

Status of implementation of progress of reforms under National Tariff Policy 2006

(as per information received up to 31st March, 2015 in CEA)

REFORMS MONITORING UNIT PROFORMA

Name of the State: **ANDHRA PRADESH**

Status: For the quarter October-December, 2013

Reforms Measures as per provisions of National Tariff Policy, 2006

Status of Northern Power Distribution Company of A.P. Limited vide Letter No. CGM/E.A,IPC&RAC/NPDCL/WGL/RAC/F.CEA/D.No.539/13 dated 05.03.2014

NATIONAL TARIFF POLICY - 2006						
SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
9.(a)	<p>Procurement of Power through competitive bidding</p> <p>(i) Present power requirement (in MW) of the State</p> <p>(ii) Power requirement (in MW) of the State as on 06.01.2011</p> <p>iii) Increase in Demand (in MW) since 06.01.2011 (i – ii)</p> <p>iv) Whether all this increase in demand since 06.01.2011 is being met through competitive bidding route? (Yes/ No)</p> <p>v) If not, then what % of this increase in demand since 06.01.2011 is being met through competitive bidding route?</p> <p><u>Transmission</u></p> <p>(i) Total transmission capacity added (in MW) in the State after 6.1.2011</p> <p>(ii) Transmission capacity added through competitive bidding route (in MW) in the State after 6.1.2011</p> <p>iii) percentage of transmission capacity added (in MW) through competitive bidding out of total transmission capacity added in the State after 6.1.2011.</p>	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	<p>(i) 2092 MW (APNPDCL)</p> <p>(ii) 1556 MW (APNPDCL)</p> <p>(iii) 536 MW (APNPDCL)</p> <p>(iv) Power procurement of 550 MW through Case-1 bidding was finalized and scheduled to receive from 16th June 2013 to May 2016. 400 MW power delivery started from 14.08.2013.</p> <p>Short term power purchase of above 2000 MW RTC is being procured by all Discoms through bidding process.</p> <p>Procurement of Power through Case-II bidding is under documentation process.</p>	

(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission/ CERC		14% rate of return for Transmission business. 16% rate of return on normative equity for Distribution & Retail Supply business.
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		<div>The matter is still under implementation stage.</div> <div>The debt restructuring and incentivizing suitably on reduction of debt still can't be introduced under the prevailing conditions such as shortage of power supply and increasing supply demand energy gap and procurement of costly power through outside sources and power exchanges.</div>
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission		Yes, APERC has issued the norms to suit the conditions relevant to MYT regime which is effective from 01.04.2006 onwards. The suitable modifications to the voltage-wise distribution losses were also modified duly considering the working conditions and the submission from the licensees to upward revision of losses in a lenient manner.
(e)	Multi Year Tariff (MYT) i) Has SERC introduced MYT?	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	Yes, APERC has introduced Multi-Year-Tariff framework and notified Regulation 4 of 2005 (Terms and Conditions for Determination of Tariff for Wheeling and Retail Sale of Electricity) on 14 th November 2005 and MYT is effective from FY 2006-07 onwards. Presently, 2 nd Control period in MYT from FY 2009-10 to FY 2013-14 is in progress.
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?				APERC is evaluating the performance standards of Licensees through Regulatory Information Management System (RIMS) a software package.
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?				As per the existing provisions, the licensees shall have to file the Resource Plan which contains the sales forecast, load forecast, power procurement plan and capital investment plan. The investment approvals are accorded with due consideration of the above resource plans.

	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				The uncontrollable costs covers a) cost of power purchase and b) taxes on incomes. APERC would allow the financial costs, if any, on account of the time gap between the times when the true-up becomes due and when actually allowed.
(f)	Benefits under Clean Development Mechanism (CDM) i) Are CDM costs allowed as a pass through in tariff?	Clause 5.3(i) of NTP	State Power Department		CDM costs are not allowed as a pass through in tariff.
	ii) No. of cases that have been granted for CDM benefits till dated.				There are no such cases which have been granted or CDM benefits.
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		Electricity Duty @ 6 paise per unit is being collected for all categories except Agriculture and Central Govt. services on sale of or consumption of electricity.
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	State level Availability Based Tariff (ABT) is not introduced and not in operation.
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				Not yet implemented.
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				Not yet introduced. However, APERC has introduced differential (ToD) rates of Energy charges for peak and off-peak hours applicable for HT-I(A) Industrial, HT-II Others, HT-III Aviation activity at airports during 6 pm to 10 pm for better management of load.
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		Yes, APERC notified Regulation 4 of 2005 (Terms and conditions for determination of tariff for wheeling and retails sale of electricity) on 14.11.2005.
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission/ CERC	1.4.2006	Yes, fixed 5% as Renewable Power Purchase Obligation (RPPO) vide orders dated 27.09.2005 in O.P.No.09 of 2005 and vide orders dated 31.03.2009 in O.P.No.16 of 2008. APERC notified on 21 st March 2012 Regulation 1 of 2012 ' <i>Renewable Power Purchase Obligation (Compliance by Purchase of Renewable</i>

						<i>energy/Renewable Energy Certificates)' w.e.f. 1st April 2012.</i>
	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				Yes, fixed 0.25% solar specific renewable power purchase obligation (RPPO) vides orders dated 06.07.2010 in O.P. No.10 of 2010.	
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				Not yet taken up.	
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months		
10.	TRANSMISSION					
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006		
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year		
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	CERC regulation on the subject matter is under examination of the Commission.	
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		Implemented. Meters compatible to ABT and ToD tariff has been installed at G<>T & T<>D.	
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		To be complied.	

(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		Complied. APERC notified Regulation 1 of 2007 (Transmission Licensee Standards of Performance) which came into force on 31 st January 2007.
11.	DISTRIBUTION				
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	Yes, APERC is scrutinizing the financial & technical data submitted by the Licensees in their ARR & Retail Supply Tariff filings.
(b)	i) Present AT & C losses (in %) ii) Previous year AT & C losses (in %) iii) Reduction in AT&C Losses over previous year (in %)	Clause 8.2.1(2) of NTP	Appropriate Commission		
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		
	ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?				
(d)	<u>Reduction in cross subsidy</u> i) Whether tariff to all consumers is within + 20% of average cost of supply including agriculture consumer? ii) Whether tariff to all consumers is within + 20% of average cost of supply excluding agriculture consumer?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	
(e)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		yeYes
(f)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		As per Tariff Order 2013-14 the category – wise Cost of Service and Tariff was submitted vide Lr.D.No.161/13, Dt.08.07.2013.
(g)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		1) NPDCL has engaged 50 Nos. Private Accounting Agencies (PAAs) or spot billing and revenue collection purpose under revenue collection based franchisee. 2) NPDCL has appointed 2429 Junior Linemen (JLMs) were initially on contract basis for one year period (towards meeting the requirement of Franchisees) were subsequently regularized to look after the needs of consumers in rural areas in 2007-08 & 2011-12 under O&M franchisee.
(h)	Introduction of two part tariff and time differentiated tariff for large consumers (1	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	Yes, under implementation.

	MW and above consumer)				
(i)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		As per Clause 8.4(2) of National Tariff Policy allocation of PPA with generating companies to the 4 Discoms is being looked after by the State Govt. APPCC/ Vidyuth Soudha/ Hyderabad.
(j)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		Incentivization is not required as all the services except Agricultural services are metered.
(k)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		Provided as per Regulation.

REFORMS MONITORING UNIT PROFORMA

Name of the State: Arunachal Pradesh

Status: For the Financial Year 2013-14

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by State Electricity Regulatory Commission, Arunachal Pradesh vide Letter No. APSERC/RA-1/FOR/2014-15/157, dated 05.06. 2014

NATIONAL TARIFF POLICY - 2006						
SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
9.(a)	<p>Procurement of Power through competitive bidding</p> <p>(i) Present power requirement (in MW) of the State</p> <p>(ii) Power requirement (in MW) of the State as on 06.01.2011</p> <p>iii) Increase in Demand (in MW) since 06.01.2011 (i – ii)</p> <p>iv) Whether all this increase in demand since 06.01.2011 is being met through competitive bidding route? (Yes/ No)</p> <p>v) If not, then what % of this increase in demand since 06.01.2011 is being met through competitive bidding route?</p> <p><u>Transmission</u></p> <p>(i) Total transmission capacity added (in MW) in the State after 6.1.2011</p> <p>(ii) Transmission capacity added through competitive bidding route (in MW) in the State after 6.1.2011</p> <p>iii) percentage of transmission capacity added (in MW) through competitive bidding out of total transmission capacity added in the State after 6.1.2011.</p>	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	<p>Data not available. May be provided by the Deptt. of Power, Govt. of Arunachal Pradesh which looks directly on this aspect.</p> <p>-Do-</p>	
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission/ CERC		14%	

©	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		114.85 cr. (interest on loan)	
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission		Necessary regulation on supply code is already in place.	
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	Yes. Regulation notified w.e.f. Oct, 2013	
	i) Has SERC introduced MYT?				Not applicable. Petition under MYT not yet filed.	
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?				Not applicable in view of above.	
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?				Not applicable in view of above.	
(f)	Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.	Clause 5.3(i) of NTP	State Power Department			
	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.					
(g)	Benefits under Clean Development Mechanism (CDM)	Clause 5.3(i) of NTP	State Power Department			
	i) Are CDM costs allowed as a pass through in tariff?					
(h)	ii) No. of cases that have been granted for CDM benefits till dated.	Clause 5.4 of NTP	State Govt			
	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?					
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	Yes.	
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				Yes.	

	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				No.	
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		Not done yet.	
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission/ CERC	1.4.2006	Necessary regulation is notified and an RPO target is fixed.	
	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				0.1% by 2012-13	
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				No.	
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months		
10.	TRANSMISSION					
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006		
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year		
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	Exact data not available in SERC	

	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		Metering as per ABT requirement is available but without time of day facility.	
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		Transmission tariff petition is yet to be filed by Department of Power, GoAP.	
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		No.	
11.	DISTRIBUTION					
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	Yes, to the extent data provided by Department of Power, A.P.	
(b)	i) Present AT & C losses (in %) ii) Previous year AT & C losses (in %) iii) Reduction in AT&C Losses over previous year (in %)	Clause 8.2.1(2) of NTP	Appropriate Commission		56% 58% 2%	
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories? ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		Yes. Govt. gives budgetary support to the Department of Power.	
(d)	Reduction in cross subsidy i) Whether tariff to all consumers is within +_20% of average cost of supply including agriculture consumer? ii) Whether tariff to all consumers is within +_20% of average cost of supply excluding agriculture consumer?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	Average cost of supply for FY 2013-14 as per approved ARR is 13.03 per unit. Highest tariff is for public light which is Rs.5.10/unit. Lowest tariff is for ATP & BPL and Agriculture which is Rs.2.65/ unit (the difference is borne by the State Govt. through Budgetary support)	
(e)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		LT – Rs.3.10/unit HT + 1KV – 2.75/unit, 33 KV – 2.65/unit	
(f)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt			
(g)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs			
(h)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	Yet not implemented	

(i)	PPA with generating company	Clause 8.4(2) of NTP	State Govt			
(j)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		Yes, a rebate of 2% is allowed for timely payments.	
(k)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		No separate tariff filed for power supply by any standby arrangements.	

REFORMS MONITORING UNIT PROFORMA

Name of the State: **ASSAM**

Status: Financial Year 2013-14

Reforms Measures as per provisions of National Tariff Policy, 2006

Status of Assam Electricity Regulatory Commission vide Letter No. AERC/CEA/RMU/2011-12/365/Pt I/2 dated 03.06.2014

NATIONAL TARIFF POLICY – 2006					FY 2013-14	
SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
9.(a)	Procurement of Power through competitive bidding (i) Present power requirement (in MW) of the State (ii) Power requirement (in MW) of the State as on 06.01.2011 (iii) Increase in Demand (in MW) since 06.01.2011 (i – ii) (iv) Whether all this increase in demand since 06.01.2011 is being met through competitive bidding route? (Yes/ No) (v) If not, then what % of this increase in demand since 06.01.2011 is being met through competitive bidding route? <u>Transmission</u> (i) Total transmission capacity added (in MW) in the State after 6.1.2011 (ii) Transmission capacity added through competitive bidding route (in MW) in the State after 6.1.2011 (iii) percentage of transmission capacity added (in MW) through competitive bidding out of total transmission capacity added in the State after 6.1.2011.	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11		To be provided by the Discom.
						To be provided by AEGCL.
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission/ CERC			14%

(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission			The Commission encourages debt structuring in a manner as recommended by the Tariff Policy so that the tariff is reduced.
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission			The operating norms for distribution network were notified in the various regulations notified by the Commission like the Supply Code Regulations, Procedures for grant of distribution licence Regulations and Distributions Licensees' Standards of Performance Regulations.
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06		Yes
	i) Has SERC introduced MYT?					No.
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?					No
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?					No
	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.					The Commission notified the AERC (Fuel and Power Purchase Adjustment Formula) Regulations 2010 to recover uncontrollable cost speedily. Fuel and Power Purchase Adjustment are done quarterly as per the Regulations.
(f)	Benefits under Clean Development Mechanism (CDM)	Clause 5.3(i) of NTP	State Power Department			i) No CDM cost has been claimed in tariff so far.
	i) Are CDM costs allowed as a pass through in tariff?					
	ii) No. of cases that have been granted for CDM benefits till dated.					ii) Not Applicable.
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt			Yes

(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006		Yes
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);					ii) Applicable for Central sector generators only. Not yet extended to state run generators.
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.					iii) TOD tariff is in force since 1998.
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission			Notified in Tariff Order issued on 21.11.2013.
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission/ CERC	1.4.2006		i) Done. RPO regulations notified in 2010.
	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;					ii) As per the AERC RPO Regulations, 0.05 % out of the renewable purchase obligation specified in the year 2010-11 shall be procured from generation based on solar as renewable energy source and shall be increased at a rate of 0.05 percentage every year thereafter till 2014-15 or until reviewed by the Commission.
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;					iii) The AERC Tariff Regulations 2006 provides for procurement of power through competitive bidding.
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months		iv) Not applicable
10.	TRANSMISSION					

(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006		i) Not applicable
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year		ii) Not applicable
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation		iii) Not yet done
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission			iv) ABT compliant meters installed.
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission			Not done
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission			Notified in the AERC (Transmission Licensees' Standards of Performance) Regulations.
11.	DISTRIBUTION					
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007		Yes. The Commission conducts annual Performance Review and truing up of the financial and technical parameters during tariff revision.
(b)	i) Present AT & C losses (in %) ii) Previous year AT & C losses (in %) iii) Reduction in AT&C Losses over previous year (in %)	Clause 8.2.1(2) of NTP	Appropriate Commission			To be provided by the Discom
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission			i) Cross subsidized tariffs are provided to some categories of consumers considering their capacity to pay. However, cross subsidies are decreased gradually as stipulated in the Electricity Act, 2003. In the MYT Order for FY 2013-16, for the

						first time State Government subsidy was provided in tariff for the Lifeline category – Jeevan Dhara and Domestic A category (upto connected load 4 KW having 4 units per day consumption).
	ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?					ii) Yes.
(d)	Reduction in cross subsidy i) Whether tariff to all consumers is within +_20% of average cost of supply including agriculture consumer? ii) Whether tariff to all consumers is within +_20% of average cost of supply excluding agriculture consumer?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11		i) Yes. ii) No.
(e)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission			There are separate categories for LT & HT Agriculture consumers in Assam. Besides, a separate affordable temporary connection rate for Agriculture was introduced for those rural areas in tariff Order for FY 2008-10 where permanent agricultural connection is not feasible due to climatic conditions and other factors.
(f)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt			The Commission is trying to move towards cost of supply for different categories of consumers by gradually reducing cross subsidies. In The MYT Order 2013-16, the Commission attempted to limit the cross subsidy to $\pm 20\%$ of the average cost of supply in determining the tariffs to different categories of consumers as per guidelines in the Tariff Policy.
(g)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs			As per data available upto September 2013, Feeder selected (11 KV) =87, Agreement in force =22, LOI issued =11, under process- 09, MOU signed=37, DTRs handed over=6357. Latest information to be provided by the Discom.

(h)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year		Two part tariff is in force in the state since 1998. Two Tier TOD tariff was applicable since 1998 until three tier TOD tariff was introduced in Tariff Order 2005-06 for 4 categories of HT consumers.
(i)	PPA with generating company	Clause 8.4(2) of NTP	State Govt			Yes
(j)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission			<p>All consumers in the state are metered. However, for HT consumers, for supply at voltages higher than as applicable to the consumers as per sec 2.2 of the AERC (Electricity Supply Code and related matters) Regulations, 2004, as amended from time to time, rebate @ 3% shall be applicable on energy consumption for each higher level of voltage.</p> <p>In case, metering is done on the L.T. side of the distribution transformer for a group of consumers receiving power, then for the purpose of billing additional energy consumption on account of transformer loss computed @ 3% on the consumer's Energy Charges shall be added.</p>
(k)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission			Tariff for Standby arrangement has not been notified in MYT Oder 2013-16.

REFORMS MONITORING UNIT PROFORMA

Name of the State: BIHAR

Status: For the quarter October-December, 2012

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by Bihar State Power (Holding) Company Ltd.. vide letter No.Com/Misc-17/2010(Part-I)/3203 dated 31.12.2012

SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
NATIONAL TARIFF POLICY - 2006						
9.(a)	Procurement of Power through competitive bidding	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	Yes, for Generation Projects. Case-I Bidding=1010 MW (450 MW from July 2014 & 560 MW from November 2015)	
	(i) Generation projects through competitive bidding Case-1 and Case-2 till date					
	(ii) Transmission Projects through competitive bidding (Case-2) till date					
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission / CERC			To be furnished by BERC
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission			To be furnished by BERC
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission			To be decided by BERC
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	-	
	i) Has SERC introduced MYT?					
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?					To be done by BERC
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?					To be done by BERC

	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				To be done by BERC	
(f)	Benefits under Clean Development Mechanism (CDM) i) Are CDM costs allowed as a pass through in tariff?	Clause 5.3(i) of NTP	State Power Department		No	
	ii) No. of cases that have been granted for CDM benefits till dated.				Nil	
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		Yes, uniform and not selectively imposed.	
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	No	
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				No	
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				Yes	
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		Yes	
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission / CERC	1.4.2006	Yes	Fixed by BERC

	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				Yes	Fixed by BERC
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				No	Not introduced in Bihar
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months	Yes	
10.	TRANSMISSION					
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006		
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year		
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	No	
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		HT consumers with C.D. 200 KVA and above	
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		No [To be decided by BERC]	
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission			

11.	DISTRIBUTION						
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	Yes		
(b)	Levels of consumer tariff	Clause 8.2.1(2) of NTP	Appropriate Commission		Within (+) & (-) 20% of cost of supply		
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		No		
(d)	ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?				No		
(e)	Cost of supply Whether tariff to all consumers is within +_20% of average cost of supply?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	Yes		
(f)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		Subsidized below cost of supply		
(g)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		No		
(h)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		Yes		
(i)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	Yes		
(j)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		Yes	Details of the PPA signed is enclosed as Annexure-V(B) Restructuring is under process	
(k)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		No		
(l)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		No	To be determined by BERC	

REFORMS MONITORING UNIT PROFORMA

Name of the Union Territory: **CHANDIGARH U.T.**

Status: For the Financial Year 2013-14

Reforms Measures as per provisions of National Tariff Policy, 2006

Status of U.T. of Chandigarh vide Letter No. SEE/OP/S-II/141 dated June, 2013 and No.32/4/2011-JERC/462 dated 25.07.2014

SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
NATIONAL TARIFF POLICY – 2006						
9.(a)	<p>Procurement of Power through competitive bidding</p> <p>(i) Present power requirement (in MW) of the State</p> <p>(ii) Power requirement (in MW) of the State as on 06.01.2011</p> <p>iii) Increase in Demand (in MW) since 06.01.2011 (i – ii)</p> <p>iv) Whether all this increase in demand since 06.01.2011 is being met through competitive bidding route? (Yes/ No)</p> <p>v) If not, then what % of this increase in demand since 06.01.2011 is being met through competitive bidding route?</p> <p><u>Transmission</u></p> <p>(i) Total transmission capacity added (in MW) in the State after 6.1.2011</p> <p>(ii) Transmission capacity added through competitive bidding route (in MW) in the State after 6.1.2011</p> <p>iii) percentage of transmission capacity added (in MW) through competitive bidding out of total transmission capacity added in the State after 6.1.2011.</p>	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	<p>i) 353 MW (peak Demand) in the FY 2013-14</p> <p>ii) 323 MW (peak Demand) in the FY 2010-11</p> <p>iii) There is increase of 30 MW</p> <p>iv) Yes.</p>	The Power is being procured on long term basis after the approval of the Commission.
					<p>i) Nil</p> <p>ii) Nil</p> <p>iii) Nil</p>	
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission / CERC		NA	

(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		NA	
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission		NA	
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	Yes	MYT has been introduced by the JERC in the FY 2014-15
	i) Has SERC introduced MYT?					
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?				Not yet finalized	
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?				Not yet finalized	--
	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				The FPPCA regulation have already been notified by the Commission.	
(f)	Benefits under Clean Development Mechanism (CDM)	Clause 5.3(i) of NTP	State Power Department		NIL	
	i) Are CDM costs allowed as a pass through in tariff?					
	ii) No. of cases that have been granted for CDM benefits till dated.					
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		Electricity duty for sale of power is uniform.	
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	Intrastate ABT not yet introduced in UT Chandigarh	--

	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				NA	
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				The Hon'ble JERC in the tariff order for the FY 2013-14 has directed to inform the time bound action plan for installation of TOD meters.	
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		Wheeling charges have been determined by the Commission for the FY 2013-14.	
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission / CERC	1.4.2006	Already provided in the regulation.	
	Already provided in the regulation.					
	--				--	
	iv) Laying of guidelines by CERC for pricing non-firm power especially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months	--	--
10.	TRANSMISSION					
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006	NA	--

	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year	NA	--
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	NA	--
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		NA	--
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		--	--
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		--	--
11.	DISTRIBUTION					
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	--	--
(b)	i) Present AT & C losses (in %) ii) Previous year AT & C losses (in %) iii) Reduction in AT&C Losses over previous year (in %)	Clause 8.2.1(2) of NTP	Appropriate Commission		--	--
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		--	--
	ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?				NA	
(d)	<u>Reduction in cross subsidy</u> i) Whether tariff to all consumers is within +_20% of average cost of supply including agriculture consumer? ii) Whether tariff to all consumers is within +_20% of average cost of supply excluding agriculture consumer?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	Yes	
(e)	Tariff for Agricultural use	Clause 8.3(3) of	Appropriate		--	--

		NTP	Commission			
(f)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		MYT regulation has recently been approved by JERC on 30.05.2014 and CED is under progress to file MYT petition for the control period 2015-18 to JERC.	
(g)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		NIL	
(h)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	Not yet finalized	
(i)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		--	--
(j)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		--	--
(k)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		Not yet finalized	

REFORMS MONITORING UNIT PROFORMA

Name of the State: Chhattisgarh

Status: For the quarter September-December, 2014

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by Chhattisgarh State Power Distribution Co Ltd. vide Letter No. 02-02/SE-III/AE-Rev/1/Vol-I/4099, dated 03.03. 2015

NATIONAL TARIFF POLICY - 2006						
SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
9.(a)	<p>Procurement of Power through competitive bidding</p> <p>(i) Present power requirement (in MW) of the State</p> <p>(ii) Power requirement (in MW) of the State as on 06.01.2011</p> <p>iii) Increase in Demand (in MW) since 06.01.2011 (i – ii)</p> <p>iv) Whether all this increase in demand since 06.01.2011 is being met through competitive bidding route? (Yes/ No)</p> <p>v) If not, then what % of this increase in demand since 06.01.2011 is being met through competitive bidding route?</p> <p><u>Transmission</u></p> <p>(i) Total transmission capacity added (in MW) in the State after 6.1.2011</p> <p>(ii) Transmission capacity added through competitive bidding route (in MW) in the State after 6.1.2011</p> <p>iii) percentage of transmission capacity added (in MW) through competitive bidding out of total transmission capacity added in the State after 6.1.2011.</p>	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	<p>i) 3645 MW</p> <p>ii) 2702 MW</p> <p>iii) 943 MW</p> <p>iv) No</p> <p>v) 10%</p>	Not applicable as DISCOM of Chhattisgarh has already tied up for procurement of power for 11 th and 12 th Five Year Plan
					<p>i) 1380 MVA</p> <p>ii) Nil</p> <p>iii) Nil</p>	<p>i) Total Transmission Capacity of CSPTCL as on 30.09.2014 is 5550MVA</p> <p>ii) –</p> <p>iii) --</p>
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission/ CERC		16%	
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		11.70% (144.79 Crs.)	

(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission		28% (33 KV & below system) Distribution Loss
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	Yes. Multi-Year Tariff regulation was already notified on 25.06.2008.
	i) Has SERC introduced MYT?				Yet to be conducted.
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?				Commission approves Capital Investment plans of the utility after detailed analysis of investment plans. For the purpose of detailed analysis, commission takes assistance of consultant.
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?				For ensuring that future consumers are not burdened with past costs, commission has adopted fuel cost adjustment and variable cost adjustment mechanism as specified in NTP.
(f)	Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.	Clause 5.3(i) of NTP	State Power Department		Yet to be decided by the State Government
	iv) Benefits under Clean Development Mechanism (CDM)				
(g)	i) Are CDM costs allowed as a pass through in tariff?	Clause 5.4 of NTP	State Govt		
	ii) No. of cases that have been granted for CDM benefits till dated.				--
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		Implemented in State.
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	No. Availability based tariff has not been introduced in the State
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				ABT metering covers all CPP, IPP & Biomass and others as per CEA's Installation & Operation of meters regulation – 2006

	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				TOD tariff implemented in the state for differential rates of energy charges.
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		State Regulatory Commission already determined the wheeling charges for intra and interstate OA
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission/ CERC	1.4.2006	Already fixed by CSERC
	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				Already fixed by CSERC
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				Adopted by CSPDCL as per CSERC guidelines.
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months	CSERC already issued guidelines in this regard
10.	TRANSMISSION				
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006	In the CSERC MYT order FY 2013-14 Hon'ble CSERC has mentioned that the commission has also been guided by the National Electricity Policy (NEP), 2005 and Tariff Policy, as mandated under the provision of the Act. Accordingly the commission has approved ARR of CSPTCL for FY 2012-13 and tariff for the Open Access customers for FY 2012-13
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year	CSPTCL is developing its transmission network as per the business plan approved by CSERC. The latest business plan for MYT period 2013-16 has been approved by CSERC on dt. 09.04.2013 and is under implementation.
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	CSPTCL is complying CSERC grid code 2011 to ensure efficient intra state transmission network

	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		Open access applicant is considered only after having ABT metering facilities.
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		CSERC has approved 4.50% transmission losses for CSPTCL for the year 2012-13
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		CSERC has approved incentives in T.O. for 2012-13 for reduction in transmission losses according to its MYT tariff 2010 & 2012.
11.	DISTRIBUTION				
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	CSERC scrutinize technical & financial data time to time as per clause 8.2.1 (2) of NTP
(b)	i) Present AT & C losses (in %) ii) Previous year AT & C losses (in %) iii) Reduction in AT&C Losses over previous year (in %)	Clause 8.2.1(2) of NTP	Appropriate Commission		i) AT&C loss for FY 2014-15 is 29.40% (Prov.) (April to Sep 2014) ii) AT&C loss for FY 2013-14 is 28.39% iii) Reduction in AT&C loss from last year (-) 1.00%
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories? ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		CSERC considers subsidized tariff for relevant categories like DL&F, BPL, Agriculture, public services. No
(d)	<u>Reduction in cross subsidy</u> i) Whether tariff to all consumers is within +_20% of average cost of supply including agriculture consumer? ii) Whether tariff to all consumers is within +_20% of average cost of supply excluding agriculture consumer?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	i) The cross subsidy in present tariff (effective from 06.05.2012) is ranging from 41% and (-) 64% w.r.t. ACOS
(e)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		Average billing rate for agriculture category is Rs.1.46 per unit which is 36% of ACOS
(f)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		Yes, present applicable tariff reflects ACOS
(g)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		Revenue collection based franchisees has been appointed for 926 villages covering 83149 nos. of consumers. Division level/ circle level input based franchisees is under process.

(h)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	Two part tariff and time differentiated tariff for some categories of EHV & HV consumers are implemented in state.
(i)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		Yes done with state generating company
(j)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		Yes done, incentives based on load factor and power factor are given to HT consumers
(k)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		Yet to be done.

REFORMS MONITORING UNIT PROFORMA

Name of the Union Territory: **DADRA AND NAGAR HAVELI**

Status: Upto December, 2013

Reforms Measures as per provisions of National Tariff Policy, 2006

Status of Dadra and Nagar Haveli, Electricity Department vide Letter No. 1-1(568)/ELE/2011/2601 dated 05.08.2014

NATIONAL TARIFF POLICY - 2006						
SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
9.(a)	<p>Procurement of Power through competitive bidding</p> <p>(i) Present power requirement (in MW) of the State</p> <p>(ii) Power requirement (in MW) of the State as on 06.01.2011</p> <p>iii) Increase in Demand (in MW) since 06.01.2011 (i – ii)</p> <p>iv) Whether all this increase in demand since 06.01.2011 is being met through competitive bidding route? (Yes/ No)</p> <p>v) If not, then what % of this increase in demand since 06.01.2011 is being met through competitive bidding route?</p> <p><u>Transmission</u></p> <p>(i) Total transmission capacity added (in MW) in the State after 6.1.2011</p> <p>(ii) Transmission capacity added through competitive bidding route (in MW) in the State after 6.1.2011</p> <p>iii) percentage of transmission capacity added (in MW) through competitive bidding out of total transmission capacity added in the State after 6.1.2011.</p>	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	<p>DNH has procured 200 MW Power through Competitive Bidding. Present peak demand of the territory is 660 MW.</p> <p>420 MW Transmission Capacity has been added after 06.01.2011 (100 MVA at 220/66 KV S/S Kharadpada and 320 MVA at 220/66 KV new S/S at Khadoli.)</p>	<p>50 MW Power started from 1st April,2013. Another 50 MW from July,2013 and next 100 MW from October,2013. The Long Term Power Purchase Agreement entered in to for 7 years and 3 months with EMCO Energy Ltd.</p> <p>DNH has proposed for establishment of new 2x160=320 MVA, 220/66 KV Sub-station at Waghchhipa and Augmentation of 2x160 MVA Khadoli Sub-station to 3x160 MVA by adding 160 MVA Transmission Capacity.</p>
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission/ CERC		These factors are considered in Tariff Order of DNH issued by JERC time to time based on the ARR petition and Tariff proposal	These factors are considered in Tariff Order of DNH issued by JERC

					filed by DNH.	time to time based on the ARR petition and Tariff proposal filed by DNH.
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		These factors are considered in Tariff Order of DNH issued by JERC.	These factors are considered in Tariff Order of DNH issued by JERC.
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission		JERC has issued regulations for Distribution Code to be followed in State of Goa and all Union Territories including DNH.	JERC has issued regulations for Distribution Code to be followed in State of Goa and all Union Territories including DNH.
(e)	Multi Year Tariff (MYT) i) Has SERC introduced MYT?	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	JERC issued draft regulations for Multi Year Tariff for State of Goa and All Union Territories.	JERC issued draft regulations for Multi Year Tariff for State of Goa and All Union Territories.
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?				Under consideration by JERC	Under consideration by JERC
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?				Under consideration by JERC	Under consideration by JERC
	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				Under consideration by JERC	Under consideration by JERC
(f)	Benefits under Clean Development Mechanism (CDM) i) Are CDM costs allowed as a pass through in tariff?	Clause 5.3(i) of NTP	State Power Department		Under process	Under process

	ii) No. of cases that have been granted for CDM benefits till dated.				Under process	Under process
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		Under process	Under process
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	Yes	Yes
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				There is no any generating plant exist in this territory	There is no any generating plant exist in this territory
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				Not implemented. JERC will explore the possibilities.	Not implemented. JERC will explore the possibilities.
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		JERC has decided wheeling charges in the Tariff Order FY 2013-14.	JERC has decided wheeling charges in the Tariff Order FY 2013-14.
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission/ CERC	1.4.2006	JERC has issued regulations for procurement of New and Renewable Energy.	DNH has procured Non-Solar Certificates to meet with RPO obligations. Also plan for 3 MW Grid Connected Solar Generation
	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				JERC has issued regulations for procurement of New and Renewable Energy.	0.4 % solar power procurement.
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				Not done	Not done

	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months	Matter will be decided by JERC	Matter will be decided by JERC
10.	TRANSMISSION					
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006	POC tariff implemented in Western Region for Transmission Tariff.	POC tariff implemented in Western Region for Transmission Tariff.
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year	Decided by CERC	Decided by CERC
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	Decided by CERC	Decided by CERC
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		Decided by CERC	Decided by CERC
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		Decided by CERC	Decided by CERC
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		Decided by CERC	Decided by CERC
11.	DISTRIBUTION					
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	Done by JERC while issuing Tariff Order	Scrutinised by JERC
(b)	i) Present AT & C losses (in %) ii) Previous year AT & C losses (in %) iii) Reduction in AT&C Losses over previous year (in %)	Clause 8.2.1(2) of NTP	Appropriate Commission		10%	10%
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		No	No

	ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?				No	No
(d)	<u>Reduction in cross subsidy</u> i) Whether tariff to all consumers is within +_20% of average cost of supply including agriculture consumer? ii) Whether tariff to all consumers is within +_20% of average cost of supply excluding agriculture consumer?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	JERC has taken care while determining tariff	JERC has taken care while determining tariff
(e)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		JERC has taken care while determining tariff	JERC has taken care while determining tariff
(f)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		JERC has taken care while determining tariff	JERC has taken care while determining tariff
(g)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		No	No
(h)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	Introduced by JERC	Introduced by JERC
(i)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		Executed with NTPC, NSPCL and EMCO Energy Ltd.	JERC has approved PPA with EMCO Energy Ltd executed in 2013.
(j)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		Introduced by JERC	Introduced by JERC
(k)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		Will be taken up by JERC	Will be taken up by JERC

REFORMS MONITORING UNIT PROFORMA

Name of the State: DELHI

Status: For the quarter October-December, 2013

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by Delhi Electricity Regulatory Commission (DERC) vide Letter No. F.3(328)Tariff/DERC/2011-12/3203/5221 dated 5.12.2011 and Delhi Transco Limited vide letter No.Dir(Opr)/14-15/F-147/02 dated 09.04.2014

SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
NATIONAL TARIFF POLICY - 2006						
9.(a)	Procurement of Power through competitive bidding	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	BRPL: Generation projects through competitive bidding Case-1 and Case-2 are being done with only Sasan Project. (Letter dated 1.11.11)) NDPL: Case-1: Maithan Power Ltd Case-2: State specific: HPGCL Jhajjar Power Project with CLP Power India Ltd. (UMPP) Allocated: Sasan, Tilaiya, Sakshigopal (Odisha-1) (letter dated 18.7.11) BRPL: Transmission Projects through competitive bidding (Case-2) till date is not done. NDPL: (a) East-North Interconnection Company Ltd (Evacuation of NER/ER Power Project) (b) North Karanpura Transmission Company Ltd (Evacuation of North-Karanpura & other Power Projects)	
	(i) Generation projects through competitive bidding Case-1 and Case-2 till date					
	(ii) Transmission Projects through competitive bidding (Case-2) till date					
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission / CERC		@ 14%	
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		Yes, determined at the beginning of the control period after considering licensee's proposals, present cost of debt already contracted by the licensee, and other relevant factors (risk free returns, risk premium, prime lending rate etc).	
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission		Yes	Specified under MYT Regulations and subsequent TO
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	Yes	
	i) Has SERC introduced MYT?				No	
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?					

	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?				No	
	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				Yes	Fuel Price adjustment mechanism introduced vide order dated 26.08.11
(f)	Benefits under Clean Development Mechanism (CDM) i) Are CDM costs allowed as a pass through in tariff?	Clause 5.3(i) of NTP	State Power Department			
	ii) No. of cases that have been granted for CDM benefits till dated.					
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt			
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	Yes	since 1.04.2007
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				Yes	
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				No	
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		Yes	As per Tariff Orders issued from time to time.

(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission / CERC	1.4.2006		Vide tariff order 2009-10, Discoms have been advised to purchase 1% from NCES
					As per draft RPO/REC regulaations RPO of 0.15% has been taken for FY 2012-13)	
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months		
10.	TRANSMISSION					
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006		
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year		
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	Yes	
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		Yes	

(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		Not yet	The Commission has approved actual losses as submitted by STU for intra-state transmission
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		Yes	Availability RoCE etc.
11.	DISTRIBUTION					
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	The Commission has decided to frame Regulations for instituting a system of independent scrutiny of financial and technical data submitted by the licensees in line with the draft SERC compliance audit regulations for the regulated entities prepared by Forum of Regulators.	
(b)	Levels of consumer tariff	Clause 8.2.1(2) of NTP	Appropriate Commission		Yet to be implemented.	
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		Yes	
(d)	ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?				Yes	Quarterly basis
(e)	Cost of supply Whether tariff to all consumers is within +_20% of average cost of supply?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	Not yet	
(f)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		Fixed Charge Rs.15/KW/Month Energy Charges Rs 1.80/KWh	Uniform tariff throughout the state
(g)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt			
(h)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		NDPL: No such commercial arrangement exists. (18 July 2011 letter) BRPL: No Franchisees in Distribution License area. (September-11 quarter)	
(i)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	Two part tariff in place but ToD yet to be implemented.	
(j)	PPA with generating company	Clause 8.4(2) of NTP	State Govt			

(k)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		Almost 100% metering.	Discoms to bear loss on account of unmetered supply, if any
(l)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		Yes, as levied to consumers availing temporary connection.	Order dated. 29.08.08 Para 14(2)(vii)

REFORMS MONITORING UNIT PROFORMA

Name of the State: Goa

Status: For the Financial Year 2013-14

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by Electricity Department, Government of Goa vide letter No.43(Mon/Ref)/CEE/Tech/Plq/2014-15/503, dated 23.06. 2014 and letter No.43(Mon/Ref)/CEE/Tech/Plq/2014-15/725, dated 23.07. 2014

NATIONAL TARIFF POLICY - 2006						
SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
9.(a)	Procurement of Power through competitive bidding (i) Present power requirement (in MW) of the State (ii) Power requirement (in MW) of the State as on 06.01.2011 (iii) Increase in Demand (in MW) since 06.01.2011 (i – ii) (iv) Whether all this increase in demand since 06.01.2011 is being met through competitive bidding route? (Yes/ No) (v) If not, then what % of this increase in demand since 06.01.2011 is being met through competitive bidding route? <u>Transmission</u> (i) Total transmission capacity added (in MW) in the State after 6.1.2011 (ii) Transmission capacity added through competitive bidding route (in MW) in the State after 6.1.2011 (iii) percentage of transmission capacity added (in MW) through competitive bidding out of total transmission capacity added in the State after 6.1.2011.	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	540 MW	
					433 MW	
					107 MW	
					No	
					NA	
					430 MW	
					430 MW	
					Not found necessary yet.	
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission/ CERC		Being done by JERC	

(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission			
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission		Covered under Regulations of Supply Code and SOP	
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	MYT shall be introduced from the year 2014-15	
	i) Has SERC introduced MYT?				No separate study has been conducted	S.O.P. is analysed and found within the desired level
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?				Consultant appointed; under progress	
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?				Consultant appointed; under progress	
(f)	Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.	Clause 5.3(i) of NTP	State Power Department		Not yet done	
	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.					
(g)	Benefits under Clean Development Mechanism (CDM)	Clause 5.3(i) of NTP	State Power Department		Not yet done	
	i) Are CDM costs allowed as a pass through in tariff?					
(h)	ii) No. of cases that have been granted for CDM benefits till dated.	Clause 5.4 of NTP	State Govt		-NA-	
	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?				Yes	
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	Yes	
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				-NA-	

	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				Not yet done by JERC	
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		Not determined	
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission/ CERC	1.4.2006	Fixed by regulations	
	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				Fixed	
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				Nil	
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months	Yes	
10.	TRANSMISSION					
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006	Done by CERC	
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year	NA	
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	Yes	

	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		Yes	
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		NA	
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		NA	
11.	DISTRIBUTION					
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	Yes by JERC	
(b)	i) Present AT & C losses (in %) ii) Previous year AT & C losses (in %) iii) Reduction in AT&C Losses over previous year (in %)	Clause 8.2.1(2) of NTP	Appropriate Commission		As per tariff order dated 27.06.2012	
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		No	
	ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?				No	
(d)	Reduction in cross subsidy i) Whether tariff to all consumers is within +_20% of average cost of supply including agriculture consumer? ii) Whether tariff to all consumers is within +_20% of average cost of supply excluding agriculture consumer?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	Yes	
(e)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		Yes	
(f)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		Under process	
(g)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		Spot billing partly done in some pilot areas. Cash collection being done by around 350 Bank/ Cooperative Societies all over the State	
(h)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	Yes	
(i)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		NA as un-bundled	

(j)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		NA	
(k)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		NA	

REFORMS MONITORING UNIT PROFORMA

Name of the State: GUJARAT

Status: For the quarter 3 of FY 2014-15

Progress of Reform Measures as per the **National Tariff Policy 2006**

Status reported by Gujarat Electricity Regulatory Commission vide Letter No. GERC/Tech No.0292 Dated: 06.02.2015

SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
NATIONAL TARIFF POLICY – 2006						
9.(a)	Procurement of Power through competitive bidding	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	5810 MW under Case-1 1805 MW under Case-2	
	(i) Generation projects through competitive bidding Case-1 and Case-2 till date					
	(ii) Transmission Projects through competitive bidding (Case-2) till date					
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission / CERC			14% (same for all the utilities)
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission			GERC(Multi Year Tariff) Regulations, 2011 Notification No. 1 of 2011: The Generating Company or the Transmission Licensee or the Distribution Licensee, as the case may be, shall make every effort to re-finance the loan as long as it results in net savings on interest and in that event the costs associated with such re-financing shall be borne by the beneficiaries and the net savings shall be shared between the beneficiaries and the Generating Company or the Transmission Licensee or the Distribution Licensee, as the case may be, in the ratio of 2:1.
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission			Specified in GERC (Standard of Performance of Distribution Licensee) Regulation, Notification No.10 of 2005, notified on 31.03.2005.
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06		(i) Yes
	i) Has SERC introduced MYT?					
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?					(ii) YES (For generation, it is conducted by Central Electricity Authority[CEA], for Transmission & Distribution it is based on the past performance)

	<p>iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?</p> <p>iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.</p>				<p>(iii) Capex is allowed on historical performance basis and proposed for improvement in distribution system. No specific bench mark is decided.</p> <p>(iv) In the case of variation in power purchase unit cost, FPPPA (Fuel price and power purchase Adjustment) is being done on Quarterly basis. Mechanism for sharing of gain/loss on account of inflation, taxes & cess is provided in Multi Year Tariff (MYT) Regulation notified by GERC. Thus it ensures that future consumers are not burdened with past costs.</p>
(f)	<p>Benefits under Clean Development Mechanism (CDM)</p> <p>i) Are CDM costs allowed as a pass through in tariff?</p> <p>ii) No. of cases that have been granted for CDM benefits till dated.</p>	Clause 5.3(i) of NTP	State Power Department		<p>(As per previous quarter) CDM benefits are shared as per CERC formula</p> <p>No</p>
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		(As per previous quarter) The taxes, cess imposed by State Government are uniform and ad-valorem structure of Electricity Duty is adopted in the State.
(h)	<p>i) Introduction of availability based tariff by April, 2006.</p> <p>ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);</p> <p>iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.</p>	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	<p>i&ii) Availability Based Tariff was introduced vide order No. 3 of 2006 dated 11.08.2006. Same was under mock trail up to 4.4.2010. The same was made operational vide Order No. 1 of 2010 dated 1.4.2010 from 5.04.2010. The same is applicable to Distribution licensee, the Generating companies including IIPs, grid connected and CPPs above 15 MW capacity.</p> <p>iii) The Commission has in its approved tariff Schedule decided the Time of Use charge as additional charge during the peak hour's consumption. It is applicable on Energy consumption i.e. on energy charges.</p>
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		<p>For DISCOMs Wheeling charges for FY 2014-15 are as follows at 11 KV : 13 ps/kwh at 440 V (LT) : 48 ps/kwh For TPL Wheeling charges for the FY 2014-15 are as follows: For Long Term/ Medium Term Open Access Consumers in the case of HT and LT voltages in Rs./kW/Month, for TPL (Adh.) are</p>

					210 & 353 respectively, for TPL (Surat) 230 & 324 respectively. For short term open access consumers in the case of HT and LT voltages in paise/kWh, for TPL (Ahd.) are 63 & 65 respectively, for TPL (Surat 74 & 66 respectively/																																													
(j)	<div>i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1st April, 2006;</div> <div>ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;</div> <div>iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;</div> <div>iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.</div>	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission / CERC	1.4.2006	<div>i&ii) The Commission had notified GERC (Procurement of Power from the Renewable Sources) Regulations, 2005 and GERC (Procurement of energy from Renewable sources) Regulations 2011 notified by the Commission on 26.05.2010. This regulation has been amended in the notification no.2 of 2014 dated 04.03.2014. According to above Regulations R.P.O. for various years are shown in the table below:</div> <table><tr><th>Year</th><th colspan="4">Minimum quantum of purchase (in %) from renewable energy sources (in terms of energy in kWh)</th></tr><tr><th>(1)</th><th>Total (2)</th><th>Wind (3)</th><th>Solar (4)</th><th>Biomass, bagasse and others</th></tr><tr><td>2010-11</td><td>5%</td><td>4.5%</td><td>0.25%</td><td>0.25%</td></tr><tr><td>2011-12</td><td>6%</td><td>5.0%</td><td>0.5%</td><td>0.5%</td></tr><tr><td>2012-13</td><td>7%</td><td>5.5%</td><td>1.0%</td><td>0.5%</td></tr><tr><td>2013-14</td><td>7%</td><td>5.5%</td><td>1.0%</td><td>0.5%</td></tr><tr><td>2014-15</td><td>8%</td><td>6.25%</td><td>1.25%</td><td>0.5%</td></tr><tr><td>2015-16</td><td>9%</td><td>7.00%</td><td>1.5%</td><td>0.5%</td></tr><tr><td>2016-17</td><td>10%</td><td>7.75%</td><td>1.75%</td><td>0.5%</td></tr></table> <div>iii) In order to promote renewable energy source, the Commission has stipulated renewable purchase obligation in the distribution license and others, as well as determine preferential tariff as per national tariff policy.</div>	Year	Minimum quantum of purchase (in %) from renewable energy sources (in terms of energy in kWh)				(1)	Total (2)	Wind (3)	Solar (4)	Biomass, bagasse and others	2010-11	5%	4.5%	0.25%	0.25%	2011-12	6%	5.0%	0.5%	0.5%	2012-13	7%	5.5%	1.0%	0.5%	2013-14	7%	5.5%	1.0%	0.5%	2014-15	8%	6.25%	1.25%	0.5%	2015-16	9%	7.00%	1.5%	0.5%	2016-17	10%	7.75%	1.75%	0.5%
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2016-17	10%	7.75%	1.75%	0.5%																																														
				Within three months	iv) For non-firm power from non-conventional sources like wind, solar, etc. the commission has made necessary provisions for price of such energy in its ARR order.																																													
10.	TRANSMISSION																																																	
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006	Pertaining to CERC.																																													

	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year	Pertaining to CERC.												
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	Commission will decide the same in due course.												
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		The Commission has in its order for implementation of Intra-state ABT in the state and in the Regulation for the Open Access, provided ABT compatible meter as prerequisite for Open Access.												
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		It is required to be evolved by FoR.												
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		<p>Transmission loss and % availability are the Key performance indicators for the Transmission system. The commission has given trajectory for reduction in transmission loss, which is given in the table below:</p> <table border="1"> <tr> <th>Transmission/ year</th><th>FY 11-12</th><th>FY 12-13</th><th>FY 13-14</th><th>FY 14-15</th><th>FY 15-16</th></tr> <tr> <td>GETCO</td><td>4.18</td><td>4.15</td><td>4.10</td><td>4.10</td><td>4.10</td></tr> </table>	Transmission/ year	FY 11-12	FY 12-13	FY 13-14	FY 14-15	FY 15-16	GETCO	4.18	4.15	4.10	4.10	4.10
Transmission/ year	FY 11-12	FY 12-13	FY 13-14	FY 14-15	FY 15-16												
GETCO	4.18	4.15	4.10	4.10	4.10												
11.	DISTRIBUTION																
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	It has been done through Consulting Firms like Administrative Staff College of India (ASCI), CRISIL & Medhaj Concepts Pvt. Ltd for various financial years.												
(b)	Levels of consumer tariff	Clause 8.2.1(2) of NTP	Appropriate Commission		Low Tension (LT) & High Tension (HT) categories.												
(c)	Grant of subsidy	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		No												
(d)	i) Does SERC specify subsidy tariff for relevant categories? ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?				Yes, on Quarterly basis												
(e)	Cost of supply Whether tariff to all consumers is within +_20% of average cost of supply?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	<p>Yes, tariff to all consumers is within $\pm 20\%$ of average cost of supply, except following things:</p> <p>(a) For State Owned Discoms:- Agriculture (-ve 39.85%) and Industrial HT (+ve 26.08)</p>												

					(b) For Torrent Power Ltd. and other SEZs:- It is within limit i.e. $\pm 20\%$ Avg. cost of supply.
(f)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		For the FY 2014-15, Tariff for Agriculture use @ Low & Medium Voltage: a) HP based Tariff: Rs.200/HP/month b) Metered Tariff: Fixed Charge =Rs.20/HP/month, Energy Charge 60 paise/unit/month. (c) High & Extra High Tension(per month): Fixed Charges: Rs.40/kVA/month Energy Charges: 170 paise/unit.
(g)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		(As per previous quarter) As the subsidized rates are only for unmetered agriculture consumers where assessment of actual consumption is not possible, it is not possible to have different tariff for predetermined level or above that.
(h)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		Being done partially by PGVCL & MGVL. (as replied by DISCOMs) DGVCL: Till-to-date, there is no such franchisee is given in Rural Area. Uttar Gujarat Vij Co.Ltd: Not done.
(i)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	Yes, this has been in place.
(j)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		(As per previous quarter) All the existing PPAs have been allocated to Distribution companies from 29.04.2006.
(k)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		Except for certain consumers in the agriculture category, all the consumers are metered. All new agriculture connections released after Oct.2000 are metered connections. DISCOMs are pursuing consumers for adoption of meter tariff through programme like consumers meetings, distribution of hand bills etc. as per directive issued by the Commission. All the consumers under TPL are metered.
(l)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		The Open Access Regulation provides for appropriate costs for standby arrangements.

REFORMS MONITORING UNIT PROFORMA

Name of the State: HARYANA

Status: For the quarter April-June, 2013

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by Haryana Electricity Regulatory Commission vide Memo No.1198/HERC/Tariff/CEA/RMU/F-111 dated 16.08.2013

SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks	
NATIONAL TARIFF POLICY - 2006							
9.(a)	Procurement of Power through competitive bidding	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	I) Case-I= 1724 MW (1424MW from Adani Power Limited, Mundra and 300 MW from GMR Kamalanga) Case-II = 1320 MW (Jhajjar Power Limited, Jhajjar)	Presently both PPAs signed under Case-1 are in litigation for revision in tariff due to coal policy and other factors i.e. change in law.	
	(i) Generation projects through competitive bidding Case-1 and Case-2 till date						
	(ii) Transmission Projects through competitive bidding (Case-2) till date				ii) One project through PP mode		
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission / CERC		Return on equity – to be decided by the Commission keeping in view the incentives and penalties and on the basis of overall performance subject to a ceiling of 14%.		
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		As per actual, based on interest rates specified by the lending institutions.		
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission		As per Electricity Supply Code for the Haryana State.		
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	Regulations have been notified vide Regulation No.HERC/26/2012 and MYT period begins w.e.f. 01.04.2014.		
	i) Has SERC introduced MYT?				Yes, done by the consultant M/s Mercados		
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?						
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?				As per the existing MYT provisions, the licensees shall have to file the Business Plan and Capital investment plan to meet their obligation as a distribution licensee. The investment approvals are accorded with due consideration of the above plans.		

	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				Yes, covered under MYT Regulation.
(f)	Benefits under Clean Development Mechanism (CDM) i) Are CDM costs allowed as a pass through in tariff?	Clause 5.3(i) of NTP	State Power Department		The HERC (Terms and Conditions for determination of Tariff from Renewable Energy Sources, Renewable Purchase Obligation and Renewable Energy Certificate) Regulations, 2010, have provision in this regard as under :- (1) The proceeds of carbon credit from approved CDM project shall be shared between generating company and concerned beneficiaries in the following manner, namely: a) 100% of the gross proceeds on account of CDM benefit to be retained by the project developer in the first year after the date of commercial operation of the generating station; b) In the second year, the share of the beneficiaries shall be 10% which shall be progressively increased by 10% every year till it reaches 50%, where after the proceeds shall be shared in equal proportion, by the generating company and the beneficiaries.
	ii) No. of cases that have been granted for CDM benefits till dated.				
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		Yes.
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	In process of finalization.
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				Peak Load Exemption Charges determined. The Commission in its order dated 14.03.2013 has introduced Reliability surcharge. The Discoms shall provide uninterrupted supply of power on selected Urban and Industrial feeders and charge reliability surcharge thereon.
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		Being determined by the Commission regularly.

(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission / CERC	1.4.2006	RPO has been fixed by the Commission vide Regulation No.HERC/23/2010 and its subsequent amendments.
	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;			Solar RPO has been fixed by the Commission vide Regulation No.HERC/23/2010 and its subsequent amendments.	
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;			Not yet taken up.	
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months	--
10.	TRANSMISSION				
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006	
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year	
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	Provided in the HERC (Terms and conditions for grant of connectivity and open access for intra-State transmission and distribution system) Regulations, 2012
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		Compatible metering with ABT(SEMs) are installed at the interface points of generating company, transmission licensee and discoms.

(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		---
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		Not specified so far. However, transmission system availability norms have been specified in MYT Regulations.
11. DISTRIBUTION					
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	Yes, HERC is scrutinizing the financial & technical data submitted by the Licensees in their APR & Retail Supply Tariff filings.
(b)	Levels of consumer tariff	Clause 8.2.1(2) of NTP	Appropriate Commission		Tariff schedule effective from 01.04.2013 is attached as Annexure-I.
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		Subsidy is only for agriculture consumers, which is specified in the order.
(d)	ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?				Yes
(e)	Cost of supply Whether tariff to all consumers is within +_20% of average cost of supply?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	Yes
(f)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		AP tariff with subsidy: AP Metered: Paisa/kWh i) with motor upto 15 BHP 25 ii) with motor above 15 BHP 20 AP Un-metered (Rs./ Per BHP/ Month): i) with motor upto 15 BHP 35 ii) with motor above 15 BHP 30 AP Metered/ unmetered tariff without subsidy is Rs.6.28/kWh
(g)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		Voltage wise cost of supply yet to be submitted by the Discoms.
(h)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		EoI has been invited by GM/ Commercial DHBVN by 20.12.2012 for selecting a Feeder Distribution Associate (FDA) through competitive bidding process for undertaking the responsibility of distribution of electricity and carrying out related activities in the associate are comprising of two 11 kV feeder under the single scheme, two 11 kV feeder for the same consumer category, for the same scheme in each circle i.e. one for the rural feeder and one for Urban/ mixed-urban feeder in each circle.

(i)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause NTP	8.4(1) of	Appropriate Commission	Within 1 year	Two part tariff has been introduced. ToD tariff not yet introduced.
(j)	PPA with generating company	Clause NTP	8.4(2) of	State Govt		Have PPA with ISGS station except state generator.
(k)	Incentives to encourage metering and billing based on metered tariff	Clause NTP	8.4(3) of	Appropriate Commission		Unmetered agriculture consumer's tariff is marginally higher than agricultural metered consumers.
(l)	Tariff for standby arrangements	Clause NTP	8.5(6) of	Appropriate Commission		At temporary supply rate of respective consumer category.

REFORMS MONITORING UNIT PROFORMA

Name of the State: HIMACHAL PRADESH

Status: For the quarter July-September, 2012

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by Himachal Pradesh Electricity Regulatory Commission vide Letter No.MPP-F(10)-17/2011 (HIMACHAL GOVT) dated 1.12.2012

SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
NATIONAL TARIFF POLICY – 2006						
9.(a)	Procurement of Power through competitive bidding	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11		
	(i) Generation projects through competitive bidding Case-1 and Case-2 till date				The State has only Hydro Generation and hence Case-1 Bidding is not applicable. In respect of Case-II Bidding, bid document for one Small Hydro Power Plant has been approved.	Procurement of power is being done by estimating the cost element with utmost care based on most efficient way of procuring power from the generating stations through long terms and through bilateral purchase arrangement. Further, the State Government power is free power and equity power. Thus bidding process is not required at this stage except for renewable to meet RPO.
	(ii) Transmission Projects through competitive bidding (Case-2) till date				No Transmission Projects under Case-II bidding till date. Scope of work being reasonable, the STU, CTU and IPPs are setting up transmission projects.	Bidding is not required at this stage.
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission / CERC		Fixed % specified.	Regulations are in place providing: (i) For wheeling and retail supply business – 16% p.a. post tax. (ii) For generation business – on pre tax basis at the rate of 15.5%. (iii) For Transmission Business – on pre tax basis at the rate of 15.5%.
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		Required Step taken	Provision has been made under HPERC (Terms and Conditions

						for determination of wheeling and retail supply tariff) Regulations, 2011 to incentivize the distribution licensee for savings in cost on account of restructuring of debt.
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission		Operating norms specified.	Provision has been made to set target for each year of the control period for the norms or parameters that are deemed to be controllable vide HPERC (terms and conditions for determination of wheeling and retail supply tariff) Regulation, 2011. Accordingly, the trajectory for reduction of T&D losses during the second MYT control period (FY 12-14) has been fixed by the commission.
(e)	Multi Year Tariff (MYT) i) Has SERC introduced MYT?	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	Yes	MYT Frame work implemented in FY 2008. First MYT Tariff Order for the HPSEBL issued on 30.05.2008.
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?				Yes	An in-house study on benchmarking of operational parameters (R&M) and Employee costs) has been carried out, which is adequate.
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?				Yes	Transmission master plan prepared by STU and DISCOM, which is approved by CEA.
	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				Recovery of uncontrollable costs has been addressed by the Commission in HPERC (Terms and Conditions for Determination of Wheeling Tariff and Retail Supply Tariff) (First Amendment) Regulations, 2012 published in HP Rapatra on 2 nd April, 2012.	In these regulations powers have been given to the DISCOM to increase Tariff in the next quarter of financial year upto a ceiling of 10% of average per unit power purchase rate approved in the Tariff Order in the event of: - Variation in fuel surcharge. - Incremental Power purchase cost. - Revision of tariff by CERC for

						interstate transmission system and central station.
(f)	Benefits under Clean Development Mechanism (CDM) i) Are CDM costs allowed as a pass through in tariff?	Clause 5.3(i) of NTP	State Power Department		Yes, in generation tariff.	--
	ii) No. of cases that have been granted for CDM benefits till dated.				Nil	--
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		Electricity duty is uniform for each category and has been fixed within reasonable limits.	
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	No separate availability based Tariff (ABT) for the intra-state system has been specified by the Commission.	The ABT as specified by the CERC for the inter-State in CERC (Unscheduled Inter-change charges and related matters) Regulations, 2009 are applicable.
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				There is no Thermal Station in the State. Major Hydro Projects in the State are with CPSUs and two part tariff as per CERC regulations are applicable.	
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				Introduced.	Differential rates for fix charges are specified for peak and off peak hours for consumer categories e.g. Small Medium Industrial, Large Industrial, and Water Irrigation Pumping Supply. However, differential rate in the form of night time concession is available to all

						categories of consumer other than domestic.
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		Being determined regularly on year to year basis.	
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission / CERC	1.4.2006	RPO has been fixed up to year 2022 in accordance with the tariff policy and NAPCC and the percentage RPO fixed is higher than those stipulated in NAPCC.	
	Solar specific RPO specified as 0.25% in HPERC (Renewable Power Purchase Obligation and its Compliance) (First Amendment) Regulations, 2011 which were published in the HP Rajpatra on 3.10.2011.					
	DISCOM has initiated Competitive Bidding process (Case-II) for SHPs and Commission has approved bid document for one 6 MW SHP.					
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;					
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months	--	
10.	TRANSMISSION					
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006	Pertains to CERC	NA
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year	Pertains to CERC	NA

	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	Process has been initiated.	
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		Time of Day Tariff (ToD) Meters has been installed for all consumers above 20 KW consumers.	
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		No benchmarks have been determined for technical loss in transmission.	Transmission function has been given to STU/TRANSCO recently in 2010 only after restructuring of Board and hence these are now being worked out.
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		No key performance indicators have been specified for transmission.	-do-
11. DISTRIBUTION						
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	Being done.	Financial and technical data submitted by utilities is scrutinized by the Commission and the consultants engaged for the purpose. The DISCOM submits technical reports on issues such as Energy audit etc and Financial and Tariff filing which is scrutinized.
(b)	Levels of consumer tariff	Clause 8.2.1(2) of NTP	Appropriate Commission		Tariffs are determined as per existing tariff Regulations and ARR filings by utility and after exercise of prudence check by the Commission.	
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		Yes	In the Tariff Order (2 nd APR of 2 nd MYT) for FY 2013, the HPERC has specified the subsidized Tariff for the Domestic supply category of consumers and for the Agriculture and Allied activities

						of consumers under the Water and Irrigation Pumping Supply Category of consumers.
(d)	ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?				Yes	State Government is releasing Subsidy on quarterly advance basis, which is reconciled at the end of the year.
(e)	Cost of supply Whether tariff to all consumers is within +_20% of average cost of supply?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	Tariff of all consumer categories are within +20% of Average Cost of supply	During 2012-13 tariff against average cost of supply is as under: <ul style="list-style-type: none"> - Domestic = 80% - NDNC = 114% - Commercial = 113% - Small Medium Supply = 113% - Large Industrial Power Supply <ul style="list-style-type: none"> - EHT = 97% - HT = 108% - Water & Irrigation Pumping <ul style="list-style-type: none"> - LT = 97% - HT = 113%
(f)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		Agriculture consumers are covered under water and irrigation pumping supply (WIPS) category.	Tariff under this category is determined both under 'single' and 'two part'. The State Govt. is providing subsidy to consumers under 'single part' and for LT consumer under "two Part" tariff (above 20 KW) for Agricultural and allied activities. HPERC has specified the subsidized Tariff in the Tariff Order for FY 2013.
(g)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		Tariffs are based on the Annual Revenue Requirement (ARR) petitioned by the DISCOM, which reflects the cost of service.	
(h)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		As per the requirement of RGGVY Scheme, 134 Sub Divisions have been covered under Franchisees.	

(i)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	Two part tariff and time differentiated tariff exists for consumers of all categories above 20 kw except domestic and Street Lighting categories.	
(j)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		Not relevant in the State as we have only one DISCOM i.e. HPSEBL.	
(k)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		All consumers in the State of HP are metered and accordingly billed.	
(l)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		Provision of Clause 8.5(6) of NTP is applicable in general and temporary tariff category already exists in the HPERC Tariff Orders.	

REFORMS MONITORING UNIT PROFORMA

Name of the State: JAMMU AND KASHMIR

Status: Upto March, 2014

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by Jammu and Kashmir Electricity Regulatory Commission vide Letter No.JKSERC/Secy/12/07/236 Dated 24.04.2014

SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
NATIONAL TARIFF POLICY - 2006						
9.(a)	Procurement of Power through competitive bidding	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	The Commission has adopted the tariff determined through competitive bidding process in accordance with the guidelines issued by the Government for 690 MW Ratle project, for which PPA has been signed between procurer (J&K PDD) & Developer (M/s GVK Ratle HEP).	
	(i) Generation projects through competitive bidding Case-1 and Case-2 till date					
	(ii) Transmission Projects through competitive bidding (Case-2) till date				None so far.	
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission / CERC		15.5% for Transmission and Distribution & 14% for Generation.	
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		As per the Regulations. Debt: Equity ratio is 70:30. No restructuring has been done so far.	
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission		JSKERC (Distribution Performance Standards) Regulations notified by the Commission specify the operating norms for the Distribution Utility.	
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	Multi Year Tariff (MYT) Regulations for Transmission and Distribution notified on 06.09.2012.	
	i) Has SERC introduced MYT?					
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?				No study has been conducted so far. However, annual targets for reduction of T&D loss are fixed.	
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?				No study conducted.	

	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				The MYT tariff was introduced in the year 2013-14 only. The matter regarding recovery of uncontrollable costs will be reviewed by the Commission after the Annual Performance Review filed by the Utility, for the year 2013-14.
(f)	Benefits under Clean Development Mechanism (CDM) i) Are CDM costs allowed as a pass through in tariff?	Clause 5.3(i) of NTP	State Power Department		
	ii) No. of cases that have been granted for CDM benefits till dated.				
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	(i)&(ii) In the State there is only one Generation Utility and one Distribution Utility. Both are government owned and therefore, it was not felt necessary to issue availability based tariff.
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				(iii) The Commission has advised Utility to collect & analyze relevant data on demand pattern of various consumers & submit implementation plan for TOD tariff to be considered for introduction during next year.
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		There is no surplus captive generation in the State and hence wheeling charges for captive power not issued so far.
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission / CERC	1.4.2006	Renewable Purchase obligation has been notified in March, 2011 and revised targets have been notified covering the period of upto FY 2016-17.

	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				Solar specific renewable purchase obligation of 0.25% by FY 2012-13 notified.
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				No such case received by Commission
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months	--
10.	TRANSMISSION				
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006	
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year	
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	J&KSERC Electricity Grid Code, Regulation notified on 20.11.2007 are in place. These regulations lay down rules, guidelines and standards to be followed by all users of the State Grid for efficient and coordinated operation of Transmission system, integrated with Northern Grid. Regulations for tariff determination have also been notified.
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		J&KSERC Electricity Grid Code contains one full section on Transmission metering which prescribes compatible metering with ABT requirement and ToD metering.
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		Not done so far.
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		JKSERC terms and conditions for determination of Transmission Tariff Regulations, 2012. In the chapter on Principle for Computation

					of ARR & Tariff specifies target availability for Intra-State Transmission as 98%. Recovery of fixed charges below the level of target availability shall be on pro-rata basis and at zero availability, no transmission charges shall be payable. Thus the system availability of the Utility shall be a factor for financial incentives/disincentives.
11.	DISTRIBUTION				
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	Since the Utility is a Govt. Department, the financial data is invariably verified from the budget/revenue related document of the J&K finance Department.
(b)	Levels of consumer tariff	Clause 8.2.1(2) of NTP	Appropriate Commission		Multi Year Tariff (MYT) has been introduced w.e.f. April, 2013.
(c)	Grant of subsidy	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		The Utility being a J&K Govt. Department, the revenue gap is bridged by 100% Govt. funding.
(d)	i) Does SERC specify subsidy tariff for relevant categories? ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?				
(e)	Cost of supply Whether tariff to all consumers is within +_20% of average cost of supply?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	The prevalent tariff for all the consumers' category except for State/ Central Govt. Departments, LT Public Water Works and General Purpose Bulk Supply is below the average cost of supply by more than 20%, because of high T&D losses. No tariff is however, above the Average Cost of Supply.
(f)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		The tariff for irrigation loads upto 20 HP is Rs. 0.65/KWH whereas for loads above 20 HP the tariff is Rs. 4.75/KWH.
(g)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		
(h)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		
(i)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	Two part tariff already in place whereas time differentiated tariff is being considered for introduction for which instructions for conducting studies have been issued to the utility.
(j)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		
(k)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		Flat rate tariff has been kept high to discourage unmetered supply.
(l)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		At present no provision for providing standby power supply to OA consumers exist. This is being considered for introduction.

REFORMS MONITORING UNIT PROFORMA

Name of the State: JHARKHAND

Status: For the quarter October-December, 2011

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by Jharkhand State Electricity Board vide Letter No. 342 dated 10.03.2012

SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
NATIONAL TARIFF POLICY – 2006						
9.(a)	Procurement of Power through competitive bidding	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	No procurement through competitive bidding. In emergency cases, power is purchased through IEX.	
	(i) Generation projects through competitive bidding Case-1 and Case-2 till date					
	(ii) Transmission Projects through competitive bidding (Case-2) till date				Transmission projects are underway.	
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission / CERC		14%	
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission			
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission			
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	Yes	
	i) Has SERC introduced MYT?					
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?				Study is being conducted through consultants	
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?				Study is being conducted through consultants	

	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				JSEB has Thermal & Hydel in 60:40 ratio respectively allocated from centre.
(f)	Benefits under Clean Development Mechanism (CDM) i) Are CDM costs allowed as a pass through in tariff?	Clause 5.3(i) of NTP	State Power Department		Yet to take place.
	ii) No. of cases that have been granted for CDM benefits till dated.				
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		Electricity duty is imposed.
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	Yet to take place
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				ATB meters are available with captive users.
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				Provided in regulation by JSERC
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		Determined in tariff petition by JSERC
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission / CERC	1.4.2006	Fixed by JSERC vide Gazette notification no.324 dated 24.02.2010.

	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				Yes
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				Eight developers in the State are working to generate 8 X 2 MW Solar Power under JNNSM Scheme.
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months	Eight developers in the State are working to generate 8 X 2 MW Solar Power under JNNSM Scheme.
10.	TRANSMISSION				
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006	JSERC is vertically integrated Licensee and submit disaggregated tariff for Generation, Transmission & Distribution.
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year	
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		

11.	DISTRIBUTION				
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	Scrutiny of data is done by JSERC
(b)	Levels of consumer tariff	Clause 8.2.1(2) of NTP	Appropriate Commission		Rates of each category of consumers are determined by JSERC
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		Yes
(d)	ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?				In form of resource gap.
(e)	Cost of supply Whether tariff to all consumers is within +_20% of average cost of supply?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	No. The agriculture consumers are having very low tariff.
(f)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		Rs. 0.50/KWH
(g)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		There is huge gap
(h)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		Under process
(i)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	Yes
(j)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		Yes
(k)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		Yes
(l)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		No

REFORMS MONITORING UNIT PROFORMA

Name of the State: KARNATAKA

Status: Upto March, 2014

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by: Government of Karnataka vide Letter No.EN 44 PSR 2014 dated 04.07.2014 and Karnataka Electricity Regulatory Commission vide letter No.B/11/11/247 dated 26th May, 2014 Bangalore Electricity Supply Company Limited vide letter No.BESCOM/BC-20/2001/2011-12/697-98 dated 13.11.2014

SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
9(a)	<p>Procurement of Power through competitive bidding</p> <p>i. Present power requirement (in MW) of the state.</p> <p>ii. Power requirement (in MW) of the state as on 06.01.2011.</p> <p>iii. Increase in Demand (in MW) since 06.01.2011 (i-ii)</p> <p>iv. Whether all this increase in demand since 06.01.2011 is being met through competitive bidding route? (Yes/No).</p> <p>v. If not, then what % of this increase in demand since 06.01.2011 is being met through competitive bidding route?</p> <p>Transmission</p> <p>i) Total transmission capacity added (in MW) in the state after 6.1.2011.</p> <p>ii) Transmission capacity added through competitive bidding route (in MW) in the State after 6.1.2011.</p> <p>iii) Percentage of transmission capacity added (in MW) through competitive bidding out of total transmission capacity added in the State after 6.1.2011.</p>	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 06.01.2011	<p>Unrestricted demand for the year 2013-14 is 10334 MW (as per CEA forecast)</p> <p>For the year 2010-11: 8338 MW</p> <p>1996 MW</p> <p>No</p> <p>54.6% during October 2013 to March 2014. Kundankulam unit 1 has been synchronized to the grid. The allocated capacity of Karnataka is 22.1% MW</p> <p>255 MW</p> <p>NIL</p> <p>NIL</p>	<p>So far policy is not in place.</p>

b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Comments/ CERC		15.5% on equity plus reserves	
c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		Weighted average cost of debt is allowed.	Average
d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission		As per distribution code specified by the commission.	
e)	Multi Year Tariff (MYT) i. Has SERC introduced MYT? ii. Whether any study conducted for bench- marking performance to establish desired performance standards? iii. Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards? iv. Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	01.04.2006	i) MYT introduced from FY-08 onwards. ii) No studies conducted for benchmarking performance to establish desired performance. iii) No utility wise study to assess capital expenditure necessary to meet the minimum service standard has been conducted. iv) Uncontrollable costs are treated as pass through under APR as per MYT Regulations. For recovery of uncontrollable Fuel costs, the Commission has notified the KERC (Fuel Cost Adjustment Charges) Regulations 2013 and accordingly, the same is effective from 01.07.2013.	

f)	Benefits under Clean Development Mechanism (CDM) i. Are CDM cost allowed as a pass through in tariff? ii. No. of cases that have been granted for CDM benefits till dated	Clause 5.3(i) of NTP	State Power Department		Not yet developed	
g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		Not yet imposed any duty for grid connected consumers	
h)	i) Introduction of availability based tariff by April, 2006 ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs); iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load	Clause 6.2(1) of NTP	Appropriate Commission	i) April 2006	i) Mock exercise continued ----- The Commission has made ToD metering mandatory for HT2(a), HT2(b) and HT2(c) Consumers with a contract demand of 500 KVA and above with effect from 1 st September 2012. The ToD meter is optional for HT2 (a), HT2 (b) and HT2(c) Consumers with a contract demand of 500 KVA contract demand. For LT5 and HT1 Consumers the optional ToD is continued.	
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		Determined and specified in Tariff order issued from time to time.	
(j)	i. Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006; ii. Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;	Clause 6.4(1) of NTP and Section 86(1) (e) of EA	Appropriate Commission/ CERC	01.04.2006	RPO fixed for both Solar and non-Solar as per and new regulations issued on 16.03.2011. Yes	

	<p>iii. Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;</p> <p>iv. Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.</p>			Within three months	<p>No</p> <p>Not applicable</p>	
10.	TRANSMISSION					
a)	<p>i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA</p> <p>ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.</p> <p>iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.</p> <p>iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.</p>	<p>Clause 7.1(2) of NTP</p> <p>Clause 7.1(5) of NTP</p> <p>Clause 7.1(7) of NTP</p> <p>Clause 7.1(8) of NTP</p>	<p>Central Commission</p> <p>Central Commission</p> <p>Appropriate Commission</p> <p>Appropriate Commission</p>	<p>01.04.2006</p> <p>Within one year</p> <p>Within two years after implementation of CERC regulation</p>	<p>Not yet notified</p> <p>Not yet notified</p> <p>Yet to be done</p> <p>iv) Implementation of Intra State ABT is under progress. The Commission has made TOD metering mandatory for HT2(a), HT2(b), and HT2(c) Consumers with a contract demand of 500 KVA and above with effect from 1st September 2012. The ToD meter is optional for HT2(a), HT2(b), and HT2(c) Consumers with less than</p>	

	b) Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2(1) of NTP	Appropriate Commission		500 KVA contract demand. For LT5 and HT1 Consumers the optional ToD is continued. The Commission in its MYT Regulation has specified normative system availability and in Tariff Orders issued by the Commission from time to time as fixed target level of transmission losses.	
	c) Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		Yet to be done	
11.	DISTRIBUTION					
	a) Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission		Scrutinised during review of tariff filling and annual performance review. Further, the Commission is reviewing the financial and technical data of ESCOMs in FY-14 on quarterly basis	
	b) i. Present AT & C losses (in %) ii. Previous year AT & C losses (in %) iii. Reduction in AT & C losses over previous year (in %)	Clause 8.2.1(2) of NTP	Appropriate Commission		i. 18.25% (up to March 2014 provisional) ii. 19.50% (for the year 2012-13) iii. 1.25 R-APDRP Programme is under implementation	
	c) Grant of subsidy i. Does SERC specify subsidy tariff for relevant categories? ii. Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission	End of 2010-11	BPL Households & Irrigation pump sets are subsidized by the State Government. The Commission determines Tariff for these categories after considering cross subsidy component. The Commission has issued regulations for release of subsidy on a quarterly basis. However the Government of Karnataka is releasing subsidy on monthly basis.	

d) <u>Reduction in cross subsidy</u>	i. Whether tariff to all consumers is within +_20% of average cost of supply including agriculture consumer?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	No	
	ii. Whether tariff to all consumers is within +_20% of average cost of supply excluding agriculture consumer?				No	
e)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		Agriculture tariff not set depending upon the condition of the ground water.	
f)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		Tariff designing based on average cost of supply is being followed	
g)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		Yes .ESCOMs have engaged Micro Feeder Franchisee(MFF) on contract basis to carry out the following activities a) Meter reading b) Billing and bill distribution c) Revenue collection BESCOM have engaged GVPs/ MFPs on contract basis to carry out the activities relating to meter reading, billing and bill distribution for the assigned consumers, revenue collection of all specified LT consumers in the allotted area and meter reading of predominantly feeding IPDICs and water supply & street light installations.	
h)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	Introduced	
i)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		Yes	
j)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		Not yet done	

k)	Tariff for stand by arrangements	Clause 8.5(6)	Appropriate Commission		Specified in Open Access Regulations and it equivalent to Tariff applicable to LT temporary power supply.	
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REFORMS MONITORING UNIT PROFORMA

Name of the State: KERALA

Status: For the quarter October-December, 2011

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported Kerala State Electricity Regulatory Commission vide Letter No. 1541/C.Engg/Reforms/2011/122 dated 8.02.2012

SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
NATIONAL TARIFF POLICY - 2006						
9.(a)	Procurement of Power through competitive bidding	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	Case-1 bidding document approved. Invited bids by the licensee	
	(i) Generation projects through competitive bidding Case-1 and Case-2 till date					
	(ii) Transmission Projects through competitive bidding (Case-2) till date					
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission / CERC		14%	
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		New regulations are under preparation	
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission		Consultant's study in progress	
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	Notified 2006	
	i) Has SERC introduced MYT?				Consultancy in progress	
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?				Consultancy in progress	
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?					

	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				Fuel surcharge formula in place. Truing up completed in most cases; some cases in progress.
(f)	Benefits under Clean Development Mechanism (CDM) i) Are CDM costs allowed as a pass through in tariff?	Clause 5.3(i) of NTP	State Power Department		
	ii) No. of cases that have been granted for CDM benefits till dated.				
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	Not found relevant.
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				Not found relevant.
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				Introduced ToD to category above 20 KW and implemented.
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		Determined
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission / CERC	1.4.2006	Published

	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				Published
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				Not done
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months	Not done
10.	TRANSMISSION				
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006	
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year	
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	Not relevant
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		Not relevant
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		Not relevant
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		Under consultancy study

11.	DISTRIBUTION				
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	Not done
(b)	Levels of consumer tariff	Clause 8.2.1(2) of NTP	Appropriate Commission		Not done
(c)	Grant of subsidy	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		Section 65 insisted
	i) Does SERC specify subsidy tariff for relevant categories?				i) No subsidy specified by SERC
(d)	ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?				ii) No tariff subsidy. Subsidy announced for fuel surcharge paid.
(e)	Cost of supply Whether tariff to all consumers is within +_20% of average cost of supply?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	No
(f)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		Tariff prescribed.
(g)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		
(h)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		
(i)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	Already existing
(j)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		
(k)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		All consumers are metered.
(l)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		Yes

REFORMS MONITORING UNIT PROFORMA

Name of the State: **MADHYA PRADESH**

Status: For the quarter Oct-Dec, 2013

Progress of Reform Measures as per the **National Tariff Policy 2006**

Status reported by Madhya Pradesh Energy Department vide Letter Nos. 1484 dated 10.03.2014 and 3364/2014/13 dated 11.06.2014

SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
NATIONAL TARIFF POLICY - 2006						
9.(a)	Procurement of Power through competitive bidding	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11		Competitive bidding already started. Actual power procurement may commence 2013 onwards.
	(i) Generation projects through competitive bidding Case-1 and Case-2 till date					
	(ii) Transmission Projects through competitive bidding (Case-2) till date					
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission / CERC			16% for Discoms 15.5% for Transco and Genco.
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission			MYT regulations provide for incentive for restructuring of loan.
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission			O&M norms fixed for MYT period.
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06		Yes. First control period for Distribution was from 2007-08 to 2009-10 and second control period from 2010-11 to 2012-13. For Genco & Transco the control period were 2006-09 and 2009-12.
	i) Has SERC introduced MYT?					No study conducted.
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?					Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards has not been conducted so far.
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?					

	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				The Commission has prescribed the mechanism for recovery of Fuel Charges Adjustment (FCA) formula on quarterly basis so that un-controllable cost on account of variation in variable charges are recovered/adjusted in the Distribution & Retail Supply Tariff Order for FY 2012-13.
(f)	Benefits under Clean Development Mechanism (CDM) i) Are CDM costs allowed as a pass through in tariff?	Clause 5.3(i) of NTP	State Power Department		CDM benefits are 100% retained by the project developer in the first year. In the second year the share of the consumers shall be 10% which shall be progressively increased by 10% every year till it reaches 50%.
	ii) No. of cases that have been granted for CDM benefits till dated.				NIL (In Distribution)
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		Yes, under the provision of M.P. Vidyut Shulk Adhinium, 2012 (17 of 2012)
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	(i)-(iii) MP Electricity Balancing & Settlement Code 2009 dated 30.10.2009 has been notified.
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		Order issued from time to time. Latest order issued on 31.03.2012 along with Distribution & Retail Supply Tariff Order for FY 2012-13.
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission / CERC	1.4.2006	i) to iv) Regulations notified on 19.11.2010 specifying RPO.

	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months	
10.	TRANSMISSION				
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006	
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year	
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	Yet to be done.
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		Provided
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		Transmission loss Benchmark not determined.
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		Transmission Performance Standard Regulation notified.

11.	DISTRIBUTION				
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	Independent consultants have been appointed every year.
(b)	Levels of consumer tariff	Clause 8.2.1(2) of NTP	Appropriate Commission		Consumer tariffs at present are based on normative distribution loss levels specified in MYT regulations for each Discom and not on ATC loss levels. Moreover, as per the policy directives of the GoMP, uniform tariff across the State is determined for a consumer category.
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		No, the tariff is determined on full ACoS without considering any subsidy
(d)	ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?				Yes, generally on monthly basis.
(e)	Cost of supply Whether tariff to all consumers is within +_20% of average cost of supply?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	The Commission had notified road map for reduction of cross subsidy to bring it within +/- 20% of ACoS by 2010-11. The Commission in the tariff Order for FY 11-12 has made conscious efforts to bring it close to the road map as far as possible.
(f)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		Uniform tariff for Agricultural use is being determined so far. However, the tariff for agricultural use has been increased in the tariff issued by the Commission and is now up to the level of Rs.3.20/ unit up to first 300 units, Rs.3.75/ unit for consumption from 300 units to 750 in a month and Rs.4.00/unit for rest of the units in a month.
(g)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		Yes
(h)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		MP Paschim –Indore: 8 No. Input based rural franchisees are under operation. All Consumers under the rural franchisees area are metered. MP Paschim –Jabalpur: The MPPKVVCL Jabalpur has deployed “DTR level input based micro franchisees” in villages for metering of supply to agricultural/rural consumers in a consumer friendly way and in effective manner through commercial arrangement with franchisees having involvement of user associations and self help groups such as Swa Sahayata Samooh, etc. MP Madhya Khetra Vidyut Vitaran Co Ltd: There is no franchisee in rural area under MPMKVVCL Bhopal.
(i)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	Except LT agricultural category, two part tariff (i.e. fixed charges and energy charges) are in vogue. ToD tariff is in vogue for all HV consumers except railway traction, bulk residential users and exemptees.

(j)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		MP Power Management Co. Ltd. is the holding company of Discoms and PPAs are assigned to MP Power Management Co. Ltd.
(k)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		MYT regulation provide for Incentives/ disincentives to encourage metering and billing based on metered tariff.
(l)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		Notified on 20.2.2009.

REFORMS MONITORING UNIT PROFORMA

Name of the State: MAHARASHTRA

Status: For July-Sept, 2014

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by Maharashtra State Electricity Distribution Co. Ltd's letter No.CE/IR/MH/MSEDCL/RMU/JUN 14 Qtr/47/4332 dated 10.02.2015 and by Maharashtra State Electricity Transmission Co. Ltd's letter No. MSETCL/CO/Dir(Op.)/Reform Mon Unit/Energy Deptt/14395 dated 04.12.2014

SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
NATIONAL TARIFF POLICY - 2006						
9.(a)	<p>Procurement of Power through competitive bidding</p> <p>(i) Present power requirement (in MW) of the State</p> <p>(ii) Power requirement (in MW) of the State as on 06.01.2011</p> <p>iii) Increase in Demand (in MW) since 06.01.2011 (i – ii)</p> <p>iv) Whether all this increase in demand since 06.01.2011 is being met through competitive bidding route? (Yes/ No)</p> <p>v) If not, then what % of this increase in demand since 06.01.2011 is being met through competitive bidding route?</p> <p><u>Transmission</u></p> <p>(i) Total transmission capacity added (in MW) in the State after 6.1.2011</p> <p>(ii) Transmission capacity added through competitive bidding route (in MW) in the State after 6.1.2011</p> <p>iii) percentage of transmission capacity added (in MW) through competitive bidding out of total transmission capacity added in the State after 6.1.2011.</p>	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11 <u>MAHADISCOM:</u> Power was expected from Adani Power Maharashtra Ltd. 660 MW	<p><u>MAHADISCOM</u></p> <p>1. Power from Adani Power Maharashtra Ltd. Tiroda Unit 4 (600 MW) commences from 01.04.14</p> <p>2. Power from Indiabulls Power Ltd. Amravati Unit 2 (250 MW) commences from 22.04.14</p> <p>3. No Transmission project is executed by MSEDCL under case 2.</p> <p><u>TATA POWER:</u> Tata Power-D has adequate long term tie up to 945 MW in place. The arrangement has been approved by the MERC.</p> <p>The short term power requirement for a continuous period of more than 15 days was purchased (in FY 2013-14) through short term competitive bidding.</p> <p><u>BEST Undertaking:</u> 1) Max demand registered 877 MW (Sept 2014) at T&D interfact. 2) Maximum demand registered in 2010-11 is 900 MW (May 2010). 3) Decrease in max demand is 23 MW.</p> <p><u>Reliance Infra:</u> Up to March, 2014 – medium term power procurement done through competitive bidding. From April, 2014 – Not applicable as power is procured from Regulated Power Plants.</p> <p>i) MVA as on 06.01.11 = 81269.5 21413.5 MVA</p> <p>ii) Nil</p> <p>iii) Nil ckM as on 06.01.11 = 37812.812</p>	<p><u>BEST Undertaking:</u></p> <p>The data pertains to BEST area of supply. BEST has a PPA with M/s. TPC-G, majority of power requirement is met from TPC-G, Short term peak requirements are met from bilateral purchases and power exchanges. As per the derivatives of MERC the Unit 6 of TPC-G has been shut down from 19th July 2013. This shortfall is also being met through Bilateral purchases and power exchanges.</p>

					ckM as on 31.03.14 = 42578.666
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission / CERC		MERC vide its regulation namely Maharashtra Electricity Regulatory Commission (Multi Year Tariff) Regulations, 2011, has specified the following: RoE for generation – 15.5% (Additional 0.5% shall be allowed if project completes within time limit, otherwise not). ROE for Transmission – 15.5%. RoE for Distribution – Wire Business – 15.5%. Supply Business – 17.5%.
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		As per Multi Year Tariff Regulations, 2011 Regulation 33.3 specifies following: “The repayment for the year of the tariff period FY 2011-12 to FY 2015-16 shall be deemed to be equal to the depreciation allowed for that year”. Regulation 33.6 specifies following: “33.6 The interest on loan shall be calculated on the normative average loan of the year by applying the weighted average rate of interest.” The repayment for the year of the tariff period FY 2011-12 to FY 2015-16 shall be deemed to be equal to the depreciation allowed for that year.
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission		MERC decided Operating Norms for distribution network in MERC MYT Regulation, 2011. Target wires availability for full recovery of RoE on equity capital is specified as under: Rural areas: 90%, Town and cities: 95%. Every 1% under achievement in wires availability RoE on equity capital is reduced by 0.1% and for every over achievement in wires availability RoE on equity capital shall be increased by 0.1%.
(e)	Multi Year Tariff (MYT) i) Has SERC introduced MYT?	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	Yes, the Commission has adopted Multi Year Tariff framework. MERC (terms and conditions of tariff) Regulation 2005 specified first control period from 1 April, 2006 to 31 March, 2009 (3 years). Further second control period from 1 April, 2011 to 31 March, 2016 is specified in MERC (Multi Year Tariff) Regulation, 2011 (5 years).
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?				The Commission has specified standards of performances as per section 58 of the Electricity Act, 2003 and as per Regulation 13 of Maharashtra Electricity Regulatory Commission (Standards of Performance of Distribution Licensees, Period for giving supply and determination of compensation) Regulations, 2005 every Distribution licensee required to furnish information to MERC regarding level of performance.
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?				Every utility carries out studies regarding investment plans for catering load growth, repair and maintenance for old and obsolete equipments. According to that utilities submit DPRs amounting more than 10 Crs. for in principle clearance to MERC.

	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				<p>Mechanism for pass through of gains or losses of uncontrollable factors is stipulated in Regulation 13 of MERC Multi Year Tariff Regulations, 2011. Regulation 13 of MERC Multi Year Tariff Regulation 2011 specifies that the approved gains or loss to the generating company or transmission licenses or distribution licensees on account of uncontrollable factors shall be passed through under Z-Factor charge as adjustment in tariff of respective businesses. Components of Z-Factor Charge:</p> $Z = Z \text{ FAC} + Z \text{ OUC}$ <p>Z FAC = Z Factor – component for FAC Z OUC = Z Factor – component for variation in any other uncontrollable factors.</p>
(f)	Benefits under Clean Development Mechanism (CDM)	Clause 5.3(i) of NTP	State Power Department		<p><u>MAHAGENCO</u> Presently no CDM Thermal Project of Mahagenco is registered with UNFCCC CDM till date</p>
	<p>i) Are CDM costs allowed as a pass through in tariff?</p> <p>ii) No. of cases that have been granted for CDM benefits till dated.</p>				<p><u>MAHAGENCO</u> Presently no CDM benefit is granted to any new project of Mahagenco. Reasons of withdrawal of CDM projects as follows: i) Revised methodology ACM0013 Ver-05.0 published by UNFCCC is not applicable to 1x660 MW & 2x660 MW Koradi project due to stringent conditions of baseline criteria. ii) Carbon market is collapsed hence project does not seem to be financially viable due to low rate of CER (certified emission reduction units) iii) CEA advised not to plan project based on domestic gas till 2015-16 and hence CDM project of 1220 MW gas based project at Uran is cancelled. iv) CDM activities of 210 MW R&M project at Koradi & Nasik is withdrawn due to less return on CER beyond year 2015 as carbon market crashed.</p>
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		Yes
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	Order issued on May 17, 2007 in Case No.42 of 2006 for introduction of availability based tariff regime at state level within Maharashtra. Further the Commission has issued Order dated 11 April, 2014 in the matter of petition of Maharashtra State Load Dispatch Centre (MSLDC) for removal of difficulties in the matter of

	<p>ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);</p> <p>iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.</p>			<p>operation and implementation of the Intra-State ABT Order in Case No.42 of 2006.</p> <p>Order dated May 17, 2007 in Case No.42 of 2006 for introduced availability based tariff in Maharashtra. Main highlights with regard to extending this arrangement to generating station are as follows:</p> <ol style="list-style-type: none"> 1. Settlement of deviations is done on weighted average system marginal price in Maharashtra in order to ensure proper economic signal to market participants. 2. Distribution licensees and the transmission open access users (subject to fulfillment of certain qualification criteria) operating within electricity market of Maharashtra shall be state pool participants. 3. Generators are not considered for imbalance pool settlement. Similar treatment is given to RE generators. 4. With regard to CPP using conventional power sources, deviations on transactions will be accounted at the consumer end as in case of distribution licensees. <p>Whereas the Commission in its Order dated 11 April 2014, Case No.56 of 2012 noted following:</p> <ol style="list-style-type: none"> 1. All members contributing to deviation in the system should be pool members. 2. Commission envisages the migration to the new frequency linked Intra-State ABT mechanism to be in two phases: Phase I – Implementation of de-centralized scheduling and frequency linked deviation settlement mechanism; Phase II – Implementation of State level customization for improving the BSM after ensuring successful implementation of Phase-I. <p>The Commission introduced TOD tariff in Maharashtra in FY 2000-01 vide Order dated April 28, 2000. Peak time usages is charged more and night time usages is offered concession. ToD tariff in Maharashtra has divided each day in following time slots and charged according to consumption during respective time slots</p> <p>Timings 0600 to 0900 hours 0900 to 1200 hours 1200 to 1800 hours 1800 to 2200 hours 2200 to 0600 hours</p>
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission	<p>The Commission has determined Open access charges vide Order dated 13 May, 2013 in Case No.56 of 2013 as below: For FY 13-14 Long term Rs/kW/month-320.22 Short Term Rs/kWH-0.43.</p>
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy	Clause 6.4(1) of NTP & Section 86(1)(e) of	Appropriate Commission / CERC	<p>1.4.2006</p> <p>MERC vide Order dated 16.08.2006 in Case No.6 of 2006 – specified renewable purchase specification from 2006-07 to 2009-10. The Con 07.06.2010 notified</p>

	sources including co-generation by 1 st April, 2006;	EA			
	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				MERC (Renewable Purchase Obligation, its Compliance and Implementation of REC framework) Regulations, 2010 wherein Minimum quantum of purchase from renewabl energy sources is specified. Annexure H provides RPO targets spcificd in MERC (Renewable Purchase Obligation, its Compliance and Implementation of REC framework) Regulation, 2010.
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				Under Section 63 Government of India is required to specify guidelines for procurement of power based on competitive biding, which is awaited.
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months	MERC on 07.06.2010 notified Maharashtra Electricity Regulatory Commission (Terms and conditions for determination of RE Tariff) Regulations, 2010.
10.	TRANSMISSION				
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006	
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year	
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementa tion of CERC regulation	The Commission vide order dated 13.05.13 in Case No.56 of 2013 directed STU should initiate preparatory actions to explore introduction of PoC based Transmission pricing methodology at the Intra Sate level in line with Tariff Policy principles and similar to the methodology as specified by CERC for inter-State transmission pricing.
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		The ABT compatible metering are installed at all the locations i.e. all Transmission-Distribution (T<>D) interface points and also as per the Hon'ble Commission order in Case No.56 of 2012 Dt: 11.04.2014 had reuled for frequency linked mechanism while arriving at a new balancing and settlement mechanism instead of

					Weighted Average System Marginal Price (WASMP) Mechanism.
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		The Commission vide order dated 13.05. 2013 in case No.56 of 2013 directed STU should initiate preparatory actions to explore introduction of PoC based transmission pricing methodology at the Intra State Level.
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		As per MERC MYT Regulations, 2011 target availability for full recovery of annual transmission charges – AC System – 98% HVDC back to back stations: 95% Recovery of annual transmission charges below the level of target availability shall be on prorate basis.
11.	DISTRIBUTION				
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	In June 2010 Commission carried out study on Estimation and Segregation of distribution losses and estimations of unmetered agricultural consumption in Solapur Circle electricity distribution network. Technical losses were determined using network simulation, and factors contributing to losses and associated benchmarks were identified. While considering utility's application for tariff proposals, wherein utility's application is checked for consistency and sufficiency of data. If additional data or corrections are required, then utility files a revised application. MERC vide order dated 26 November 2012 in Case No.41 of 2012 revised load shedding protocol wherein commission accorded approval to implement feeder wise load shedding. Duration of load shedding is based on DCL (Distribution and collection loss) of that particular feeder. Feeders are classified as A, B, C, D, E, F, G1, G2 and G3.
(b)	i) Present AT & C losses (in %) ii) Previous year AT & C losses (in %) iii) Reduction in AT&C Losses over previous year (in %)	Clause 8.2.1(2) of NTP	Appropriate Commission		Detailed information is attached as Annexure G.
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		MERC specifies tariffs for different categories without any consideration of Government subsidy. Post approval of tariff by the Commission, Government of Maharashtra notifies the subsidized tariff for class of consumers. Difference between approved tariff and subsidized tariff is paid by GoM to utility.
	ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?				

(d)	<u>Reduction in cross subsidy</u> i) Whether tariff to all consumers is within +_20% of average cost of supply including agriculture consumer? ii) Whether tariff to all consumers is within +_20% of average cost of supply excluding agriculture consumer?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	While determining the tariff, the commission is ensuring that cross subsidy is being reduced gradually.
(e)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		Agriculture Tariff composed of unmetered tariff and metered tariff. While determining Un-metered triff, zones are categorized based on consumption norm in two categories and fixed/ demand charges (Rs/HP/month) are determined accordingly.
(f)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		Yes
(g)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		MAHADISCOM - RGGVY It is not economical to appoint a regular franchisee in the village electrified under RGGVY. In Maharashtra, MSEDCL getting the job of meter reading, bill distribution, etc. through rural youth of that particular area. MSEDCL has requested to Government to give guidelines to the distribution utilities, vis-a-vis franchisee where win-win situation can be prevailed vide letter No.DIR/Proj/RGGVY/ 19718 dated 24.06.2011. REC vide their letter No.669 dated 11.09.13 has relaxed the condition of deployment of franchisee for new as well as projects in Xth and XIth plan RGGVY scheme. <u>TATA Power/ BEST/ Reliance Infra</u> = N.A.
(h)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	The Commission has introduced TOD tariff in Maharashtra in FY 2000-01 vide order dated April 28, 2000. Tariff in Maharashtra consists of two components i.e. fixed cost (Rs/kw) and variable cost (Rs/kWH). For better management of load, ToD tariff is introduced by MERC. Peak time usages is charged more and night usages is offered concession. ToD tariff in Maharashtra has divided each day in following time slots and charged according to consumption during respective time slots Timings 0600 to 0900 hours 0900 to 1200 hours 1200 to 1800 hours 1800 to 2200 hours 2200 to 0600 hours
(i)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		Yes

(j)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		Order dated 16.08.12 in Case No.19 of 2012 Commission directed MSEDCL that all new connections should be provided on meter basis only.
(k)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		On payment of tariff for temporary connection to that consumer category Distribution licensees provide standby arrangement.

REFORMS MONITORING UNIT PROFORMA

Name of the State: MANIPUR

Status: For the quarter Octobe-December, 2011

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by Electricity Departmnet, Govt of Manipur vide Letter No. 2/4/NEP/IPED/2011/3208-10, dated 4th July, 2012

SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
NATIONAL TARIFF POLICY - 2006						
9.(a)	Procurement of Power through competitive bidding	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	Nil	
	(i) Generation projects through competitive bidding Case-1 and Case-2 till date					
	(ii) Transmission Projects through competitive bidding (Case-2) till date					
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission / CERC			
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission			
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission			
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06		
	i) Has SERC introduced MYT?					
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?					
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?					

	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.					
(f)	Benefits under Clean Development Mechanism (CDM) i) Are CDM costs allowed as a pass through in tariff?	Clause 5.3(i) of NTP	State Power Department		No	
	ii) No. of cases that have been granted for CDM benefits till dated.				Nil	
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		No	Present sale tax on sale of energy does not cover duties, tax & cess etc.
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	NA	
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);					
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.					
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		NA	
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission / CERC	1.4.2006	NA	

	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months	NA
10.	TRANSMISSION				
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006	NA
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year	NA
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	NA
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		NA
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		NA
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		NA

11.	DISTRIBUTION					
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	NA	
(b)	Levels of consumer tariff	Clause 8.2.1(2) of NTP	Appropriate Commission		NA	
(c)	Grant of subsidy	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		NA	
(d)	i) Does SERC specify subsidy tariff for relevant categories? ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?				NA	
(e)	Cost of supply Whether tariff to all consumers is within +_20% of average cost of supply?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	NA	
(f)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		NA	
(g)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		NA	Tariffs as fixed by JERC (M&M) implemented
(h)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		Nil	Under process of take up franchisee in rural areas
(i)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	NA	
(j)	PPA with generating company	Clause 8.4(2) of NTP	State Govt			PPA executed with generating companies.
(k)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		NA	
(l)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		NA	

REFORMS MONITORING UNIT PROFORMA

Name of the State: MEGHALAYA

Status: For the FY 2013-14

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by Power Department Govt. of Meghalaya vide Letter No. Power-132/2011/97 dated 10.10.2014

NATIONAL TARIFF POLICY - 2006						
SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
9.(a)	<p>Procurement of Power through competitive bidding</p> <p>(i) Present power requirement (in MW) of the State</p> <p>(ii) Power requirement (in MW) of the State as on 06.01.2011</p> <p>iii) Increase in Demand (in MW) since 06.01.2011 (i – ii)</p> <p>iv) Whether all this increase in demand since 06.01.2011 is being met through competitive bidding route? (Yes/ No)</p> <p>v) If not, then what % of this increase in demand since 06.01.2011 is being met through competitive bidding route?</p> <p><u>Transmission</u></p> <p>(i) Total transmission capacity added (in MW) in the State after 6.1.2011</p> <p>(ii) Transmission capacity added through competitive bidding route (in MW) in the State after 6.1.2011</p> <p>iii) percentage of transmission capacity added (in MW) through competitive bidding out of total transmission capacity added in the State after 6.1.2011.</p>	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	<p>i) 187 MW</p> <p>ii) 169 MW</p> <p>iii) 18 MW</p> <p>iv) No</p> <p>v) Nil</p>	
					<p>i) 805</p> <p>ii) Nil</p> <p>iii) Nil</p>	
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission/ CERC		Yes	
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		-	

(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission		-	
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	On the process of finalization	
	i) Has SERC introduced MYT?					
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?					
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?					
	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.					
(f)	Benefits under Clean Development Mechanism (CDM)	Clause 5.3(i) of NTP	State Power Department		There are no cases under CDM consideration yet.	
	i) Are CDM costs allowed as a pass through in tariff?					
	ii) No. of cases that have been granted for CDM benefits till dated.					
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		Yes	
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	No	
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				No	

	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				No	
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		Yes	
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission/ CERC	1.4.2006	1%	
	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				No	
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				No	
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months		
10.	TRANSMISSION					
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006		
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year		
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	Yes	

	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		Yes	
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		Yes	
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		Yes	
11.	DISTRIBUTION					
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	Yes	
(b)	i) Present AT & C losses (in %) ii) Previous year AT & C losses (in %) iii) Reduction in AT&C Losses over previous year (in %)	Clause 8.2.1(2) of NTP	Appropriate Commission		Yes	
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories? ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		No	
(d)	Reduction in cross subsidy i) Whether tariff to all consumers is within +_20% of average cost of supply including agriculture consumer? ii) Whether tariff to all consumers is within +_20% of average cost of supply excluding agriculture consumer?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	Yes	
(e)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		Yes	
(f)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt			
(g)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		Yes	
(h)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	No	
(i)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		Yes	
(j)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		No	

(k)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		No	
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REFORMS MONITORING UNIT PROFORMA

Name of the State: Mizoram

Status: For the Financial Year 2013-14

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by Joint Electricity Regulatory Commission for Manipur and Mizoram vide Letter No. H.13011/14/10-JERC, dated 26.06. 2014

NATIONAL TARIFF POLICY - 2006						
SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
9.(a)	<p>Procurement of Power through competitive bidding</p> <p>(i) Present power requirement (in MW) of the State</p> <p>(ii) Power requirement (in MW) of the State as on 06.01.2011</p> <p>iii) Increase in Demand (in MW) since 06.01.2011 (i – ii)</p> <p>iv) Whether all this increase in demand since 06.01.2011 is being met through competitive bidding route? (Yes/ No)</p> <p>v) If not, then what % of this increase in demand since 06.01.2011 is being met through competitive bidding route?</p> <p><u>Transmission</u></p> <p>(i) Total transmission capacity added (in MW) in the State after 6.1.2011</p> <p>(ii) Transmission capacity added through competitive bidding route (in MW) in the State after 6.1.2011</p> <p>iii) percentage of transmission capacity added (in MW) through competitive bidding out of total transmission capacity added in the State after 6.1.2011.</p>	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	<p>i) 197 MW as per 18th EPs</p> <p>ii) 136 MW as per 18th EPs</p> <p>iii) 61 MW</p> <p>iv) No</p> <p>v) Demand is suppressed by restricting release of new connection. DSM is being introduced especially PWW Power Supply is released during off-peak to bridge the gap between demand and supply</p>	
					<p>i) Nil</p> <p>ii) Nil</p> <p>iii) Nil</p>	
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission/ CERC		CERC norms adopted	

(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		Upto 1% of receivables allowed	
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission			
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	No	To be introduced w.e.f. FY 2015-16
	i) Has SERC introduced MYT?				Yet to be conducted	
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?				Under process	
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?				Considered	
(f)	Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.	Clause 5.3(i) of NTP	State Power Department		Yes	CDM not in practice yet
	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				Considered	
(g)	Benefits under Clean Development Mechanism (CDM)	Clause 5.3(i) of NTP	State Power Department		Yes	CDM not in practice yet
	i) Are CDM costs allowed as a pass through in tariff?				Yes	CDM not in practice yet
	ii) No. of cases that have been granted for CDM benefits till dated.	Clause 5.4 of NTP	State Govt		Nil	
	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?				Yes	
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	Yet to be introduced	
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				Yet to be introduced	

	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				Yet to be introduced	
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		Yes	
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission/ CERC	1.4.2006	Yes	
	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				Yes	
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				Yes	
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months	NA	
10.	TRANSMISSION					
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006		
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year		
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	Yet to be implemented	

	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		Yet to be implemented	
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		Yet to be determined	
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		Yet to be determined	
11.	DISTRIBUTION					
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	Yes	
(b)	i) Present AT & C losses (in %) ii) Previous year AT & C losses (in %) iii) Reduction in AT&C Losses over previous year (in %)	Clause 8.2.1(2) of NTP	Appropriate Commission		i) Yet to be received ii) 32.15% iii) NA	
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories? ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		Yes Subsidy is released monthly	
(d)	Reduction in cross subsidy i) Whether tariff to all consumers is within +_20% of average cost of supply including agriculture consumer? ii) Whether tariff to all consumers is within +_20% of average cost of supply excluding agriculture consumer?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	i) Yes ii) Yes	
(e)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		Tariff is comparatively fixed lower	
(f)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		No	
(g)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		No	
(h)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	No	
(i)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		Yes	
(j)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		Yes	

(k)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		Yes	
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REFORMS MONITORING UNIT PROFORMA

Name of the State: NAGALAND

Status: For the quarter April-June, 2012

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by Power Department, Govt of Nagaland vide Letter No.PWR/CEA-7/06 dated 24.08.2012

SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
NATIONAL TARIFF POLICY - 2006						
9.(a)	Procurement of Power through competitive bidding	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	Yet to be acted upon	
	(i) Generation projects through competitive bidding Case-1 and Case-2 till date					
	(ii) Transmission Projects through competitive bidding (Case-2) till date				Yet to be acted upon	
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission / CERC		--	
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		--	
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission		--	
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	Not yet	
	i) Has SERC introduced MYT?					
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?				No	
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?				Not done	

	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				Note done
(f)	Benefits under Clean Development Mechanism (CDM) i) Are CDM costs allowed as a pass through in tariff?	Clause 5.3(i) of NTP	State Power Department		Yet to be initiated
	ii) No. of cases that have been granted for CDM benefits till dated.				Yet to be initiated
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		Yet to be initiated
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	In operation
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				Not extended as there is no generating plant.
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				In operation
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		--
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission / CERC	1.4.2006	NERC has notified RPO Regulation

	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				NERC has notified RPO Regulation
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				Yet to be acted upon
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months	
10.	TRANSMISSION				
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006	--
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year	--
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	Yet to be acted upon.
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		Yet to be acted upon.
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		Yet to be acted upon.
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		--

11.	DISTRIBUTION				
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	Yet to be acted upon.
(b)	Levels of consumer tariff	Clause 8.2.1(2) of NTP	Appropriate Commission		--
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		No subsidy component in DoP tariff.
(d)	ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?				Does not arise.
(e)	Cost of supply Whether tariff to all consumers is within +_20% of average cost of supply?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	Yet to be assessed.
(f)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		Lower tariff given.
(g)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		Loaded in tariff; but State Govt bears a big chunk of the ARR to keep per unit cost of energy low for consumers.
(h)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		Complied as detailed below: Electricity revenue collection and its management in rural areas is done through single point metering (SPM) 1. A single electricity bill based on the meter reading at the distribution transformer is served to the villages concerned. 2. Responsibility of billing and collection from the consumers/households are carried out by the Village Electricity Management Boards (VEMBs).3. The VEMBs deduct 20% as incentive from the collected amount and deposit the balance to the Department's account as Government revenue. 4. The VEMBs are constituted, comprising of the Village Council Chairman and responsible village citizens. * The above is covered under the Nagaland Communitisation of Public Institutions and Services Act, 2002.
(i)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	--
(j)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		Complied (Remarks: 90% of the state power is purchased from CPSUs operating in NE Region. DoP signed PPA with the concerned generating companies.)

(k)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		Not acted upon
(l)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		Not acted upon

REFORMS MONITORING UNIT PROFORMA

Name of the State: ODISHA

Status: For the quarter January-March, 2014

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by Odisha Electricity Regulatory Commission vide Letter No. DIR(T)- 346/08/798 dated 03.06.2014

NATIONAL TARIFF POLICY - 2006						
SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
9.(a)	<p>Procurement of Power through competitive bidding</p> <p>(i) Present power requirement (in MW) of the State</p> <p>(ii) Power requirement (in MW) of the State as on 06.01.2011</p> <p>iii) Increase in Demand (in MW) since 06.01.2011 (i – ii)</p> <p>iv) Whether all this increase in demand since 06.01.2011 is being met through competitive bidding route? (Yes/ No)</p> <p>v) If not, then what % of this increase in demand since 06.01.2011 is being met through competitive bidding route?</p> <p><u>Transmission</u></p> <p>(i) Total transmission capacity added (in MW) in the State after 6.1.2011</p> <p>(ii) Transmission capacity added through competitive bidding route (in MW) in the State after 6.1.2011</p> <p>iii) percentage of transmission capacity added (in MW) through competitive bidding out of total transmission capacity added in the State after 6.1.2011.</p>	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	<p>(i) 3705 MW</p> <p>(ii) 3347 MW</p> <p>(iii) 358 MW</p> <p>(iv) No.</p> <p>(v) Nil (No purchase through competitive bidding route)</p> <p>(ii) Nil</p> <p>(iii) Nil</p>	

(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission / CERC			
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission			
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission			
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	Yes	
	i) Has SERC introduced MYT?					
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?				Through Business Plan Order performance parameter targets are established. However, no study has been conducted.	
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?				No	
	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				The provision for recovery of uncontrollable cost due to Force Majeure Condition has been provided in the MYT Order.	
(f)	Benefits under Clean Development Mechanism (CDM)	Clause 5.3(i) of NTP	State Power Department			
	i) Are CDM costs allowed as a pass through in tariff?					

	ii) No. of cases that have been granted for CDM benefits till dated.					
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt			
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	<p><i>The Commission has framed Intra-State Availability Based Tariff (ABT) Regulations, 2006. The Commission vide its Order dated 07.02.2012 in Case No. 2/2012 has fixed the date of implementation of Intra-State ABT (Phase-I) in real time mode with commercial implication w.e.f. 01.04.2012. The Intra-State ABT (Phase-I) is in operation since 01.04.2012.</i></p> <p>The Intra-State ABT (Phase-II) including generators and captive and Co-generation plants would be implemented shortly.</p>	
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				The Commission has not prescribed differential rates of fixed charges for peak and off-peak hours for better management of load.	

					<p>However, the Commission has determined off-peak hours for the purpose of tariff which shall be from 12 Midnight to 6.00 AM of the next day. Three-phase Consumers having static meters, recording hourly consumption with a memory of 31 days and having facility for downloading printout drawing power during off-peak hours shall be given a discount at the rate of 10 paise per unit of the energy consumed during this period. This discount, however, will not be available to the following categories of consumers.</p> <p>i) Public Lighting Consumers</p> <p>ii) Emergency supply to captive power plants</p>	
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.					
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		The Commission has been determining wheeling charges payable both STOA & LTOA to the transmission Utility of the state every year.	

(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission / CERC	<table><tr><th>Year-wise Target</th><th colspan="4">Minimum quantum of Renewable Energy purchase in % of total Energy consumption in the State</th></tr><tr><th></th><th colspan="2">Renewable</th><th>Co-generation</th><th>Total</th></tr><tr><th></th><th>Solar</th><th>Non-solar</th><th></th><th></th></tr><tr><td>2011-12</td><td>0.1</td><td>1.2</td><td>3.7</td><td>5</td></tr><tr><td>2012-13</td><td>0.15</td><td>1.4</td><td>3.95</td><td>5.5</td></tr><tr><td>2013-14</td><td>0.2</td><td>1.6</td><td>4.2</td><td>6</td></tr><tr><td>2014-15</td><td>0.25</td><td>1.8</td><td>4.45</td><td>6.5</td></tr><tr><td>2015-16</td><td>0.3</td><td>2</td><td>4.7</td><td>7</td></tr></table>					Year-wise Target	Minimum quantum of Renewable Energy purchase in % of total Energy consumption in the State					Renewable		Co-generation	Total		Solar	Non-solar			2011-12	0.1	1.2	3.7	5	2012-13	0.15	1.4	3.95	5.5	2013-14	0.2	1.6	4.2	6	2014-15	0.25	1.8	4.45	6.5	2015-16	0.3	2	4.7	7	<table><tr><th colspan="3">Achieved FY-2012-13</th></tr><tr><th>GRIDCO</th><th>RPO Target in MU</th><th>RPO fulfilled</th></tr><tr><td>Co-generation</td><td>867.89</td><td>702.7</td></tr><tr><td>Non-Solar</td><td>307.61</td><td>283.57</td></tr><tr><td>Solar</td><td>32.96</td><td>17.66</td></tr><tr><td>Total</td><td>1208.46</td><td>1003.93</td></tr></table>			Achieved FY-2012-13			GRIDCO	RPO Target in MU	RPO fulfilled	Co-generation	867.89	702.7	Non-Solar	307.61	283.57	Solar	32.96	17.66	Total	1208.46	1003.93
	Year-wise Target								Minimum quantum of Renewable Energy purchase in % of total Energy consumption in the State																																																												
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10.	TRANSMISSION																																																																				
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration	Clause 7.1(2) of NTP	Central Commission	1.4.2006																																																																	

	advice of CEA					
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year		
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	Not yet done and is under process.	
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		Yes, it has been provided in the OERC (Intra State ABT) Regulation, 2007 notified on 14.02.2008.	
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		The Commission while finalizing the ARR of STU has fixed 3.8% transmission loss for the FY 2013-14. This has been fixed considering the actual loss level achieved/to be achieved by the STU.	
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission			
11.	DISTRIBUTION					
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	Not done. The metering is not completed for	

					appropriate level in the distribution network for which segregation of technical losses has not been achieved.	
(b)	i) Present AT & C losses (in %) ii) Previous year AT & C losses (in %) iii) Reduction in AT&C Losses over previous year (in %)	Clause 8.2.1(2) of NTP	Appropriate Commission			
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission			The Commission does not specify subsidy tariff for any category excepting for BPL/Kutir Jyoti consumers whose tariff has been fixed at Rs. 65/month for consumption within 30 units/month. This is as per Para-5.5.2 of the National Electricity Policy.
	ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?					Not Applicable
(d)	<u>Reduction in cross subsidy</u> i) Whether tariff to all consumers is within +_20% of average cost of supply including agriculture consumer? ii) Whether tariff to all consumers is within +_20% of average cost of supply excluding agriculture consumer?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11		Tariff for all categories of consumers, namely EHT, HT & LT including agriculture are within $\pm 20\%$ in Odisha. Cross-subsidy in Tariff has not been calculated excluding agriculture.
(e)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission			Tariff for agriculture use/irrigation has been kept constant at 120 P/U till date.
(f)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt			
(g)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs			

(h)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year		Two part tariff consisting of a Demand Charge and Energy Charge is already existing for large consumers. Three phase consumers with static meters are allowed to avail TOD rebate excluding Public Lighting and emergency supply to CGP @10 paise/unit for energy consumed during off peak hours. Off peak hours has been defined as 12 Midnight to 6 AM of next day.
(i)	PPA with generating company	Clause 8.4(2) of NTP	State Govt			
(j)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission			No incentives to encourage metering and billing based on metered tariff. However, the Commission has abolished load factor based billing w.e.f. 01.04.2004. The Commission also has allowed average meter reading in case of defecting meter or when the meter is lost. Licensees have been directed to desist from billing on average basis in other cases. Govt. of Odisha vide their notification No.914 dtd.04.02.2013 have been pleased to decide to install prepaid energy meters in government establishments including public sector

						<p>undertakings, autonomous bodies, urban local bodies, govt. societies etc. at State, District and Block levels by 31.03.2013.</p> <p>The Commission has directed that all such consumers who default in payment thrice during a particular financial year should mandatorily be fitted with pre-paid meters.</p>
(k)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission			No tariff for standby arrangements has been determined.

REFORMS MONITORING UNIT PROFORMA

Name of the UT: PUDUCHERRY

Status: For the quarter January-March, 2013

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by Electricity Department vide Letter No.20/ED/SE-III/RPMC/F-17/2013-14 dated 31st May, 2013

SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
NATIONAL TARIFF POLICY - 2006						
9.(a)	Procurement of Power through competitive bidding	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	Not undertaken	
	(i) Generation projects through competitive bidding Case-1 and Case-2 till date					
	(ii) Transmission Projects through competitive bidding (Case-2) till date					
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission / CERC		14%	(Remarks: Action by JERC)
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		Actuals	(Remarks: Action by JERC)
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission			Distribution code notified by JERC.
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	Regulation on MYT issued. However, the order on MYT not issued so far.	
	i) Has SERC introduced MYT?					
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?					Not yet (Remarks: Action by JERC)
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?					Not yet (Remarks: Action by JERC)

	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				Based on the FCA petition filed by EDP, the Commission has pleased to approve recovery of the incremental power purchase costs from the approved categories of consumer.											
(f)	Benefits under Clean Development Mechanism (CDM) i) Are CDM costs allowed as a pass through in tariff?	Clause 5.3(i) of NTP	State Power Department		Nil											
	ii) No. of cases that have been granted for CDM benefits till dated.															
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		Sales tax of 5% on the cost of electricity consumed is being charged to all categories of consumer except Domestic, Agriculture and Hut services.											
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	Not yet (Remarks: Action by JERC)											
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);															
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.															
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		---											
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission / CERC	1.4.2006	Regulations on purchase of Renewable energy by Distribution Licensees was notified by JERC.											
	<table><tr><th>Year</th><th>Minimum % of renewable energy sources (in kWh)</th><th>Total Solar</th><th>Non-Solar</th></tr><tr><td>10-11</td><td>1%</td><td>0.25%</td><td>0.75%</td></tr><tr><td>11-12</td><td>2%</td><td>0.30%</td><td>1.70%</td></tr></table>				Year	Minimum % of renewable energy sources (in kWh)	Total Solar	Non-Solar	10-11	1%	0.25%	0.75%	11-12	2%	0.30%	1.70%
	Year				Minimum % of renewable energy sources (in kWh)	Total Solar	Non-Solar									
10-11	1%	0.25%	0.75%													
11-12	2%	0.30%	1.70%													
ii) Fixation of solar specific renewable purchase obligation of 0.25% by 12-13;																

	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;					12-13	3%	0.40%	2.60%
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months					
10.	TRANSMISSION								
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006					
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year					
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation					
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission						
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission						
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission						
11.	DISTRIBUTION								
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of	Appropriate	March, 2007					

		NTP	Commission																																										
(b)	Levels of consumer tariff	Clause 8.2.1(2) of NTP	Appropriate Commission																																										
(c)	Grant of subsidy	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		Yes, JERC has approved subsidized tarrif rates to certain categories of consumer. The payment of cost of subsidy is compensated to the EDP by the Government of Puducherry through book adjustment.																																								
(d)	i) Does SERC specify subsidy tariff for relevant categories? ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?																																												
(e)	Cost of supply : Whether tariff to all consumers is within +_20% of average cost of supply?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11																																									
(f)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		Rs.100 / HP / Annum																																								
(g)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		<table><tr><th>Category/ Consumption Slab</th><th>Avg Revenue Realization (Rs/kWh)</th><th>ACOS</th><th>%age of ACoS</th></tr><tr><td>Domestic</td><td>1.23</td><td>3.63</td><td>34%</td></tr><tr><td>Commercial</td><td>3.9</td><td>3.63</td><td>107%</td></tr><tr><td>Agriculture</td><td>0.2</td><td>3.63</td><td>5%</td></tr><tr><td>Public lighting</td><td>3.5</td><td>3.63</td><td>96%</td></tr><tr><td>LT Industrial</td><td>3.65</td><td>3.63</td><td>100%</td></tr><tr><td>Temporary supply –LT</td><td>6</td><td>3.63</td><td>165%</td></tr><tr><td>HT 1 – Industrial & Commerical</td><td>4.26</td><td>3.63</td><td>117%</td></tr><tr><td>HT 2 – Government and water tank</td><td>4.34</td><td>3.63</td><td>120%</td></tr><tr><td>HT 3 – EHT</td><td>4.39</td><td>3.63</td><td>121%</td></tr></table>	Category/ Consumption Slab	Avg Revenue Realization (Rs/kWh)	ACOS	%age of ACoS	Domestic	1.23	3.63	34%	Commercial	3.9	3.63	107%	Agriculture	0.2	3.63	5%	Public lighting	3.5	3.63	96%	LT Industrial	3.65	3.63	100%	Temporary supply –LT	6	3.63	165%	HT 1 – Industrial & Commerical	4.26	3.63	117%	HT 2 – Government and water tank	4.34	3.63	120%	HT 3 – EHT	4.39	3.63	121%
Category/ Consumption Slab	Avg Revenue Realization (Rs/kWh)	ACOS	%age of ACoS																																										
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					Ensured																																								
(h)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		No																																								
(i)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	The HT & EHT consumers are charged with two part tariff. The time differentiated tariff has not been implemented.																																								
(j)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		Nil																																								
(k)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission																																										
(l)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission																																										

REFORMS MONITORING UNIT PROFORMA

Name of the State: PUNJAB

Status: For the Quarter ending December, 2014

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by Punjab State Electricity Regulatory Commission vide Letter No. 5527/P SERC/Dir.M&F dated 22.05.2014 and Government of Punjab, Department of Power vide letters No.1/24/03-EB(PR)/850 dated 31st December, 2014 and No.1/24/03-EB(PR)/108 dated 11th March, 2015.

NATIONAL TARIFF POLICY - 2006						
Sr.No.	Name of the Item	Provisions	Action by	Target	Progress	Remarks
9.(a)	Procurement of Power through competitive bidding	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	(i) 11534 MW (Max Unrestricted Demand on 15.07.14)).	
	i) Present power requirement (in MW) of the State.				(ii) 9399 MW (Max unrestricted Demand on 17.07.10).	
	ii) Power requirement (in MW) of the State as on 06.01.2011.				(iii) 2135 MW	
	iii) Increase in Demand (in MW) since 06.01.2011 (i – ii)				(iv) 5.49 MU of energy was purchased on short term basis (including power purchase through exchange)	
	iv) Whether all this increase in demand since 06.01.2011 is being met through competitive bidding route? (Yes/ No)				(v) 5.49 MU of energy was purchased on short term basis (excluding power purchase through exchange)	
	v) If not, then what % of this increase in demand since 06.01.2011 is being met through competitive bidding route?					
	<u>Transmission</u>					
	i) Total transmission capacity added (in MW) in the State after 6.1.2011.				(i) 719 S.Stns./6699.10MVA	
	ii) Transmission capacity added through competitive bidding route (in MW) in the State after 6.1.2011.				(ii) NIL	
	iii) Percentage of transmission capacity added (in MW) through competitive bidding out of total transmission				(iii) 100% work done by the department	

	capacity added in the State after 6.1.2011.					
b)	Return on investment (%)	Clause 5.3(a) of NTP	Appropriate/ Commission/ CERC		Return on Investment @ 15.5% has been allowed to PSPCL and PSTCL amounting to Rs.942.62 Crore and Rs.93.90 Crore respectively for FY 2012-13 and FY2013-14 on the equity amount vested with the utilities in the Transfer Scheme (Notified by GoP) vide Notification dated 24.12.2012.	
c)	Cost of Debt	Clause 5.3(d) of NTP	Appropriate Commission		<p><u>For the year 2013-14 (Review):</u> The interest cost of debt (net) in the Tariff Order 2014-15 has been approved at Rs.2222.75 crore (Rs.1932.27.58 crore for PSPCL & Rs.290.48 crore for PSTCL).</p> <p><u>For the year 2014-15 (Projections).</u> The interest cost of debt (net) in the Tariff Order for FY 2013-14 has been approved at Rs.2586.23 crore (Rs. 2236.78 crore for PSPCL and Rs. 349.45 crore for PSTCL).</p>	
d)	Operating Norms for distribution network	Clause 5.3 (f) of NTP	Appropriate Commission		PSERC is incorporating operating norms for distribution network in MYT Regulations which have been notified on 01.07.14.	
e)	Multi Year Tariff(MYT) i) Has SERC introduced MYT? ii) Whether any study conducted for benchmarking performance to	Clause 5.3 (h) of NTP & 5.4.4. of NEP.	Appropriate Commission	01.04.2006	<p>i) MYT Regulations have been notified on 01.07.14.</p> <p>ii) The Commission has made the provision in the MYT Regulation</p>	

	<p>establish desired performance standards?</p> <p>iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?</p> <p>iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes and cess, variation in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.</p>				<p>that the base line values shall be based on figures approved by the Commission in the past, latest audited accounts, estimate of the expected figures for the relevant year, industry bench marks/norms and other factors considered appropriate by the Commission. The Commission will finalize the performance standard at the time of processing of first MYT Petition to be filed by the Generators/ Licensees in the State, after introduction of MYT, on the basis of above said principles.</p> <p>iii) No such studies have yet been carried out by the utilities in the State.</p> <p>iv) Provisions have been made in the MYT regulations with regard to recovery of uncontrollable cost.</p>	
(f)	<p>Benefits under Clean Development Mechanism (CDM)</p> <p>i) Are CDM costs allowed as a pass through in tariff?</p>	Clause 5.3 (i) of NTP	State Power Department		<p>(i) Presently no cost has been incurred on CDM project, so no cost is passed through in tariff.</p>	
	<p>ii) No. of cases that have been granted for CDM benefits till dated.</p>				<p>25 no schemes for HVDS of Agricultural pumpsets have been registered for CDM benefits with World Bank and also finalized</p>	

					<p>CDM Operational Manual. All concerned departments of PSPCL (Grid Substation, IT and DS Organization) had already been requested to immediate provide/ maintain data. Monitoring and compilation of data is underway as per CDM Operational Manual. Recently, a pre-site verification visit was also organized by World Bank from 26.11.14 to 28.11.14 wherein auditors (M/s TuV Nord) has visited 2 No substations to verify the data being monitored by PSPCL on sample basis.</p> <p>Pre verification site visit report is yet to be received from world bank. After compliance of the observations made in report, final verification of the project shall be carried out and PSPCL shall earn benefits after successful verification by Auditors.</p>	
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		<p>The Electricity Duty (E.D.) is imposed upon the consumer, who generate electricity and sell the same to others w.e.f. 1-4-2010 through open access/PPA. No cess is imposed upon E.D. No E.D. is charged from the parties generating energy for self use.</p>	
(h)	<p>i) Introduction of availability based tariff by April, 2006.</p> <p>ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs).</p> <p>iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.</p>	Clause 6.2(1) of NTP	Appropriate Commission	April, 2006	<p>i) & ii) Generation and Distribution business are being carried out by the same company in the State and the costs have not been segregated for generation business and distribution business by the Company/ Utility. As such, introduction of ABT at this stage is not considered desirable.</p> <p>iii) PSERC has introduced the Time of Day (ToD) tariff for six months (October to March) of the year from FY 2013 onwards, during off peak hours from 22:00 hrs. to</p>	

					06:00 hrs. for Large Supply Industrial Category. The period of ToD was extended for two months i.e. April & May, 2014 by PSERC vide Order dated 28.02.2014. Further in the Tariff Order for FY 2014-15, PSERC has extended the ToD Tariff to Medium Supply Industrial Category also. The commission approved the ToD Tariff during six months (October to March) of FY 2014-15 for Large Supply and Medium Supply Industrial Categories with a rebate of Rs.1.50/Kvah for Large Supply and Rs.1.00/Kvah for Medium Supply categories on the normal tariff.	
(i)	Determination of wheeling charges.	Clause 6.3 of NTP	Appropriate Commission		PSERC has framed Regulations for Harnessing of Captive Generation wherein various terms and conditions for sale of surplus firms/infirm power have been laid down.	
(j)	i) Fixation of percentage for purchase of energy through non-conventional/renewable energy sources including co-generation by 1 st April, 2006. ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13. iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate/ Commission/ CERC	1.4.2006	<u>Sr. No.(i) & (ii)</u> PSERC has specified Renewable Purchase Obligation including Solar Specific for compliance by the obligated entities for the year 2011-12 to 2014-15 in its Regulations, PSERC (Renewable Purchase Obligations and its compliance) Regulations, 2011.	

	<p>offering energy from same type of non-conventional sources as far as possible.</p> <p>iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.</p>			Within three months	<p><u>Sr. No.(iii) & (iv).</u></p> <p>PSERC vide Order dated 05.09.2014 has determined the generic tariff for renewable energy projects to be commissioned in FY 2014-15. In the said order, the Commission has held that in case tariff based competitive bids are invited for purchase of electricity from RE Power Projects and the per unit tariff offered by the lowest bidder is less than the tariff determined by the Commission in this Order, a petition shall be filed by the procurer for consideration and adoption of tariff by the Commission under Section 63 of the Electricity Act, 2003. It has also been held in the same order that till such time tariff based competitive bidding is resorted to, bidding may be carried out on the basis of discount to be offered by the prospective bidders on the generic tariffs determined by the Commission in the order, which would be the maximum tariff for the purpose.</p>	
10	TRANSMISSION					
(a)	<p>(iii) Intra-State Transmission frame work on the lines of Inter-State frame work in transmission bases on factors of voltage, distance, direction and quantum of flow.</p> <p>(iv) Compatible metering with ABT requirements and also for facilitating</p>	Clause 7.1 (7) of NTP	Appropriate Commission	Within two years after implementation of CERC Regulations	<p>iii) The Inter - State transmission Pricing Framework has been introduced w.e.f. 1.7.2011. The introduction of Intra- State Transmission Price mechanism shall be initiated after obtaining the results of Inter - State Transmission</p>	

	implementation of time of day tariffs.	Clause 7.1 (8) of NTP	Appropriate Commission	<p>Framework.</p> <p>iv) Presently, power received from Central Sector Projects through Inter-State Transmission network is being accounted for using ABT compliant SEM meters installed at Interstate Interface Points.</p> <p>Within the State, Open Access consumers are also being metered through ABT meters. PSTCL is in the process of installing ABT meters at Interface/ Boundary Points of PSTCL & PSPCL. PSTCL has intimated that the work order to install the meter has been issued on 26.10.2012. Total 750 Availability Based Tariff (ABT) meters and 450 nos. Conventional nergy Meters (CEMs) have been ordered to the firm. Around 700 Special Energy Meters (SEMs)/ Availability based tariff (ABT) meters and 390 Conventional Energy Meters (CEMs) have been installed at 189 locations.</p> <p>Centralized Energy Centre (CEC) has been set up at SLDC, Ablowal, Patiala and server hardware along with racks, firewalls, switches have been installed. Major modules of the developed software are under testing. This project was scheduled to be completed during July, 2013 but got delayd due to some technical issues in respect of communication connectivity. With the commissioning of Boundary Metering Project, the transmission losses of PSTCL is likely to be</p>	
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					available shortly as a special software team from Singapore has undertaken the installation of Multi-drive software. Further, the Commission in its Tariff Order for FY 2014-15 has issued the directives to PSTCL to expedite the commissioning of the project.	
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA.	Clause 7.2 (1) of NTP	Appropriate Commission		Punjab State Electricity Board has been unbundled w.e.f. 16.4.2010 into two companies i.e. Punjab State Power Corporation Limited (PSPCL) entrusted with Generation, Trading, Distribution and Retail supply business and Punjab State Transmission Corporation Limited (PSTCL) entrusted with Transmission function including SLDC functions. Once the operations of these unbundled utilities get stabilized, PSERC will initiate studies.	
(c)	Key performance indicators (KPI) for transmission.	Clause 7.3 of NTP	Appropriate Commission		Key Performance Indicators (KPI) for transmission specified in PSERC (Terms and Conditions for Determination of Tariff) Regulations, 2005 as amended vide Notification No. PSERC/ Secy./Regu.74 dated 17.09.2012.	
11.	DISTRIBUTION					
(a)	Scrutiny of financial and technical data.	Clause 8.2.1(2) of NTP	Appropriate Commission	March,2007	Scrutiny of financial and technical data is being done by PSERC while processing of ARRs filed by the Utilities.	
(b)	i) Present AT & C losses (in %age). ii) Previous year AT & C losses (in	Clause 8.2.1(2) of NTP	Appropriate Commission		i) T&D losses @16% for FY 2014-15 were projected by Licensee in the ARR for FY 2014-15. ii) T&D losses @16.50% for FY	

	%age). iii) Reduction in AT & C losses over previous year (in %age).				2013-14 were projected by the Licensee in the ARR for FY 2013-14. iii) Reduction of 0.50% in T&D Losses projected by Licensee in the ARR for FY 2014-15.	
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories? ii) Is the State Government releasing subsidy in advance? Periodicity at which subsidy released?	Clause 8.2.1(3) of NTP and Section 65 of EA	Appropriate Commission		i) Yes. ii) Government of Punjab is releasing subsidy in monthly installments in advance. In case of delay, interest is levied.	
(d)	<u>Reduction in cross subsidy</u> (i) Whether tariff to all consumers is within $\pm 20\%$ of average cost of supply including agriculture consumer? (ii) Whether tariff to all consumers is within $\pm 20\%$ of average cost of supply excluding agriculture consumer?	Clause 8.3 (2) of NTP	Appropriate Commission	End of 2010-11	i) & ii) The tariff for various categories of consumers (except AP category) is within $\pm 20\%$ of average cost of supply, as per Tariff Order FY 2013-14.	
(e)	Tariff for agricultural use	Clause 8.3 (3) of NTP	Appropriate Commission		This is in line with the observations of the Commission in Tariff Order 2007-08 wherein it was observed that there are several practical difficulties in evolving a normative limit for subsidized agricultural consumption given variations in agro-climatic conditions and differing cropping patterns in the State. Even if such a norm could over time be evolved, practical enforcement of minimum consumption limits for each consumer would be impossible in the absence of complete metering of agricultural connections.	
(f)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt	Fixing of Tariff and	The Commission determined the voltage wise-category wise cost of service in the Tariff Order for FY	

				quantum of subsidy for any category is prerogative of the PSERC	<p>2013-14 and 2014-15.</p> <p>In order to move in the direction of cost of supply in steps, the Commission, in tariff order, decided to give rebate of 25 paise/unit to all consumers getting supply at 220/132 kV, 20 paise/unit to all consumers getting supply at 66/33 kV and 15 paise/unit to DS, NRS, AP High-Technology, Compost Plants/Solid Waste Management Plants for Municipalities/Urban Local Bodies and MS category consumers getting supply at 11 kV.</p> <p>Further, the Commission increased the rebate to 30 paise/ unit to all consumers getting supply at 220/132 KV, 25 paise/ unit to all consumers getting supply at 66/33 KV and 20 paise/ unit to DS, NRS, AP High Technology, Compost plants/ Solid Waste Management Plants for Municipalities/ Urban Local Bodies and MS categories consumers getting supply at 11 KV in the Tariff Order for FY 2014-15.</p>	
(g)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		Billing & collection in some of Rural Areas is being done through spot billing by the Franchisee.	
(h)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4 (1) of NTP	Appropriate Commission	Within one year	The Commission in its Tariff Order for FY 2014-15 has observed that there is considerable opposition from various categories of Consumers for introduction of Two Part Tariff in the State. Many objectors have submitted their apprehensions and there is general fear in the mind of the consumers that the amount of their bill will increase if the Two Part Tariff proposal submitted by PSPCL is introduced in the present form.	

					<p>PSPCL has supplied to allay the apprehensions of the objectors in its reply to the objections raised. During the public hearing also, there were considerable opposition from various categories of consumers. On examination of the proposal submitted by PSPCL, the Commission has also observed that the proposal will affect the majority of consumers adversely, particularly the consumers have low consumption. There was a need for building of consensus amongst various stakeholders before introduction of Two Part Tariff in the State. The Commission, therefore, directs PSPCL to examine the issues raised by the consumers/ consumer organizations and thereafter resubmit the Two Part Tariff proposal after addressing the concerns of the majority of consumers/ consumer Organizations.</p> <p>PSERC has introduced the Time of Day (ToD) tariff for 6 months (October to March) of the year from FY 2013 onwards, during off peak hours from 22:00 hrs. to 06:00 hrs for Large Supply Industrial Category. The period of ToD was extended for 2 months i.e. April & May, 2014 by PSERC vide Order dated 28.02.14. Further, in the Tariff Order for FY 2014-15, PSERC has extended the ToD Tariff to Medium Supply Industrial Category also. The</p>	
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					Commission approved the ToD Tariff during six months (October to March) of FY 2014-15 for Large Supply and Medium Supply Industrial Categories with a rebate of Rs.1.50/ Kvah for Large Supply and Rs.1.00 Kvah for Medium Supply categories on the normal tariff.			
(i)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		Name of Company		Capacity in MW	Date of signing of PPA
					M/s Nawan Shahar Power Pvt. Ltd., Nawan Shahar		15 MW	21.07.2014
					M/s International Mega Food Parl Ltd, Chandigarh		Up to 4 MW	04.08.2014
(j)	Incentives to encourage metering and billing based on metered tariff.	Clause 8.4 (3) of NTP	Appropriate Commission		All the consumers except AP category consumers are metered in the State. The supply to AP category is fully subsidized by the State Govt.			
(k)	Tariff for stand-by arrangements	Clause 8.5 (6) of NTP	Appropriate Commission		PSERC in its Open Access Regulations notified in July, 2011 has made provision for charging UI rates from such consumers			

REFORMS MONITORING UNIT PROFORMA

Name of the State: RAJASTHAN

Status: For the quarter January-March, 2014

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by Rajasthan Rajya Vidyut Prasaran Nigam Ltd. vide Letter No. RVPN/CE(NPP&R)/SE(NPP&R)/NPP-3/F.657/D.387 dated 14.07.2014

NATIONAL TARIFF POLICY - 2006						
SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
9.(a)	Procurement of Power through competitive bidding (i) Present power requirement (in MW) of the State (ii) Power requirement (in MW) of the State as on 06.01.2011 (iii) Increase in Demand (in MW) since 06.01.2011 (i – ii) iv) Whether all this increase in demand since 06.01.2011 is being met through competitive bidding route? (Yes/ No) v) If not, then what % of this increase in demand since 06.01.2011 is being met through competitive bidding route? <u>Transmission</u> (i) Total transmission capacity added (in MW) in the State after 6.1.2011 (ii) Transmission capacity added through competitive bidding route (in MW) in the State after 6.1.2011 (iii) Percentage of transmission capacity added (in MW) through competitive bidding out of total transmission capacity added in the State after 6.1.2011.	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11		(i) 9500 MW (ii) 6406 MW (iii) 3094 MW (iv) No (V) 14%
						(i) 20013 MW (ii) NIL (iii) 0%

(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission/ CERC		State Commission has allowed a Return on Equity (RoE) of 15.50% for conventional generating companies and transmission licensee and a RoE of 16% has been allowed for Distribution licensees and Renewable Energy Generation in the State.	
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		<p>Commission presently allows interest on term loan as a pass through for conventional generating stations, transmission licensees and Distribution Licensees. Interest charges are computed by considering weighted average rate of interest on the basis of actual loans, actual interest rates as scheduled loan repayment. Commission has further provided that the generating company, transmission licensee and distribution licensee shall make every effort to refinance the loan as long as it results in net savings on interest and the cost associated with such refinancing is to be borne by the beneficiaries and the generating companies, transmission licensee and distribution licensee in the ratio 2:1.</p> <p>For Renewable Energy projects, a bench mark interest rate of average SBI base rate prevalent during the first six months of the year previous to the relevant year plus 300 basis points has been specified.</p>	
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission		The Commission has prescribed operating norms for distribution vide RERC (Terms and Conditions for Determination of Tariff) Regulations, 2009 and as well as in Tariff Regulations for next control period i.e. for FY 2014-15 to 2018-19.	
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06		Multi Year Tariff (MYT) framework implemented since FY 2009-10
	i) Has SERC introduced MYT?					No
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?					No
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?					No

	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.					As per regulation 9 of the Tariff Regulations, 2014, the approved gain or loss to the licensee on account of uncontrollable factors shall be allowed as an adjustment in the tariff over such period as may be stipulated in the order of the Commission.
(f)	Benefits under Clean Development Mechanism (CDM) i) Are CDM costs allowed as a pass through in tariff? ii) No. of cases that have been granted for CDM benefits till dated.	Clause 5.3(i) of NTP	State Power Department			The Tariff Regulation 2009 prescribes that CDM benefit shall be shared in ratio 25:75 between Distribution licensee and developer. This 25% will be passed to the consumers.
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt			Yes, as information provided by JVVNL.
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006		Specified w.e.f. 24.08.2006
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);					As per the Regulation specified as above
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.					At present the ToD tariff is not applicable in the State of Rajasthan.
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission			Wheeling charges have been determined based on the petition filed by Discoms. There is also a provision in RERC (Terms and Conditions for Determination of Tariff) Regulations, 2009 and as well as in Tariff Regulations for next control period i.e. for FY 2014-15 to 2018-19.
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission/ CERC	1.4.2006		Commission vide Notification dated 20 th , February 2014 while making third amendment in RERC (Power Purchase & Process of Distribution Licensee) Regulations, 2004 has specified RPO for distribution licensees as under:

					<table><tr><th rowspan="2">Year</th><th colspan="4">Obligation expressed as percentage of energy consumption (%)</th></tr><tr><th>Wind</th><th>Bioma ss</th><th>Solar</th><th>Total</th></tr><tr><td>2014-15</td><td>6.8</td><td>0.70</td><td>1.50</td><td>9.00</td></tr><tr><td>2015-16</td><td>7.30</td><td>0.90</td><td>2.00</td><td>10.20</td></tr><tr><td>2016-17</td><td>7.80</td><td>1.10</td><td>2.50</td><td>11.40</td></tr></table> <p>Further, for CPP and OA consumers, the RPO targets w.e.f. FY 2014-15 are under the process. The proposed RPO targets for CPP and OA consumers are as under:</p> <p>(A) CPP & OA consumers with total capacity of 10 MW & above:</p> <table><tr><th rowspan="2">Year</th><th colspan="3">Obligation expressed as percentage of energy consumption (%)</th></tr><tr><th>Non-Solar</th><th>Solar</th><th>Total</th></tr><tr><td>2014-15</td><td>7.50</td><td>1.50</td><td>9.00</td></tr><tr><td>2015-16</td><td>8.20</td><td>2.00</td><td>10.20</td></tr><tr><td>2016-17</td><td>8.90</td><td>2.50</td><td>11.40</td></tr></table> <p>(B) CPP & OA Consumers with capacity of 1 MW and above, but less than 10 MW:</p> <table><tr><th>Year</th><th>Obligation expressed as percentage of energy consumption (%)</th></tr><tr><td>2014-15</td><td>9.00</td></tr><tr><td>2015-16</td><td>10.20</td></tr><tr><td>2016-17</td><td>11.40</td></tr></table>	Year	Obligation expressed as percentage of energy consumption (%)				Wind	Bioma ss	Solar	Total	2014-15	6.8	0.70	1.50	9.00	2015-16	7.30	0.90	2.00	10.20	2016-17	7.80	1.10	2.50	11.40	Year	Obligation expressed as percentage of energy consumption (%)			Non-Solar	Solar	Total	2014-15	7.50	1.50	9.00	2015-16	8.20	2.00	10.20	2016-17	8.90	2.50	11.40	Year	Obligation expressed as percentage of energy consumption (%)	2014-15	9.00	2015-16	10.20	2016-17	11.40
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	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				As above	
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				Guidelines yet to framed by Gol	
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months		Pertains, to CERC
10.	TRANSMISSION					
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006		Pertains, to CERC
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year		Pertains, to CERC
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation		RERC Tariff Regulations 2014 contain the enabling provisions for determination of transmission charges based on Network Access Charges and Network Usage Charges.
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission			RERC has notified the RERC (Intra-state ABT) Regulations, 2006. Implementation is under process.
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission			Yet to be done

(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission			Yet to be done																								
11.	DISTRIBUTION																													
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	All the Discoms in Rajasthan are State Owned and are not claiming any Return on Equity. Their accounts are audited by independent Chartered Accountants and subsequently scrutinized by CAG. Looking to the above facts, Commission has not considered the Scrutiny of financial data, presently. Regarding independent verification of technical data it is stated that Discoms in Rajasthan have undertaken the RAPDRP scheme with focus on establishment of base line data ,fixing of accountability and reduction of AT&C losses through strengthening of network and adoption of Information Technology which, inter-alia, covers Consumer Indexing, GIS Mapping and Metering of Distribution Transformers and Feeders. As per the Scope of RAPDRP scheme, Ministry of Power ,GOI throughNodal agency PFC , is required to appoint third party independent evaluating agencies(TPIEA)for verification of base figures of AT&C losses, baseline data and Yearly AT&C losses of Project Areas and Discoms. M/s PFC has appointed M/s Voyants, Gurgaon as TPIEA-EA. The scope of third party verification also covers verification of annual AT&C losses of Project Area which presently covers 87 major towns of Rajasthan with population more than 30,000. The scope also covers verification of annual AT&C losses of the entire Discoms(s) from their records. The Commission has directed the Discoms to furnish the reports after they are finalized by the third party.																									
(b)	i) Present AT & C losses (in %) ii) Previous year AT & C losses (in %) iii) Reduction in AT&C Losses over previous year (in %)	Clause 8.2.1(2) of NTP	Appropriate Commission		<table><tr><td colspan="4">AT&C losses</td></tr><tr><td>Name of Discom</td><td>FY 12-13 (Provisional)</td><td>FY 11-12 (as per true up petition)</td><td>Reduction in losses</td></tr><tr><td>JVVNL</td><td>19.09%</td><td>19.86 %</td><td>-0.77%</td></tr><tr><td>AVVNL</td><td>20.65%</td><td>22.11%</td><td>1.46%</td></tr><tr><td>JdVVNL</td><td>18.13%</td><td>18.06%</td><td>-0.07%</td></tr><tr><td>Rajasthan</td><td>19.23%</td><td>19.94%</td><td>-0.71%</td></tr></table>		AT&C losses				Name of Discom	FY 12-13 (Provisional)	FY 11-12 (as per true up petition)	Reduction in losses	JVVNL	19.09%	19.86 %	-0.77%	AVVNL	20.65%	22.11%	1.46%	JdVVNL	18.13%	18.06%	-0.07%	Rajasthan	19.23%	19.94%	-0.71%
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Rajasthan	19.23%	19.94%	-0.71%																											

(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		Commission determines the tariff for each category without considering the element of subsidy. If state Govt. Wants to subsidize any category of consumers may do so by providing subsidy in advance in the manner as prescribed in RERC's Tariff Regulations.
	ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?				Regulation 14 of RERC Tariff Regulations provides following treatment of Government subsidy: (1) If the State Government requires the grant of any subsidy to any consumer or class of consumers in the tariff determined by the Commission, the State Government shall pay in advance the amount to compensate the Licensee/ personaffected by the grant of subsidy in the manner specified in this Regulation. (2) If the subsidy amount is more than Rs 5Crore, the payment of subsidy may be done on monthly basis while annual payment of subsidy shall be done if the amount is less than Rs 5 Crore.
(d)	<u>Reduction in cross subsidy</u> i) Whether tariff to all consumers is within +_20% of average cost of supply including agriculture consumer? ii) Whether tariff to all consumers is within +_20% of average cost of supply excluding agriculture consumer?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	At present tariff for all categories of consumers is approximately within \pm 20% of average cost of supply except agriculture.

					<div><div>(ii)All others not covered under items (i) & and getting supply more than block hours</div><div>Rs. 4.95/unit</div><div>Rs.30/ HP/ month of SCL Maximum Rs. 500/ month/consumer(S ubsidy above Rs 50/Connection / Month)</div></div> <div><div>Flat/ unmetered (AG/FR/LT-4)</div><div></div><div></div></div> <div><div>(i) General (getting supply in block hours)</div><div>Rs. 500/ HP/ Month</div><div>Rs.15/ HP/ month of SCL Maximum Rs 250/ month/consumer(S ubsidy above Rs 15/Connection / Month)</div></div> <div><div>(ii)All others not covered under items (i) & and getting supply more than block hours</div><div>Rs 600/ HP/ Month</div><div>Rs.30/ HP/ month of SCL Maximum Rs 500/ month/consumer(S ubsidy above Rs 20/Connection / Month)</div></div>
(f)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		<div></div> <div>Ajmer Discom: Tariff being proposed looking to all aspects including reflecting cost of service.</div> <div>Jodhpur Discom: Tariff is proposed looking to all aspects including reflecting cost of service</div> <div>Jaipur Discom: Rs. 6.59 /unit</div>
(g)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		<div></div> <div>Proposals are under examination looking to the practical aspects</div>

(h)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	Two part tariff has already been introduced in the State vide Commission's tariff order dt. 24.3.2001 for all categories of consumers.	
(i)	PPA with generating company	Clause 8.4(2) of NTP	State Govt			Long term PPA with State generators in Rajasthan are already in existence.
(j)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		No incentive is being given to encourage consumers to shift to metered category as in Rajasthan un metered tariff is applicable only for a small fraction of agriculture consumers. No new connections are released under un metered tariff and Commission has already issued directions for conversion of these unmetered agriculture consumers to metered category in a time bound manner.	
(k)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission			Temporary tariff as applicable to HT category

REFORMS MONITORING UNIT PROFORMA

Name of the State: SIKKIM

Status: For the quarter April-June, 2012

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by Energy and Power Department, Government of Sikkim vide Letter No.16/Monet/E&D/12-13 dated 3.09.2012

SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
NATIONAL TARIFF POLICY-2006						
9.(a)	Procurement of Power through competitive bidding	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	Sikkim is a power surplus state and power is not being procured on long / medium term basis at present.	
	(i) Generation projects through competitive bidding Case-1 and Case-2 till date					
	(ii) Transmission Projects through competitive bidding (Case-2) till date					Nil
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission / CERC		This is covered by Tariff Regulations which are being finalized.	
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		This is covered by Tariff Regulations which are being finalized.	
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission		This would be considered in course of time.	
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	SERC has just begun its work and one tariff order was issued on suo-motu basis. MYT will be introduced in course of time.	
	i) Has SERC introduced MYT?				Would be considered in course of time.	
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?				Would be considered in course of time.	
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?				Would be considered in course of time.	

	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				Under process.
(f)	Benefits under Clean Development Mechanism (CDM) i) Are CDM costs allowed as a pass through in tariff?	Clause 5.3(i) of NTP	State Power Department		No.
	ii) No. of cases that have been granted for CDM benefits till dated.				Nil.
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		Not applicable
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	Sikkim has only small generating capacity, that too hydro ABT will be introduced at appropriate time.
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				Under process. SERC is drafting the regulations.
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				Under process. SERC is studying through consultant. This will be considered in the next tariff order.
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		Under process. This will be determined in the next tariff on obtaining the required data.
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission / CERC	1.4.2006	This will be finalized shortly.

	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				This will be finalized shortly.
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				Under process. SERC is studying the issue. However this may not be relevant as the state requirement shall be met from its own resource.
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months	
10.	TRANSMISSION				
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006	
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year	
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	It would be considered at appropriate time.
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		It would be considered at appropriate time.
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		It would be considered at appropriate time.
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		At appropriate time.

11.	DISTRIBUTION				
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	This will be done, when MYT frame work is implemented.
(b)	Levels of consumer tariff	Clause 8.2.1(2) of NTP	Appropriate Commission		This will be done, when MYT frame work is implemented.
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		SERC has not specified any subsidy however state govt is committed to provide 50 unit's free electricity to the rural consumers For this state govt shall provide subsidy to the E & P Dept.
(d)	ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?				State govt has not so far released subsidy amount in advance but the entire burden of E& P Dept is being supported by state funding.
(e)	Cost of supply Whether tariff to all consumers is within +_20% of average cost of supply?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	SERC has just started functioning. This will be considered in course of time.
(f)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		Not applicable for Sikkim State.
(g)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		SSERC starting functioning from the last quarter of 2011-2012. During filing of tariff revision request to SSERC tariff reflecting cost of service will be taken into account
(h)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		Under Rajiv Gandhi Grammin Vidyutikaran Yojana (RGGVY) Government of Sikkim, Energy and Power department had floated notice inviting tender viz No. 61/GoS/E&P/2007/1275 dated 21/2/2011 for franchisees for nine packages. But of which the response was received from package3,package5, package6 and the letter of intent have been issued to package 5 & 6.Thus collection based rural franchisees will soon be established in the state.
(i)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	Time differential tariff would be considered in course of time.
(j)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		Energy and Power Dept meets its requirement i) from its own generation, ii) from its free share of power ,iii) from its share under central generating units. In all the above cases PPA may not be relevant for obtaining competitive rates. For project under development with IPP, the developers have entered in PPA with the end purchasers.
(k)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		Metered tariff is in force.
(l)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		Such cases are not in operation now.

REFORMS MONITORING UNIT PROFORMA

Name of the State: **TAMIL NADU**

Status: **For the Financial Year 2013-14**

Progress of Reform Measures as per the **National Tariff Policy 2006**

Status reported by Tamil Nadu Electricity Regulatory Commission vide Letter No. TNERC/D(T)/DD(T1)/F.CEA, dated 25.06. 2014

NATIONAL TARIFF POLICY - 2006						
SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
9.(a)	<p>Procurement of Power through competitive bidding</p> <p>(i) Present power requirement (in MW) of the State</p> <p>(ii) Power requirement (in MW) of the State as on 06.01.2011</p> <p>iii) Increase in Demand (in MW) since 06.01.2011 (i – ii)</p> <p>iv) Whether all this increase in demand since 06.01.2011 is being met through competitive bidding route? (Yes/ No)</p> <p>v) If not, then what % of this increase in demand since 06.01.2011 is being met through competitive bidding route?</p> <p><u>Transmission</u></p> <p>(i) Total transmission capacity added (in MW) in the State after 6.1.2011</p> <p>(ii) Transmission capacity added through competitive bidding route (in MW) in the State after 6.1.2011</p> <p>iii) percentage of transmission capacity added (in MW) through competitive bidding out of total transmission capacity added in the State after 6.1.2011.</p>	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	<p>TNGDCL: TANGEDCO has approved establishment of 2X800 MW Thermal Power Project at Upper in Ramnad district under Case-2 tariff based bidding. The approval of GoTN is awaited.</p> <p>TNGDCL: NIL projects have been undertaken.</p>	
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission/ CERC		14% p.a. as per Tariff Regulations.	
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		Cost of actual debt is allowed.	

(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission		The permissible limits for voltage variation have been specified in the Distribution Standards of Performance Regulations, 2004.	
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	Yes	
	i) Has SERC introduced MYT?				No	
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?					
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?					
	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				Considered in the respective tariff orders. However, due to wide gap, regulatory asset was created in the Tariff Orders of 2013 -14 so that recovery of the same can be done in a phased manner	
(f)	Benefits under Clean Development Mechanism (CDM)	Clause 5.3(i) of NTP	State Power Department		In the case of renewable power, the CDM benefit shall be shared in the ratio of 50:50 by developer and the distribution licensee.	
	i) Are CDM costs allowed as a pass through in tariff?					
	ii) No. of cases that have been granted for CDM benefits till dated.					
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt			
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006		
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				Yet to be implemented. Distribution Licensee has been directed to provide ABT Meters to all Generating Stations including Grid connected	

					Captive Plants and Open Access Consumers.	
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				Already introduced TOD since February 1997 by way of G.O of Government of Tamil Nadu and in subsequent tariff orders of the Commission.	
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		Wheeling charges has been determined in the Retail Tariff Order.	
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission/ CERC	1.4.2006	Renewable Purchase Obligation is fixed at 9%.	
	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				Solar Specific Renewable Obligation is fixed at 0.05%.	
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				Procurement of renewable energy through competitive bidding is not done since standard bidding documents are not available.	
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months		
10.	TRANSMISSION					
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006		
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year		

	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	Action will be taken up by the Commission.	
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		Distribution Licensee has been directed to provide ABT meters.	
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		Done	
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		Action will be taken up by the Commission.	
11.	DISTRIBUTION					
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	Scrutiny of financial and technical data is being carried out by the Commission in various tariff orders.	
(b)	i) Present AT & C losses (in %) ii) Previous year AT & C losses (in %) iii) Reduction in AT&C Losses over previous year (in %)	Clause 8.2.1(2) of NTP	Appropriate Commission		Commission fixed the T & D losses as follows: 2012-13 – 16.8% 2013-14 - 16.4% Reduction in T & D losses over previous year is by 0.4%.	
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories? ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		Yes Subsidy is released in advance as monthly/ quarterly /half-yearly as specified in the Subsidy Order issued by the Commission.	
(d)	<u>Reduction in cross subsidy</u> i) Whether tariff to all consumers is within + 20% of average cost of supply including agriculture consumer? ii) Whether tariff to all consumers is within + 20% of average cost of supply excluding agriculture consumer?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	Reduction is being effected in a phased manner a) Including Agriculture – 50% to 64% b) Excluding Agriculture – 34% to 64%	

(e)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		HT – IV Energy charge in paise per kWh is 350 and the same is paid by Government as Subsidy. LT – IV Till Installation of Energy Meter – Rs.2500/ p.a. per HP and the same is given by the Govt. as Subsidy. On Installation of Energy Meter – Energy Charges - 280 Paise/kWh and the same is given by the Govt. as Subsidy.	
(f)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt			
(g)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs			
(h)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	It is available.	
(i)	PPA with generating company	Clause 8.4(2) of NTP	State Govt			
(j)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		No incentive	
(k)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		Already issued.	

REFORMS MONITORING UNIT PROFORMA

Name of the State: Telangana.

Status: For the quarter July-September, 2014

Reforms Measures as per provisions of National Tariff Policy, 2006

Status of Northern Power Distribution Company of T.S. Limited vide Letter No. CGM/IPC&RAC/TSNPDCL/WGL/RAC/F.CEA/D.No.263/14 dated 06.11.2014

NATIONAL TARIFF POLICY - 2006						
SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
9.(a)	Procurement of Power through competitive bidding	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	2969 MW (TSNPDCL)	
	(i) Present power requirement (in MW) of the State				1556 MW (TSNPDCL)	
	(ii) Power requirement (in MW) of the State as on 06.01.2011				1413 MW (TSNPDCL)	
	iii) Increase in Demand (in MW) since 06.01.2011 (i – ii)				YES 1) Power procurement of 550 MW through Case-1 bidding was finalized and scheduled to receive from 16 th June 2013 to 15 th May 2015 was finalized and delivery of 400 MW power was already started from 14.08.2013. 2) Procurement of Short term power of 2000 MW for the period 30.05.2014 to 29.05.2015 was also done through competitive bidding only. 3) Procurement of Power through Case-I and Case-II bidding for medium and long term process respectively is under progress.	
	iv) Whether all this increase in demand since 06.01.2011 is being met through competitive bidding route? (Yes/ No)					
	v) If not, then what % of this increase in demand since 06.01.2011 is being met through competitive bidding route?					
	<u>Transmission</u>					
	(i) Total transmission capacity added (in MW) in the State after 6.1.2011				Not applicable	
	(ii) Transmission capacity added through competitive bidding route (in MW) in the State after 6.1.2011					
	iii) percentage of transmission capacity added (in MW) through competitive bidding out of total transmission capacity added in the State after 6.1.2011.					

(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission/ CERC		
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission		
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	
	i) Has SERC introduced MYT?				
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?				
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?				
	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				
(f)	Benefits under Clean Development Mechanism (CDM)	Clause 5.3(i) of NTP	State Power Department		CDM costs are not allowed as a pass through in tariff.
	i) Are CDM costs allowed as a pass through in tariff?				
	ii) No. of cases that have been granted for CDM benefits till dated.				There are no such cases which have been granted or CDM benefits.
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		Electricity Duty @ 6 paise per unit is being collected for all categories except Agriculture and Central Govt. services on sale of or consumption of electricity.
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	

	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);					
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.					
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission			
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission/ CERC	1.4.2006		
	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;					
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;					
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months		
10.	TRANSMISSION					
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006		
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year		

	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		
11.	DISTRIBUTION				
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	
(b)	i) Present AT & C losses (in %) ii) Previous year AT & C losses (in %) iii) Reduction in AT&C Losses over previous year (in %)	Clause 8.2.1(2) of NTP	Appropriate Commission		
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories? ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		
(d)	<u>Reduction in cross subsidy</u> i) Whether tariff to all consumers is within +_20% of average cost of supply including agriculture consumer? ii) Whether tariff to all consumers is within +_20% of average cost of supply excluding agriculture consumer?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	
(e)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		yeYes
(f)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		As per Tariff Order 2013-14 the category – wise Cost of Service and Tariff was submitted vide Lr.D.No.161/13, Dt.08.07.2013.
(g)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		1) TSNPDCL has engaged 28 Nos. Private Accounting Agencies (PAAs) for spot billing and revenue collection purpose under revenue collection based franchisee.

(h)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	
(i)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		As per National Tariff Policy TS Discoms have been entering PPAs with the developers through competitive bidding only. TSSPDCL on behalf of both TS Discoms is floating tenders for procurement of power on short term, medium term and long term basis through competitive bidding process only.
(j)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		
(k)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		

REFORMS MONITORING UNIT PROFORMA

Name of the State: **TRIPURA**

Status: For the quarter October-December 2011

Progress of Reform Measures as per the **National Tariff Policy 2006**

Status reported by Tripura Electricity Regulatory Commission vide **Letter No.F28/TERC/09/655-58 Dated 10.02.2012**

SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
NATIONAL TARIFF POLICY - 2006						
9.(a)	Procurement of Power through competitive bidding	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11		Procurement of power through competitive bidding has not been felt required considering availability of power from Palatana & Monarchak by 2012.
	(i) Generation projects through competitive bidding Case-1 and Case-2 till date					
	(ii) Transmission Projects through competitive bidding (Case-2) till date					
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission / CERC			To be implemented during Tariff determination against Petition for FY 2012-13.
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission			Nil
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission			As per Regulations i) Electricity Supply Code Regulations 2004 ii) Standard of Performance Regulations' 2004
(e)	Multi Year Tariff (MYT) i) Has SERC introduced MYT?	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06		No
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?					No
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?					No

	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				During 2010, FPPCA @ 1.40/kwh was ordered by SERC.
(f)	Benefits under Clean Development Mechanism (CDM) i) Are CDM costs allowed as a pass through in tariff? ii) No. of cases that have been granted for CDM benefits till dated.	Clause 5.3(i) of NTP	State Power Department		Not yet Nil
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		No duties, Taxes, Cess have yet been imposed by the State Government on sale of or consumption of electricity.
(h)	i) Introduction of availability based tariff by April, 2006. ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs); iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	i) Introduced ii) In Tripura there no Captive generation Plant yet been established. iii) Yes, ToD Tariff has been introduced for peak and off-peak hours.
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		There is provision in Regulations
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission / CERC	1.4.2006	i)&ii) As Regulation of TERC the following RPO fixed: a) 1 st year @ 1% b) 2 nd year @ 1% c) 2 nd & 3 rd year @ 2% with 1% of Solar Power Fixation of 0.25% Solar by 12-13 shall be taken up

	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				iii) Nil
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months	iv) Nil
10.	TRANSMISSION				
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006	In Tripura, there is Sole Utility namely TSECL who is responsible for Generation, Transmission and Distribution of Electricity in the State. Development of Tariff framework considering the distance, direction and quantum of Power flow not yet framed by TERC. Recently, POC system introduced in India and perhaps the same is contained in the above points and TERC shall also introduce in future.
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year	
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		Nil
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		Not introduced

11.	DISTRIBUTION				
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	AT&C loss reduction Programme already taken by TSECL by deploying vigilance squad and by curbing hooking and by disconnecting unauthorized consumers.
(b)	Levels of consumer tariff	Clause 8.2.1(2) of NTP	Appropriate Commission		24 hrs supply
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		Yes
(d)	ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?				Yes
(e)	Cost of supply Whether tariff to all consumers is within +_20% of average cost of supply?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	No. However, efforts shall be made to implement cross-subsidy within $\pm 20\%$ during 2012-13.
(f)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		Tariff for Agriculture use is more subsidized.
(g)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		Partly reflects in Tariff structure as fixed charge as approved by the Commission.
(h)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		Outsourcing activities matching revenue Franchisees are carried out annually by different electrical sub-division by engagement of Agency through call of tender. The agencies are paid based on agreed and contracted rate against meter reading and bill collection.
(i)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	Shall be done
(j)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		Obliged
(k)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		Not yet done
(l)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		Does not arise

REFORMS MONITORING UNIT PROFORMA

Name of the State: UTTAR PRADESH

Status: For the quarter October-December 2011

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by Uttar Pradesh Power Corporation Limited vide Letter No.319/RMU/CEA dated 3rd March, 2012

SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
NATIONAL TARIFF POLICY - 2006						
9.(a)	Procurement of Power through competitive bidding	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	About 2700 MW through Case-I Projects already awarded under Case-2. 3 X 660 MW Prayagraj TPT 2 X 660 MW Sangam TPT NPCL: NPCL has undertaken Case-1 bidding for 200 MW power on long term basis (for 25 years) with scheduled delivdry date of April 2014. Presently, the bidding process is in progress. (Letter dated 5 th September 2011)	
	(i) Generation projects through competitive bidding Case-1 and Case-2 till date					
	(ii) Transmission Projects through competitive bidding (Case-2) till date					
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission / CERC			Distribution ROE 16% Transmission ROE 14%
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission			Weighted average rate of interest on actual loan
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission			Done
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06		Distribution: No Generation: MYT introduced benchmarking on the basis of historical costs.
	i) Has SERC introduced MYT?					
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?					In progress
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?					No

	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				No
(f)	Benefits under Clean Development Mechanism (CDM) i) Are CDM costs allowed as a pass through in tariff?	Clause 5.3(i) of NTP	State Power Department		Not applicable
	ii) No. of cases that have been granted for CDM benefits till dated.				2 (Two)
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		Uniform
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	i&ii) The Commission has enforced intra-State ABT in phases vide order(s) dated 24/25.09.07, 28.05.08 and 05.03.09. Further "Procedures for Scheduling, Dispatch, Energy Accounting, UI Accounting and Settlement of Accounts for Short Term Open Access & Long Term Open Access" has been developed to facilitate the settlement and accounting system of open access transactions.
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				iii) SLDC is already functioning and carrying out energy accounting from TPS under ABT. All the entities (except Obra and Harduaganj P/s) have come under the purview of ABT since 01.07.09 with UI implications.
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		LTOA – 0.297 (connected above 11 kV voltage level) 0.475 (connected at 11 kV voltage level) STOA – 0.07 (connected above 11 kV voltage level) 0.11 (connected at 11 kV voltage level)
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission / CERC	1.4.2006	Fixed 7.5% through CNCE regulations, 2005

	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				Fixed 0.25% for 2010-11 under Green Energy regulation, 2010
	iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				Not yet
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months	N.A.
10.	TRANSMISSION				
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006	Not yet introduced
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year	Not yet introduced
	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	Not yet introduced
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		Not yet introduced
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		No
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		No

11.	DISTRIBUTION				
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	Yes
(b)	Levels of consumer tariff	Clause 8.2.1(2) of NTP	Appropriate Commission		Yes
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		Tariff for subsidized categories inclusive of subsidy
(d)	ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?				Monthly
(e)	Cost of supply Whether tariff to all consumers is within +_20% of average cost of supply?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	No
(f)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		Yes
(g)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		No
(h)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		Number of collection based oprational Rural Franchisees DisCom wise: PVVNL Meerut: 53 PVVNL Varanasi: 376 MVVNL, Lucknow: 155 DVVNL, Agra: 52 Total: 636 NPCL: The company on pilot basis, engaged Revenue Based Franchisee in one of the villages namely Alamkhani for reduction of its AT&C losses. Upon satisfactory implementation, it is proposed to extend it to other villages.
(i)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	Yes
(j)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		Yes
(k)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		Yes
(l)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		No (Remarks: As per retail tariff if OA consumer is also discom consumer otherwise additional 25% of UI charges (1.25) if only OA consumer)

REFORMS MONITORING UNIT PROFORMA

Name of the State: UTTARAKHAND

Status: For the quarter July-September 2011

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by Uttarakhand Power Corporation Limited vide Letter No. 3882 / UPCL/RM/1-4 dated 5th November, 2011

SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
NATIONAL TARIFF POLICY - 2006						
9.(a)	Procurement of Power through competitive bidding	Clause 5.1 & 7.1 of NTP	DISCOMS/ SERCs	From 6.01.11		No medium term and long term power purchases are being done except (i) allocation by Gol in respect of Central Generating Stations (ii) State generation and (iii) purchases from IIPs towards renewable purchase obligation.
	(i) Generation projects through competitive bidding Case-1 and Case-2 till date					
	(ii) Transmission Projects through competitive bidding (Case-2) till date					
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission / CERC			As per regulations issued by State Commission, 14% return is admissible on the equity invested in fixed assets. In case equity is more than 30% of total capital, return on equity is admissible only on 30% of equity and the balance amount of equity is considered as normative loan.
(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission			Interest on loans is being allowed on Actual basis. (SERC)
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission			State Commission has fixed the distribution loss reduction targets of UPCL.
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06		State Commission has issued draft regulations on MYT and invited comments of the Stakeholders. Thus, the State Commission is in process to finalize the MYT regulations.
	i) Has SERC introduced MYT?					
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?					
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?					

	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.																		
(f)	Benefits under Clean Development Mechanism (CDM) i) Are CDM costs allowed as a pass through in tariff?	Clause 5.3(i) of NTP	State Power Department		--														
	ii) No. of cases that have been granted for CDM benefits till dated.																		
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		<div>1. The rates of electricity duty imposed by State Government are as follows:<table><tr><th>Consumption & Distribution</th><th>Rate of Electricity Duty</th></tr><tr><td>Domestic/non-domestic/other</td><td>15 Paise/Unit</td></tr><tr><td>Small & Medium Industry</td><td>20 Paise/Unit</td></tr><tr><td>Large & Heavy Industry</td><td>25 Paise/Unit</td></tr><tr><td>Town/local undertakings/Pay Jal Corporations/Street Light</td><td>09 Paise/Unit</td></tr><tr><td>Unmetered Supply</td><td>20% of fixed charges</td></tr><tr><td>Consumption from the own captive generating plant</td><td>02 Paise/Unitr</td></tr></table></div> <div>2. Cess @ 30 Paise/Unit and royalty @ 10 Paise/Unit is payable on the salable energy generated by the existing Hydro Power Plants of GoU under UJVN Limited, which are under commercial operation for more than 10 years and whose cost of electricity generation is not more than 80 Paise/Unit.</div>	Consumption & Distribution	Rate of Electricity Duty	Domestic/non-domestic/other	15 Paise/Unit	Small & Medium Industry	20 Paise/Unit	Large & Heavy Industry	25 Paise/Unit	Town/local undertakings/Pay Jal Corporations/Street Light	09 Paise/Unit	Unmetered Supply	20% of fixed charges	Consumption from the own captive generating plant	02 Paise/Unitr
Consumption & Distribution	Rate of Electricity Duty																		
Domestic/non-domestic/other	15 Paise/Unit																		
Small & Medium Industry	20 Paise/Unit																		
Large & Heavy Industry	25 Paise/Unit																		
Town/local undertakings/Pay Jal Corporations/Street Light	09 Paise/Unit																		
Unmetered Supply	20% of fixed charges																		
Consumption from the own captive generating plant	02 Paise/Unitr																		
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	(i) & (ii) Availability based tariff has not been introduced in the State so far.														
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);																		

	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				Time of Day tariff was introduced in the State in the month of January, 2004. It is continued till date.										
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		State Commission has determined the wheeling charges for power drawn by the State consumers through open access and using the Distribution system of distribution licensee.										
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission / CERC	1.4.2006	(i) & (ii) The State Commission has fixed the renewable purchase obligation as follows:										
	<table><tr><th>Year</th><th colspan="2">Renewable purchase obligation</th></tr><tr><td>2010-11</td><td>4.00%</td><td>0.000%</td></tr><tr><td>2011-12</td><td>4.50%</td><td>0.025%</td></tr><tr><td>2012-13</td><td>5.00%</td><td>0.050%</td></tr></table>				Year	Renewable purchase obligation		2010-11	4.00%	0.000%	2011-12	4.50%	0.025%	2012-13	5.00%
	Year			Renewable purchase obligation											
	2010-11			4.00%	0.000%										
2011-12	4.50%	0.025%													
2012-13	5.00%	0.050%													
ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;															
iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;				No medium term and long term power purchases are being done except (i) allocation by Gol in respect of Central Generating Stations (ii) State generation and (iii) purchases from IIPs towards renewable purchase obligation.											
	iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.			Within three months											
10.	TRANSMISSION														
(a)	i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA	Clause 7.1(2) of NTP	Central Commission	1.4.2006											
	ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.	Clause 7.1(5) of NTP	Central Commission	Within one year											

	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	Matter yet to be taken up by the Commission. (SERC)																
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		Implementation of SCADA system at SLDC is currently under progress which is pre-requisite for implementation of ABT mechanism at intra-state level. (SERC)																
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		Matter yet to be taken up by the Commission. (SERC)																
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		The Commission has specified Auxiliary Energy Consumption and Target Availability for recovery of full transmission charges in the Regulations. The licensee has to bear charges for not maintaining the targets and incentives are also provided for achieving more than the targets.																
11.	DISTRIBUTION																				
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	Presently, the Commission's staff is monitoring the energy audit carried out by the licensee by conducting inspections. (SERC)																
(b)	Levels of consumer tariff	Clause 8.2.1(2) of NTP	Appropriate Commission		It has been the Endeavour of the Commission to design consumer tariffs keeping in mind the average cost of supply and also the cross subsidy requirement envisaged in the NTP. (SERC)																
(c)	Grant of subsidy	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		State Government has not granted subsidy u/s 65 of the Electricity Act, 2003 to any category of consumers so far. Accordingly, State Commission has also not specified subsidy tariff for any category of consumers.																
(d)	i) Does SERC specify subsidy tariff for relevant categories? ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?																				
(e)	Cost of supply Whether tariff to all consumers is within +_20% of average cost of supply?	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	Cross subsidy is being reduced regularly in the State. State Commission while determining the tariff of UPCL for the FY 2011-12 maintained the level of cross-subsidy for different category of electricity consumers as follows: <table><tr><th>Category</th><th>Cross Subsidy (%)</th></tr><tr><td>Domestic</td><td>-28.57%</td></tr><tr><td>Non-Domestic</td><td>19.23%</td></tr><tr><td>Public Lamps</td><td>-0.90%</td></tr><tr><td>Private Tube-wells</td><td>-69.88%</td></tr><tr><td>Government Irrigation System</td><td>-0.15%</td></tr><tr><td>Public Water Works</td><td>-0.82%</td></tr><tr><td>LT Industry</td><td>12.46%</td></tr></table>	Category	Cross Subsidy (%)	Domestic	-28.57%	Non-Domestic	19.23%	Public Lamps	-0.90%	Private Tube-wells	-69.88%	Government Irrigation System	-0.15%	Public Water Works	-0.82%	LT Industry	12.46%
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					HT Industry	11.53%
					Mixed Loan	-7.42%
					Railway Traction	19.89%
(f)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		The level of cross-subsidy of agriculture consumers is highest in the State (69.88%).	
(g)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt			
(h)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs			
(i)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	(i) There is two part tariff for each and every consumer category in the State. (ii) Time of day tariff was introduced in the State in the month of January, 2004. It is continued till date.	
(j)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		There is only one distribution company in Uttarakhand so far i.e. UPCL.	
(k)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		Tariff for unmetered supply has been kept on higher side to encourage metered supply of electricity.	
(l)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		This has been provided in the Regulations by State Commission.	

REFORMS MONITORING UNIT PROFORMA

Name of the State: WEST BENGAL

Status: For FY 2013-14

Progress of Reform Measures as per the National Tariff Policy 2006

Status reported by State Power Department vide Letter No.352-PO/O/III/3R-02/11 dated 19.10.2012 and West Bengal Electricity Regulatory Commission vide letter No.WBERC/A-4/NEP-TP/Report/2/0420 dated 21st July, 2014

SN	Name of the Item	Provisions	Action by	Target	Progress	Remarks
NATIONAL TARIFF POLICY - 2006						
9.(a)	<p>Procurement of Power through competitive bidding</p> <p>(i) Present power requirement (in MW) of the State</p> <p>(ii) Power requirement (in MW) of the State as on 06.01.2011</p> <p>iii) Increase in Demand (in MW) since 06.01.2011 (i – ii)</p> <p>iv) Whether all this increase in demand since 06.01.2011 is being met through competitive bidding route? (Yes/ No)</p> <p>v) If not, then what % of this increase in demand since 06.01.2011 is being met through competitive bidding route?</p> <p><u>Transmission</u></p> <p>(i) Total transmission capacity added (in MW) in the State after 6.1.2011</p> <p>(ii) Transmission capacity added through competitive bidding route (in MW) in the State after 6.1.2011</p> <p>iii) percentage of transmission capacity added (in MW) through competitive bidding out of total transmission capacity added in the State after 6.1.2011.</p>	Clause 5.1 & 7.1 of NTP	DISCOMs/ SERCs	From 6.01.11	No power through competitive bidding route has been so far procured.	
(b)	Return on Investment (%)	Clause 5.3(a) of NTP	Appropriate Commission / CERC		Generation & Transmission: Same as per Tariff Regulations of CERC Distribution: 1% higher than the ROE allowed for generation.	

(c)	Cost of Debt	Clause 5.3.(d) of NTP	Appropriate Commission		Swapping of existing loan as long as it results in net benefit to the consumers/ beneficiaries has been allowed.
(d)	Operating Norms for distribution network	Clause 5.3(f) of NTP	Appropriate Commission		Specified (as per enclosure)
(e)	Multi Year Tariff (MYT)	Clause 5.3(h) of NTP & 5.4.4 of NEP	Appropriate Commission	1.04.06	Yes
	i) Has SERC introduced MYT?				
	ii) Whether any study conducted for benchmarking performance to establish desired performance standards?				M/S TERI was engaged for preparation of O&M Norms of Power Stations and T&D Network in West Bengal to establish desired performance standards. Based on the study conducted by M/S TERI along with in-house officers and in consultation with the published book of Perspective planning of power in West Bengal, set of operating norms in the Tariff Regulations was framed. Presently O&M Norms of power stations, transmission licensees and distribution loss trajectory for the distribution licensees have been set for the year 2014-15 onwards.
	iii) Utility-wise studies to assess capital expenditure necessary to meet the minimum service standards?				No such study has done yet.
	iv) Recovery of uncontrollable costs (including but not limited to fuel costs, costs on account of inflation, taxes & cess, variations in power purchase unit costs including on account of hydro-thermal mix in case of adverse natural events) speedily to ensure that future consumers are not burdened with past costs.				The Commission in its regulation 2.8.7.3 of the West Bengal Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2011 has introduced MVCA and MFCA related to fuel and power purchase for timely recovery of the same to ensure that future consumers are not burdened with past costs to the extent of variable cost only.
(f)	Benefits under Clean Development Mechanism (CDM) i) Are CDM costs allowed as a pass through in tariff?	Clause 5.3(i) of NTP	State Power Department		i) Yes, as per Tariff Regulation of West Bengal Electricity Regulatory Commission : Any one-time proceeds accruing to the licensee or generating company from carbon trading or green-house emissions reduction programme or environmental pollution reduction programme and which is being invested in creation of new asset in electricity business of the said company or licensee, will be treated as equity invested by the generating company or the licensee itself and ROE as per this regulation shall be applicable to the licensee or generating company, but the said investment amount will be deducted from project cost during computation of depreciation for tariff determination. Furthermore: Any income by licensee or generating company from carbon trading or greenhouse emissions reduction programme or environmental pollution reduction programme, reduced by expenses

					relating to such activity, shall be used partially for the benefit of the consumer and licensee purchasing power from them by utilizing 30% of such income to reduce the ARR. However, in case of loss from such trading or programme, such loss shall not be allowed to be adjusted against aggregate revenue requirement.
	ii) No. of cases that have been granted for CDM benefits till dated.				Budge Budge Thermal Power Plant of CESC Ltd. has been granted CDM benefits for the year 2007-08 and Titagarh Thermal Power Plant of CESC Ltd. has been granted CDM benefits for the year 2008-09.
(g)	Whether the duties, Taxes, Cess imposed by the State Government (for Grid connected consumers) on sale of or consumption of electricity are uniform and not selectively imposed and kept within reasonable limits?	Clause 5.4 of NTP	State Govt		
(h)	i) Introduction of availability based tariff by April, 2006.	Clause 6.2(1) of NTP	Appropriate Commission	i) April, 2006	ABT has been introduced for intra-state mode since 01.01.2008
	ii) Extension of this arrangement to generating stations (including grid connected captive plant of capacities as determined by SERCs);				<u>Power Stations under ABT</u> All generating stations of WBPDCCL. All other forthcoming generating stations above 50 MW of any generating company synchronized with the State Grid subsequently.
	iii) Introduction of differential rates of fixed charges for peak and off-peak hours for better management of load.				No differential rate for fixed charge has yet been set by this Commission though ToD tariff has been introduced already for better load management.
(i)	Determination of wheeling charges	Clause 6.3 of NTP	Appropriate Commission		WBERC first determined the wheeling Charges in 2006-07
					WBERC determines wheeling charges and notifies the same every year. Latest wheeling charges have been determined for the year 2013-14.
(j)	i) Fixation of percentage for purchase of energy through Non-Conventional/Renewable energy sources including co-generation by 1 st April, 2006;	Clause 6.4(1) of NTP & Section 86(1)(e) of EA	Appropriate Commission / CERC	1.4.2006	4.5% for 2014-15, 5.0% for 2015-16 5.5% for 2016-17 and 6.0 % for 2017-18
	ii) Fixation of solar specific renewable purchase obligation of 0.25% by 2012-13;				Solar specific RPO has been specified by this Commission in its recent West Bengal Electricity Regulatory Commission (Cogeneration and Generation of Electricity from renewable Sources of Energy) Regulations, 2013.

	<p>iii) Procurement of power through competitive bidding process under Section 63 of the Act within suppliers offering energy from same type of non-conventional sources as far as possible;</p>				<p>In terms of West Bengal State Electricity Regulatory Commission (Cogeneration and Generation of Electricity from Renewable Sources of Energy) Regulations, 2013 (Renewable Energy Regulation), the procurement of solar power shall be through competitive bidding only. For procuring power other than solar, the priority for purchase shall be on the basis of the comparative price of energy and availability from co-generation/ renewable sources in a transparent manner through negotiation within the capped price as specified in the regulation until Ultimate Target is achieved. Thereafter, the licensee shall procure power through competitive bidding within the capped price specified in the relevant regulation except hydro power stations if tariff of such power stations are determined by regulatory mechanism. For further purchase of non-conventional power after fulfillment of ultimate target as per renewable energy regulation of the commission, open competitive bidding should be done every year through wide publicity including advertisements in the newspapers subject to the condition that such price will be within the capping price of these regulations. It is further stated that for such purchase of non-conventional power beyond ultimate target where competitive bidding route is used according to guidelines issued by the Central Government in pursuance of section 63 of the Act, capping price as per renewable regulation of the Commission would not be applicable and the price will be as per competitive bidding guidelines.</p>
	<p>iv) Laying of guidelines by CERC for pricing non-firm power specially from non-conventional sources to be followed in cases where procurement is not through competitive bidding.</p>			Within three months	<p>The Commission has determined the capping prices for purchase of energy obtained from various renewable energy sources and also for energy from co-generation in its renewable energy regulation and the priority for purchase shall be on the basis of the comparative price of energy and availability from co-generation/ renewable sources in a transparent manner through negotiation within the capped price as specified in the regulation until ultimate target is achieved.</p>
10.	TRANSMISSION				
(a)	<p>i) Development of tariff framework in transmission sensitive to distance, direction and quantum of power flow by CERC after taking into consideration advice of CEA</p>	Clause 7.1(2) of NTP	Central Commission	1.4.2006	
	<p>ii) Fixation of operating standards and performance indicators for transmission lines at different voltage level by Central Commission after appropriate baseline studies.</p>	Clause 7.1(5) of NTP	Central Commission	Within one year	

	iii) Intra-state transmission framework on the lines of Inter-state framework in transmission based on factors of voltage, distance, direction and quantum of flow.	Clause 7.1(7) of NTP	Appropriate Commission	Within two years after implementation of CERC regulation	Not yet done		
	iv) Compatible metering with ABT requirements and also for facilitating implementation of time of day tariffs.	Clause 7.1(8) of NTP	Appropriate Commission		Implemented.	WBSETCL ABT & TOD status: Meters for ABT only Generation to Transmission: 40 nos. Meters for ABT and TOD Generation to Transmission: 76 nos. Transmission to Distribution: 342 nos. Tie lines between utilities: 40 nos. Meters for TOD only: 09 nos.	
(b)	Determination of technical loss benchmarks in transmission after considering advice of CEA	Clause 7.2 (1) of NTP	Appropriate Commission		Though no such study has been done yet, but this Commission has framed a trajectory of gradually reducing transmission loss for transmission licensees under the jurisdiction of WBERC.		
(c)	Key performance indicators (KPI) for transmission	Clause 7.3 of NTP	Appropriate Commission		Yes, Please see Schedule-5 for Transmission Loss and Transmission Availability trajectory of transmission system.		
11.	DISTRIBUTION						
(a)	Scrutiny of financial & technical data	Clause 8.2.1(2) of NTP	Appropriate Commission	March, 2007	Finance part is under independent scrutiny, since those are audited data. For technical data the Commission prudently checks the same and related issues as submitted by the licensees time to time.		
(b)	i) Present AT & C losses (in %) ii) Previous year AT & C losses (in %) iii) Reduction in AT&C Losses over previous year (in %)	Clause 8.2.1(2) of NTP	Appropriate Commission			2013-14	2012-13
					WBSEDCL	30.51%	31.56%
					CESCLTD	12.20%	12.30%
					DPL	7.20%	7.81%
					DPSCL	4.517%	3.84%
					DVC (WB & Jharkhand	15.63%	17.15%
(c)	Grant of subsidy i) Does SERC specify subsidy tariff for relevant categories? ii) Is the State Govt. releasing subsidy in advance? Periodicity at which subsidy released?	Clause 8.2.1(3) of NTP & Section 65 of EA	Appropriate Commission		The Commission has not specified subsidy tariff so far for life line consumers. Yes, the State Govt. has released subsidy every month to some categories of consumers of WBSEDCL by way of adjustment of the Electricity Duty collected during the previous month by the licensee against the subsidy accrued for that month.		
(d)	Reduction in cross subsidy i) Whether tariff to all consumers is within +_20% of average cost of supply including agriculture consumer? ii) Whether tariff to all consumers is within +_20% of average cost of supply excluding agriculture	Clause 8.3(2) of NTP	Appropriate Commission	End of 2010-11	The Commission is continuing to its efforts to bring down Cross Subsidy through gradual reduction to bring the variation within the range of ± 20% except in agriculture and lifeline domestic (BPL) category consumers.		

	consumer?				
(e)	Tariff for Agricultural use	Clause 8.3(3) of NTP	Appropriate Commission		Different tariff of Agricultural consumers based on the conditions of ground water levels in different parts of the State was applicable for unmetered consumers. Now, all unmetered agricultural consumers are being converted to metered consumers with TOD option in phased manner and the slab/time wise tariff has been set by the Commission for this class.
(f)	Tariffs reflecting cost of service	Clause 8.3(4) of NTP	State Govt		
(g)	Commercial arrangement with franchisees in rural areas	Clause 8.3(5) of NTP	DISCOMs		
(h)	Introduction of two part tariff and time differentiated tariff for large consumers (1 MW and above consumer)	Clause 8.4(1) of NTP	Appropriate Commission	Within 1 year	WBERC has already introduced two part TOD tariff for HV & EHV consumers and made it compulsory for new connection. For L&MV consumer fixed charge has already been introduced.
(i)	PPA with generating company	Clause 8.4(2) of NTP	State Govt		
(j)	Incentives to encourage metering and billing based on metered tariff	Clause 8.4(3) of NTP	Appropriate Commission		Not allowed by this Commission.
(k)	Tariff for standby arrangements	Clause 8.5(6) of NTP	Appropriate Commission		Tariff for standby arrangements would be determined as per clause (c) of regulation 12 of West Bengal Electricity Regulatory Commission (Open Access) Regulations, 2007, as amended.