board shall stand deputed to MePDCL from MeECL

SCHEDULE - 'G'

(See Clause 6 (2) (b))

ARRANGEMENTS FOR THE TRANSFER OF PERSONNEL TO MeECL AND FURTHER DEPUTATION TO THE GENERATION COMPANY (MePGCL)

Personnel belonging to the units of the Board along with its subordinate offices will stand transferred to MeECL and further deputed to **MePGCL - Generation Company** on the effective date of transfer.

All personnel working with the distribution function of the board shall stand deputed to MePGCL from MeECL

SCHEDULE - "H"

(See Clause 6 (2) (c))

**ARRANGEMENTS FOR THE TRANSFER OF PERSONNEL TO MeECL AND FURTHER
DEPUTATION TO THE TRANSMISSION COMPANY (MePTCL)**

Personnel belonging to the units of the Board along with its subordinate offices will stand transferred to MeECL and further deputed to **MePTCL - Transmission Company** on the effective date of transfer.

All personnel working with the distribution function of the board shall stand deputed to MePTCL from MeECL.

C. M. SYIEM,
Under Secretary,
Government of Meghalaya
Power Etc. Departments.

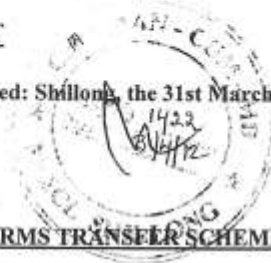
GOVERNMENT OF MEGHALAYA

POWER DEPARTMENT

NO:POWER-79/2009/440

Dated: Shillong, the 31st March, 2012

Notification



Amendment of " THE MEGHALAYA POWER SECTOR REFORMS TRANSFER SCHEME,2010"

In pursuant to the Notification no POWER-79/2009/290 dated 31st March,2010 and subsequent Notification dated 19th May, 2011 on the implementation of the Meghalaya Power Sector Reforms Transfer Scheme, 2010, the Meghalaya Energy Corporation Ltd (Holding Company) has done all the activities of its own and three other subsidiary companies during the financial year 2010-11 and 2011-12.

In accordance with sub-clause 2 of clause 7 of the Notification on the Meghalaya Power Sector Reforms Transfer Scheme 2010 dated 31st March 2010 , the Government of Meghalaya is hereby makes the following amendments to the above mentioned notified Scheme:

A. The Clause 5 of the Notification of Meghalaya Power Sector Reforms Transfer Scheme, 2010 is hereby substituted as follows:

" 5. Transfer of Assets , Liabilities , etc. by the State Government:-

1. (a) All Assets and Liabilities including all rights, obligations and contingencies except specified in **Schedule- "E"** shall stand transferred to and vest with MeECL on and from 1st April, 2010.
(b) Consequent to such transfer of Assets and Liabilities in MeECL, the company shall perform all the activities of Generation, Transmission and Distribution for the financial year 2010 - 11 and 2011 - 12.
2. (a) The Assets and Liabilities including all rights, obligations and contingencies shown in Para I, II and III of Part - I of **Schedule - "A"** shall stand transferred to and vest in MePDCL from MeECL on and from 01.04.2012 without any further act or thing to be done by MeECL or MePDCL or any other person.
(b) The transfer value of the Assets and Liabilities including all rights, obligations and contingencies shown in Para IV of Part - I and in Part - II of **Schedule - "A"** shall be derived from the duly Audited Accounts of the MeECL for the Financial year 2011-12 and to be notified with the value as on 01.04.2012 accordingly .
3. (a) The Assets and Liabilities including all rights, obligations and contingencies shown in Para I, II, III and IV of Part - I of **Schedule - "B"** shall stand transferred to and vest in MePGCL from MeECL on and from 01.04.2012 without any further act or thing to be done by MeECL or MePGCL or any other person.

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(b) The transfer value of the Assets and Liabilities including all rights, obligations and contingencies shown in Para V of Part - I and in Part - II of **Schedule - "B"** shall be derived from the duly Audited Accounts of the MeECL for the Financial year 2011-12 and to be notified with the value as on 01.04.2012 accordingly .

4.(a)The Assets and Liabilities including all rights, obligations and contingencies shown in Para I, II and III of Part - I of **Schedule - "C"** shall stand transferred to and vest in MePTCL from MeECL on and from 01.04.2012 without any further act or thing to be done by MeECL or MePTCL or any other person.

(b) The transfer value of the Assets and Liabilities including all rights, obligations and contingencies shown in Para IV of Part - I and in Part - II of **Schedule - "C"** shall be derived from the duly Audited Accounts of the MeECL for the Financial year 2011-12 and to be notified with the value as on 01.04.2012 accordingly .

5. (a) Assets and Liabilities including all rights, obligations and contingencies shown in Para I, II and III of Part - I of **Schedule - "D"** shall remain with MeECL on and from 01.04.2012 without any further act or thing to be done by MeECL.

(b) The valuation of the Assets and Liabilities including all rights, obligations and contingencies shown in Para IV of Part - I and in Part - II of **Schedule - "D"** shall be derived from the duly Audited Accounts of the MeECL for the Financial year 2011-12 and to be notified with the value as on 01.04.2012 accordingly ."

- B. The Clause 6(3)(a) of the above mentioned notified scheme is hereby substituted by the following:

"The personnel classified in **Schedule - "F"** pertaining to Distribution activities shall stand deputed to MePDCL".

- C. The Clause 6(3)(b) of the above mentioned notified scheme is hereby substituted by the following:

"The personnel classified in **Schedule - "G"** pertaining to Generation activities shall stand deputed to MePGCL".

- D. The word 'transfer' used in first line of the clause 6(4) of the above mentioned notified scheme is hereby replaced by the word 'Deputation' . The line shall be read as " On such Deputation and subject"."

- E. The sentence written within the Box under Schedule "G" of the above mentioned notified scheme is hereby substituted by the following:

All personnel working with the Generation Function of the Board shall stand deputed to the MePGCL from MeECL

- f. The sentence written within the Box under Schedule "H" of the above mentioned notified scheme is hereby substituted by the following:

All personnel working with the Transmission Function of the Board shall stand deputed to the MePTCL from MeECL



(B.K. DEV VARMA)
Additional Chief Secretary to the Government of Meghalaya,
Power Department.

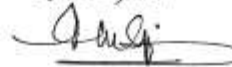
Memo No. PE-79/2009/440-A

Dated: 31st March, 2012

Copy to:-

1. P.S to Minister (Power), Government of Meghalaya
2. P.S to Chief Secretary, Government of Meghalaya
3. ~~3.~~ CMD, MeECL, Shillong w/r to MeECL/GA/302/2009/Pt.I/34, dt.24-3-12.
4. Accountant General, Meghalaya, Shillong
5. Chairman, MSERC, Shillong

By Order, etc.,



Under Secretary to the Government of Meghalaya,
Power Department



MEGHALAYA POWER GENERATION CORPORATION LIMITED

Corporate Office: Lum jingshal, Short Round Road, Shillong-793001

RELEVANT EXTRACTS OF THE MINUTES OF THE MEETING OF THE BOARD OF DIRECTORS OF MEGHALAYA POWER GENERATION CORPORATION LIMITED HELD ON THURSDAY THE 6TH DAY OF DECEMBER, 2012 AT 5-30P.M. IN THE OFFICE OF THE CHIEF SECRETARY, GOVERNMENT OF MEGHALAYA, AT THE SECRETARIAT BUILDING, MEGHALAYA, SHILLONG-1

APPROVAL ON THE GENERATION TARIFF PETITION

“Resolved that the Board of Directors of the Company be and is hereby approved the Generation Tariff Petition for the year 2013-14 with necessary modification and Annual Revenue Requirement (ARR) amounting to Rs. 301.11 crore(appx.).

Resolved further that the Board be and is hereby approved the proposal for approaching to the Hon’ble Meghalaya State Electricity Regulatory Commission for extension of time up to 14th December, 2012 for filing the above petition.

Resolved further that the Board of Directors of the Company be and is hereby authorized Shri. A. Lyngdoh, Superintending Engineer (P&M), O/o Director (Generation) to sign and submit the Tariff Petition 2013-14 before the Hon’ble Meghalaya State Electricity Regulatory Commission along with applications, affidavits and any other necessary documents as required in this regard time to time for and on behalf of the Company.

Resolved further that the Board of Directors be and is hereby approved the fees of Rs. 951000/- (Rupees Nine Lac Fifty One thousand only) for filing the above petition before the said Hon’ble State Regulatory Commission.

CERTIFIED TO BE TRUE COPY
FOR MEGHALAYA POWER GENERATION CORPORATION LTD

Director(Generation)



मेघालय MEGHALAYA

01AA 226343

BEFORE THE HON'BLE MEGHALAYA STATE ELECTRICITY REGULATORY
COMMISSION

FILE/PETITION NO.

IN THE MATTER OF:

APPROVAL OF ANNUAL REVENUE REQUIREMENT AND TARIFF OF THE
MEGHALAYA POWER GENERATION CORPORATION LIMITED (MePGCL) WITHIN
THE STATE OF MEGHALAYA FOR THE FINANCIAL YEAR 2013-14 UNDER
MEGHALAYA STATE ELECTRICITY REGULATORY COMMISSION
(DETERMINATION OF TARIFF) REGULATION 2011 AND UNDER SECTION-62
READ WITH SECTION 86 OF THE ELECTRICITY ACT 2003

AND IN THE MATTER OF

MEGHALAYA POWER GENERATION CORPORATION LIMITED, LUMJINGSHAI,
SHILLONG - 793001, MEGHALAYA

PETITIONER



Affirming and verifying the Petition

Mr. Amberlight Lyngdoh, aged 49 years, son of (L) H.R. Diengdoh, residing at
MeECL Colony, Umiam, P.O. Umiam, Ri-Bhoi District, do solemnly affirm and say as

follows:-

I am working as Superintending Engineer, Project & Monitoring, office of the Director (Generation), at Meghalaya Power Generation Corporation Limited (MePGCL), is the petitioner in the above matter and I am duly authorized to make this petition.

That the statement made in reply to the petition herein annexed and enclosed is based on information as derived from the records and I believe them to be true.



VERIFICATION

I solemnly affirm at Shillong on this 14th day of December 2012 that the contents of the petition are true to my knowledge and no part of it is false and no material has been concealed there from.

In acknowledgement thereof, I swear this affidavit before the Magistrate First Class, Shillong on this 14th day of December 2012

Identified by:


(Miss W. Khongjee)
Advocate


(Amberlight Lyngdoh)
Petitioner


Magistrate 1st Class,
Subordinate District Council Coo
Khasi Hill, Shillong