

Licencee GRIDCO..... OERC TRT-9A

TARIFF COMPUTATION FOR CENTRAL SECTOR THERMAL STATION

Name of Plant:

Talcher Thermal Power Station

Descriptions	UNIT	CERC approval for Curent year (2008-09)	CERC approval for ensuing year (FY 2009-10)	Licensee proposal for ensuing year (FY 2010-11)
Capacity	MW	460	460	460
Auxilliary Consumption	%	10.50%	10.50%	10.50%
Normative PLF	%	80.00%	82.00%	82.00%
Generation Normative	MU/yr	3223.68	3304.27	3304.27
Generation less Aux. (Normative)	MU/yr	2885.19	2957.32	2957.32
Approved PLF (OERC) / Proposed PLF%	%	87.68%	85.54%	82.00%
Generation Approved	MU/yr	3533.15	3447.01	3304.27
Generation less aux. (approved) actual	MU/yr	3162.17	3085.07	2957.32
GCV of Coal	Kcal/Kg	3710	3710	3710
GCV of Oil	Kcal/Lt	9445	9445	9445
Specific Coal Consumption	kg/kWh	0.80	0.80	0.80
Specific Oil Consumption	ml/kWh	2.00	2.00	2.00
Coal Price	Rs/Mt	473.73	473.73	473.73
Oil Price	Rs/Kl	17341.00	17341.00	17341.00
Station Heat Rate	Kcal/kwh	2975	2975	2975
Approved capital cost	Rs.Crs	696.01	696.01	696.01
Approved Equity	Rs.Crs	348.01	348.01	348.01
Gross Loan	Rs.Crs	348.01	348.01	348.01
Net Loan	Rs.Crs	42.68	42.68	42.68
Rate of Interest	%	8.82	8.82	8.82
Rate of Return (wef 01.04.2009)	%	14%	14%	23.48%
Current Capital Costs	Rs. lakhs	696.01	696.01	696.01
Base year for current capital costs	Year	2004-05	2004-05	2004-05
O&M Escalation factor	%	3.8	3.8	3.8
Rate of O&M Expenses	Rs. lakhs	10098.00	10098.00	10098.00
Rate of Depreciation	%	4.50%	4.50%	4.50%
Rate of Interest on Working Capital	%	10.25%	10.25%	10.25%
Tax Rate	%			
Variable Charges		46.05	46.22	46.05
Coal	p/kWh	42.17	42.17	42.17
Oil	p/kWh	3.880	3.880	3.880
Total Variable Charges (per unit)	p/kWh	46.05	46.22	46.05
TOTAL VARIABLE CHARGES	Rs. lakhs	14561.80	14259.21	13618.47
Fixed Charges				
O&M Expenses	Rs. lakhs	10098	10098	10098
Depreciation	Rs. lakhs	2236	2236	3487
Interest on loan	Rs. lakhs	278	278	228
Return on Equity	Rs. lakhs	4872	4872	5204
Interest on Working Capital	Rs. lakhs	908	908	920
Rennovation & Modernisation Expenses	Rs. lakhs	0	1390	1390
Impact of FERV		0	0	0
TOTAL FIXED CHARGES (APPROVED/NORMATIVE)	Rs. lakhs	18392	19782	19840
FIXED CHARGES (APPROVED/NORMATIVE)	p/kWh	58.16	64.12	67.09
TOTAL TARIFF (APPROVED/NORMATIVE)	p/kWh	104.21	110.34	113.14

Cumulative deemed generation	MU per yr	0.00	0.00	0.00
Station generation at Normative level	MU per yr	2885.19	2957.32	2957.32
Total Plant availability	%	87.68%	85.54%	82.00%
Normative PLF	%	80.00%	82.00%	82.00%
Incentive PLF	%	80.00%	82.00%	82.00%
Dis-incentive PLF	%	80.00%	82.00%	82.00%
Units for Incentive	MU	276.98	127.75	0.00
Units for Dis-incentive	MU	0	0	0
Incentive rate per % rise over normative or approved PLF	p/kWh	25.00	25.00	25.00
Dis-incentive rate	As per PPA			
Incentive (OERC Approval)	Rs. lakhs	692.446	319.374	0.000
Dis-incentive	Rs. lakhs	0	0	0
Total Fixed cost with Incentive or dis-incentive	Rs. lakhs	19084	20101	19840
Fixed Charges (with incentive/ dis-incentive)	p/kWh	60.35	65.16	67.09
Total tariff (with incentive/ dis-incentive)	p/kWh	118.51	129.28	134.18
Additional cost due to FPA	Rs. lakhs	7269.83	9995.64	14251.34
FPA Rate (OERC Approval)	p/kWh	22.99	32.40	48.19
Year End Charges (OERC Approval)				23.42
Incentive/ (disincentive)	Rs. lakhs	692.45	319.37	0.00
Income tax (OERC Approval)	Rs. lakhs	4277	1892	1892
Impact of Income Tax	p/kWh	13.53	6.13	6.40
Water cess & water tax	Rs. lakhs	17.0000	12.3600	12.3600
Impact of water cess & water tax	p/kWh	0.0538	0.0401	0.0418
ED (OERC Approval)	Rs. lakhs	742.00	724.00	724.00
ED (OERC Approval)	p/kWh	2.346	2.347	2.448
Other Charges if any	Rs. lakhs	0	0	600
Total Year End Charges	Rs. lakhs	5728.45	2947.73	3228.36
Total Year End Charges	p/kWh	18.12	9.55	10.92
Total cost inclusive of FC+VC+ FPA+ IT +W.Cess & Tax & Others	Rs.Crs	663.75	663.75	692.50
Total charges inclusive of FC+VC+ FPA+ IT +W.Cess & Tax & Others	p/kWh	145.32	152.30	195.66
PGCIL Tr Charge	p/kWh			
Tr.Loss		0.00%	0.00%	0.00%
TOTAL RATE INCLUDING LOSS +TRANSMISSION				
Rate including Central loss				
Gridco's Share	%	100.00%	100.00%	100.00%
Gridco's Share of Energy excl. loss	MU	3162.172	3085.073	2957.323
Gridco's Share of the Fixed Costs	Rs. lakhs	18,392.00	19,782.00	19,840.00
Per unit Variable Charges	p/kWh	46.05	46.22	46.05
Fixed Charges (Approved/ Normative)	p/kWh	58.16	64.12	67.09
FPA Rate	p/kWh	22.99	32.40	48.19
Total Year End Charges	p/kWh	18.12	9.55	23.42
PGCIL Transmission charges	p/kWh	-	-	22.07
Total rate incl. loss & transmission charges	p/kWh	145.32	152.30	184.75
Fixed Cost Based on Normative	p/kWh	58.16	64.12	67.09
VARIABLE COST	p/kWh	46.05	46.22	46.05