

*Summary of ARR & Fees and
Charges for SLDC Filings*

Submitted by

SLDC

For

FY 2018-19

**OPTCL'S PROPOSAL FOR ARR & LEVY OF ANNUAL FEES & CHARGES FOR
SLDC FUNCTIONS FOR FY 2018-19**

1. The application for approval of Annual Revenue Requirement and Fees & Charges for SLDC for FY 2018-19 has been prepared in line with the provision mentioned in the CERC (Fees & Charges of RLDC & other related matters) Regulations, 2009, OERC (Fees & Charges of SLDC & other related matters) Regulations, 2010 and considering the following recommendation of the MOP Committee Report.
 - (a) SLDC is to be equipped suitably to play the pivotal role of an Independent System Operator (ISO).
 - (b) Power system operation is the core activity of LDCs. Efficient load dispatching also requires a deep understanding of Transmission, Generation and Distribution technology. In view of above, the executives shall be from electrical engineering discipline. Efforts need be made to supplement them with interdisciplinary learning and development.
2. As per the recommendation in the report of the task force committee on “Capital Expenditure and Issues related to Emoluments for Personnel in Load Despatch Centres”, the assets pertaining to the Control Centre (SLDC) has to be handed over to the State Load Despatch Centres. Provision for recovery of the outstanding amount for investments made by the POWERGRID on ULDC project shall be kept in the ARR of SLDC. As per the Taskforce report, SLDC is liable to pay the recovery cost of control centre equipments only. Since the assets presently being used at SLDC is yet to be transferred, the ULDC asset recovery charges are not considered in the ARR. However, the depreciation cost has been considered in the ARR for FY 2018-19.
3. The man power structure for SLDC operation proposed in the ARR of FY 2018-19 is in line with approved structure by the Govt. of Odisha and the abstract is indicated in **Annexure-I**.
4. Commission has approved the CAPEX expenses amounting Rs. 717.99 lakh proposed by SLDC for FY 2017-18 to FY 2018-19 vide their order dated 23.03.2017. Out of the total Rs. 717.99 lakh a sum of Rs. 402.99 lakh would be spent during FY 2017-18 and Rs. 315 lakh during FY 2018-19.
5. Commission has approved, vide letter dated 27.10.2017, Rs. 3,09,10,579 towards expansion of existing VPS, up-gradation of existing VPS, procurement of RVDU for Jaynagar sub-station to monitor Machhakund generation and additional amount required for procurement of furniture and fixture and computer & peripherals for SLDC data center.

Item wise Annual Revenue Requirement for SLDC operation as proposed by OPTCL for FY 2018-19

6. As per the OERC (Fees and Charges of State Load Despatch Centre and other related matters) Regulations, 2010 the annual charges consist of the following components:
- a. Return on Equity
 - b. Interest on Loan Capital
 - c. Depreciation
 - d. Operation & Maintenance Expenses Excluding Human Resource expenses
 - e. Human Resource Expenses
 - f. Interest on Working Capital

a. Return on Equity:

Since no equity has been invested by SLDC, item (a) is not considered in the ARR.

b. Interest on Loan capital:

Since there is no outstanding loan on SLDC item (b) is not considered in the ARR.

c. Depreciation:

Depreciation for the assets in the Unified Load Despatch Center and offices in SLDC has been computed as Rs. **58.528** lacs as per CERC Regulation. The major amount of depreciation charges is for recovering the depreciation cost for computers & peripherals for SLDC data centre procured during FY 2017-18 amounting Rs. **36.686** lacs, Video Projection Screen (VPS) amounting Rs. **7.750** lacs and the depreciation cost for IT equipments at EASSC amounting Rs. **6.547** lacs. Depreciation of new assets such as AC, furniture, DG set RVDU at Jaynagar has also been considered. Total depreciation amount is provided in table –1 below.

Table – 1: Statement of Depreciation

(in Rs. Lacs)

Financial Year	2016-17	2017-18	2018-19
Recovery of capital cost (amount to be recovered during the year)	0.000	0.000	0.000
Depreciation on existing assets	22.529	23.850	58.528
Total	22.529	23.850	58.528

d. Operation and Maintenance Expenses:

Operation and maintenance expenses excluding human resources expenses for FY 2018-19 has been computed as **Rs.203.540 lacs** considering the R&M expenditure proposed to be incurred for Facility Management Services (FMS), Website charges, AMC charges for SCADA/EMS equipments, IT equipments and Electrical maintenance of office building and colony quarters etc and A&G expenses.

The O & M expenses have been projected considering actual expenditure to be incurred during FY 2017-18.

Table – 2: Statement of O&M Expenses Excluding Human Resource Expenses

(in Rs. Lacs)

ITEMS	2016-17 (Actual)	2017-18 (Approved)	2017-18 (Actual up to Sept.-16)	2018-19 (Proposed)
Repair and maintenance expenses	55.478	54.480	4.759	51.700
Administrative and general expenses etc.	109.558	106.290	54.110	151.840
Total	165.036	160.770	58.869	203.540

c. Human Resources Expenses:

Human resources expenses have been computed as **Rs. 1106.799 lacs**. Total number of proposed employees at SLDC is 67 nos. considering the expected induction of additional staff during FY 2018-19. The present staff strength of SLDC is 48 as on 31.10.2017 including 6 nos. of telecommunication personnel working at SLDC control centre. In addition to the above, 6 nos. of contractual/outsourcing staff are engaged at SLDC as on date. The salary of the employees has been computed by considering State Govt. approved 67 nos. of employees and implementation of 7th Pay Commission Report. Payment of arrear amounting Rs. **186.473** lacs due to implementation of 7th Pay Commission Report has been considered. The details of calculation of human resources expenses can be seen in Form-7B (4) of the ARR filing.

d. Interest on Working Capital:

The interest on working capital is computed as **Rs. 41.658 lacs** as per OERC Regulation considering 12.1% rate of interest (SBI base rate 9.1% plus 300 basis points). Even though SLDC has not taken loan to meet the working expenses, the provision has been kept due to non-receipt of SLDC charges from the users for

two months from the commencement of financial year. The loss of interest for the above amount is being recovered as interest on working capital. The details on working capital requirement and interest on it is given in table-3 below.

Table – 3: Statement of Interest on Working Capital

(in Rs. Lacs)

Particulars	Amount Lacs
O&M expenses for one month excluding human resources expenses	16.962
Human resource expenses for one month	92.233
Receivables (2 months of SOC & MOC)	235.088
Total Working Capital	344.283
Rate of Interest	12.1%
Interest on working capital	41.658

Total expenses proposed by SLDC for FY 2018-19 is given in table – 4 below.

Table – 4: Abstract of Expenses Proposed for FY 2018-19

(in Rs. Lacs)

Sl. No.	Particulars	2018-19
1	Return on Equity	0.000
2	Interest on Loan Capital	0.000
3	Depreciation	58.528
4.	O&M Expenses excluding human resource expenses	203.540
5.	Human Resource expenses	1106.799
6.	Interest on Working Capital	41.658
	Total expenses	1410.525

Certificate of LDC Personnel:

- The committee on “Manpower, Certification and Incentives for System Operation and Ring fencing Load Despatch Centres” has recommended compensation structure, innovative incentive schemes for higher learning and monetary incentives based on the ratings of the employees. For imparting training to the executives, the expenditure for Training & Certification of LDC personnel has been projected as Rs 10 lacs for FY 2018-19.

SLDC Assets:

- Most of the assets of SLDC along with sub-SLDC have been identified for transfer as per the direction of the Commission.

Determination of Annual Charges for SLDC:

9. The Annual Charges for SLDC have been computed as per provision in Regulation 17, 18, 19, 20, 21 & 22 of OERC Regulation as detailed below:

Annual charges: Annual charges computed shall comprise of

- a) **System Operation Charges (SOC)** i.e. 80% of Annual charge
 - b) **Market Operation Charges (MOC)** i.e. 20% of Annual charge
- **System Operation Charges (SOC)** shall be collected from the users in the following ratio
 - Intra State Transmission Licensee - 10% on the basis of Ckt-KMs
 - Generating Company & Seller - 45% on the basis of installed capacity
 - Distribution Licensee and Buyers - 45% on the basis of allocation
 - **Market Operation Charges (MOC)** shall be collected equally from the DISCOMs and Generating Companies apportioning to the entitlement and installed capacity respectively.
 - As per the proposed maintenance program, the installed capacity of OHPC stations has been considered as 1755 MW as per the availability projection made by OHPC considering the R&M programme. (**Annexure – II**)
 - For the purpose of determination of the above charges for CGPs, the maximum MW scheduled during April to October 2017 has been considered.
 - In the absence of approved injection schedule for some of the CGPs during FY 2017-18 (up to October 2017), the approved schedule quantum for previous year has been considered.
 - Further, it has been proposed to collect SLDC charges from industries which are importing power through intra/inter-state open access only for the month of their transaction basing on the maximum scheduled quantum.

Table – 5: Abstract of Collection of SLDC Charges Proposed for FY 2018-19

(in Rs. lacs)

Annual charges (AFC)	1410.525
System Operation Charges (SOC) (80% of the AFC)	1128.420
Intra State Transmission Licensee @10% of SOC	112.842
Generating Station & Sellers @45% of SOC	507.789
Distribution Licensees & Buyers@45% of SOC	507.789
Market Operation Charges (MOC) (20% of the AFC)	282.105
Generating Station & Sellers @50% of MOC	141.0525
Distribution Licensees & Buyers@50% of MOC	141.0525

The details of proposed fees and charges by SLDC are presented in **Annexure-III**.

Registration Fee:

10. Besides the above charges, provision for collection of registration fee @ Rs1.00 lac from all users has been made as per OERC Regulation. It is also proposed to collect registration fee from the industries who are importing power through inter-state open access.

Application Fee and Scheduling Charges:

11. Application fee and scheduling charges of Rs 5000/- per application and Rs.2000/- per day or part thereof respectively shall be paid by the short term open access customers.

Prayer

Considering the submission made above, OPTCL prays Commission to approve the Annual Revenue Requirement of **Rs.1410.525 lacs** for FY 2018-19 towards State Load Dispatch Centre (SLDC) function separately and kindly allow recovering the same from the users.

Compliance of directions of Hon'ble Commission

12. On reply to the Commission on independent functioning of SLDC, the OPTCL has replied that as per provision under Section 31(2) of the Electricity Act, OPTCL, being the designated STU, is operating SLDC at present. SLDC is now operating autonomously as an independent system operator headed by Chief Load Despatcher, under the direct administrative control of the Chairman-cum-Managing Director of OPTCL. The post of Director has already been approved by Government of Odisha. Further SLDC is processing the open access applications independently in accordance with the prevailing regulations.
13. In response to another concern of Commission on transfer of assets to SLDC, the OPTCL has responded by saying that all assets pertaining to SLDC & Sub-LDCs have been identified and used exclusively by SLDC personnel. Transfer of assets shall be done through a 'Transfer Scheme' by Government of Odisha after due notification.

Position wise Role & Responsibilities proposed**1. Chief Load Despatcher**

The SLDC function shall be headed by a Chief Load Despatcher in the rank of a Director. He shall be assisted by two Sr. Load Despatchers one in the rank of CGM and the other in the rank of Sr. GM for conducting the real time grid operation / support services and commercial activities respectively. For technical assistance one Executive Assistant in the rank of DGM and one no. of Sr. Private Secretary shall be attached to the Chief Load Despatcher. All technical function Heads shall be reporting to their respective Sr. Load Dispatchers. The position wise role and responsibility are detailed in the tables.

2. Grid Operation headed by CGM (Grid Operation)

The details of manpower and functions under CGM (Grid Operation) are given in the table below. For technical assistance one Executive Assistant in the rank of Dy. Manager and one no. of Private Secretary shall be attached to the C.G.M.

Work	Function	Manpower
A. Real time operation headed by GM(Elect), Operation:		
1.1 Real Time Operation	Generation Despatch <ul style="list-style-type: none"> • Real time generation dispatch as per merit • Scheduling revisions Transmission Despatch <ul style="list-style-type: none"> • Network monitoring and control • Congestion management • Voltage & VAr control 	1 No DGM (E) SLDC – 4 groups 5 Nos. of Executives in each group consisting of 1 No. AGM (E) 1 No. Manager (E) 1 No. Dy. Manager (E) 1 No. Asst. Manager (E) 1 No. AM(T) Total-21 nos.
Operational Planning	<ul style="list-style-type: none"> • Operational System Analysis • Shutdown planning • Operational report preparation • Management of data base • Transmission / Generation availability Monitoring • EMS 	1 No. D.G.M. (E) 1 Nos of Dy. Manager (E) Total-2 nos.
SCADA/EMS Group	<ul style="list-style-type: none"> • Monitoring of communication link availability such as Optical Fiber, MW, PLCC etc.(to be maintained by STU) 	1 No. DGM(T) 2 Nos. Dy. Manager(T) Total - 3 nos.

Work	Function	Manpower
	<ul style="list-style-type: none"> • Monitoring of RTU availability in coordination with STU Telecom Dept. • SCADA System (hardware) maintenance. • To develop suitable MIS for grid monitoring. • Maintaining Historical database. • Interface with ULDC project. • To build up accounting oriented information system. • Co-ordination with all Sub-SLDCs 	
B. Operation Services, MIS & Regulatory Affairs headed by G.M.(Elect). (OS, MIS& RA)		
Operation Services Group	<ul style="list-style-type: none"> • Demand forecast- Short term (Day ahead & Month ahead) • Day ahead scheduling of generation and optimization, in coordination with the State generators, ISGS allotment and neighboring utilities such as CGP, DISCOMs, etc. • Scheduling of drawl of DISCOMs • Maintenance of Historical data and database. • Short term transaction (Open Access) coordination with traders • Off-line load flow study for outage planning and real time operation • Network Security and disturbance Analysis • Protection coordination • Implementation plan for intra state ABT 	1 No DGM (E) 1 No AGM (E) 1 No. Manager (E) 4 No A.M. (E) Total- 7 nos.
MIS & RA	<ul style="list-style-type: none"> • Data Archiving & Management report preparation • System Study • Incident Reporting & Disturbance Analysis • Meetings • Technical Library • OERC Reporting • ARR • Regulation and Regulatory matters 	
LEGAL	<ul style="list-style-type: none"> • All legal matters 	1 No. Dy. Manager(Legal)

3. **Commercial Group headed by Sr. General Manager (Commercial)**

The details of manpower and functions under Sr. General Manager (Commercial) are given in the table below.

Work	Function	Manpower
Commercial, TS & C & M shall be headed by GM(Elect):		
Commercial Group	<ul style="list-style-type: none"> • Reviewing Long term contracts and Short term contracts • Energy meter data collection & compilation • Review of metering arrangement for Short-term contracts. • Development of Billing & Settlement procedures and keeping of accounts of energy transacted. • Preparation of UI bill for intra state utilities in case of implementation of Intra state ABT. • Preparation of State Energy Accounting and Bills for State Distribution Utilities. 	1 No AGM (E) 2 Nos Managers (E) 2 Nos Dy. Manager (E) 3 Nos A.M. (E) Total - 08 nos.
Technical Services / Contract & Material Management Group	<ul style="list-style-type: none"> • AC/DC auxiliary supply • Diesel generator operation and maintenance • UPS, battery / charger maintenance • Safety • Civil works maintenance. • Air conditioning plant maintenance. • Award of contract and contract execution • Material management and maintenance of stores. 	1 No D.G.M. (E)

4. SUPPORT SERVICES FOR SLDC UNDER DIRECTOR, SLDC

The functions directly controlled by Director, SLDC are given in the Table below.

A. HUMAN RESOURCES MANAGEMENT	<ul style="list-style-type: none"> • Manpower planning, Training, Budgeting & placement • Personal services (Leave / Loan / Recoveries etc) • Installation Security and safety • Human resource development • Public Relation • Administration. 	1 No. G.M. (HR) 1 No. DGM (HR) 1 No Dy. Manager (HR) Total – 3 no.
B. FINANCE	<ul style="list-style-type: none"> • Drawing and Disbursing functions • Auditing and Reconciliation • Maintenance of asset registers • Budget & Accounts 	1 No. DGM (F) 1 No. Dy. Manager (F) 1 No. Jr. Manager (F) Total - 3 nos.
C. SECRETARIAL STAFF	<ul style="list-style-type: none"> • Day to day secretarial work 	4 Nos. Office Assistant 4 Nos. Steno / Comp. Asst. Total - 8 nos.

Abstract of Staff Requirement for SLDC

1. Executive Staff Requirement:

Sl. No.	Category of Posts	Total Nos.
1	Director (Chief Load Despatcher)	01
2	Executive Assistant to Director [DGM(E)]	01
1.2 A. GRID OPERATION		
REAL TIME OPERATION		
3	CGM (Elect)	01
4	Executive Assistant to CGM [Deputy Manager (E)]	01
5	General Manager (Elect)	01
6	DGM (Elect)	01
7	AGM (Elect)	04
8	Manager (Electrical)	04
9	Deputy Manager (Electrical)	04
10	Assistant Manager (Electrical)	04
11	Assistant Manager (Telecom)	04
OPERATIONAL PLANNING		
12	DGM (Elect)	01
13	Deputy Manager (Electrical)	01
SCADA		
14	DGM (Telecom)	01
15	Deputy Manager (Telecom)	02
A. OS, RA & MIS		
16	General Manager (Elect)	01
17	DGM (Elect)	01
18	AGM (Electrical)	01
19	Manager (Electrical)	01
20	Assistant Manager (Electrical)	04
21	Deputy Manager (Law)	01
B. COMMERCIAL SERVICES		
22	Sr. General Manager (Elect)	01
Commercial, Tech Services, Contract & Material Management		
23	General Manager (Commercial, TS, C&M)	01
COMMERCIAL		
24	AGM (Elect)	01
25	Manager (Electrical)	02
26	Deputy Manager (Electrical)	02
27	Assistant Manager (Electrical)	03
TECHNICAL SERVICES / CONTRACT & MATERIAL MANAGEMENT		
28	DGM (Electrical)	01
D. HRM		

Sl. No.	Category of Posts	Total Nos.
29	General Manager (HR)	01
30	DGM (HR)	01
31	Deputy Manager (HR)	01
E. FINANCE		
32	DGM (Finance)	01
33	Deputy Manager (Finance)	01
34	Junior Manager (Finance)	01
F. SECRETARIAL		
35	Sr. PS to Director	01
36	PA / PS	01
	TOTAL EXECUTIVES	59

2. Non-Executive Staff Requirement:

Sl. No.	Category of Posts	Total Nos.
1	Steno / Comp. Asst.	04
2	Office Assistant	04
	TOTAL NON-EXECUTIVES	8

Total Staff Requirement proposed for SLDC=1 + 2 = 59 + 8= 67 Nos.

Annexure – II

Computation of Installed Capacity of OHPC Stations for FY 2018-19

Units	Capacity (MW)	Zero Date of R&M	Tentative Date of Commercial Operation	Period of Shut Down during FY 2018-19	Capacity Available during the Period of Shut Down	Average available Installed Capacity during FY 2018-19 for Sharing of SLDC Charges
Unit – 3, CHEP	24	15.10.2015	15.07.2018	04/18 to 07/18	i) 4/18 to 7/18: 1808.5 MW	$[(1808.5 \times 4) + (1712.5 \times 7) + (1832.5 \times 1)] / 12 = 1754.5 \text{ MW}$
Unit – 6, HHEP	37.5	16.10.2015	15.04.2019	04/18 to 03/19	ii) 8/18 to 2/19: 1712.5 MW	
Unit – 1, BHEP	60	05.08.2016	05.02.2019	04/18 to 02/19	iii) 3/19: 1832.5 MW	
Unit – 5, HHEP	37.5	25.10.2016	30.05.2019	04/18 to 03/19		
Unit – 2, BHEP	60	20.11.2017	05.02.2019	04/18 to 02/19		
Unit – 3, BHEP	60	05.08.2018	05.02.2020	08/18 to 03/19		
Unit – 4, BHEP	60	05.08.2018	05.02.2020	08/18 to 03/19		

Annexure -III

**Proposed Levy and Collection of Fees and Charges by OPTCL for SLDC operation for
FY 2018-19**

LEVY AND COLLECTION OF FEES & CHARGES (Rs. in Lacs)

Annual charges	1410.525
Total Cost (Annual Fixed Cost)	1410.525
System Operation Charges (SOC) (80% of the AFC)	1128.420
Market Operation Charges (MOC) (20% of the AFC)	282.105
System Operation Charges (SOC)	1128.420
Intra State Transmission Licensee @10% of SOC	112.842
Generating Station & Sellers @45% of SOC	507.789
Distribution Licensees & Buyers@45% of SOC	507.789
(a) Intra State Transmission Licensee (SOC per month)	9.404
(b) Generating Station & Sellers @45% of SOC	507.789

(Rs. in Lacs)

Sl. No.	Generating Company / Sellers	Installed Capacity (MW)	Total amount	Total amount
			(Annual)	(Monthly)
A	State Generating Station			
1	OHPC	1755.00	195.294	16.274
2	OPGC	420.00	46.737	3.895
3	TTPS	460.00	51.188	4.266
B	Small Hydro & Bio-mass			
4	OPCL (Small Hydro)	20.00	2.226	0.185
5	Meenakshi Power Ltd. (Small Hydro)	37.00	4.117	0.343
6	Shalivahana Green Energy Ltd	20.00	2.226	0.185
C	IPP			
7	GMR, Kamalanga	350.00	38.948	3.246
8	Vedanta Limited (IPP)	600.00	66.767	5.564
9	NBVL (IPP)	60.00	6.677	0.556
D	CGPs	Maximum Scheduled (MW) (up to end of October-2017)		
10	Aarti Steel Ltd	37.21	4.141	0.345
11	Aditya Aluminium Limited	2.00	0.223	0.019
12	Aryan Ispat & Power Pvt. Ltd.	8.67	0.965	0.080
13	Bhubaneswar Power Pvt. Ltd.	115.00	12.797	1.066
14	Bhusan Power & Steel Ltd.,Jharsuguda	30.00	3.338	0.278
15	Bhusan Steel Limited, Meramundali	20.88	2.323	0.194
16	ESSAR Power (Orissa) Ltd.	12.00	1.335	0.111
17	FACOR Power Ltd.	10.98	1.222	0.102

18	HINDALCO	15.00	1.669	0.139
19	IFFCO	10.00	1.113	0.093
20	IMFA	48.08	5.350	0.446
21	Jindal Stainless Limited, Duburi	18.81	2.093	0.174
22	Jindal Steel & Power Ltd., Angul	86.93	9.673	0.806
23	Maithan Ispat Limited	2.00	0.223	0.019
24	MGM Minerals Ltd.	3.00	0.334	0.028
25	NALCO, Angul	61.00	6.788	0.566
26	Narbheram Power & Steel (P) Ltd	3.00	0.334	0.028
27	Nava Bharat Ventures Limited	47.74	5.312	0.443
28	Nilachal Ispat Nigam Limited	4.91	0.546	0.046
29	OCL India Ltd.	19.79	2.202	0.184
30	Pattaniak Steel & Alloys Limited	2.00	0.223	0.019
31	RSP	4.00	0.445	0.037
32	Shree Ganesh Metalicks Limited	1.05	0.117	0.010
33	Shyam Metalicks & Energy Limited	1.00	0.111	0.009
34	SMC Power generation	4.00	0.445	0.037
35	Tata Sponge Iron Limited	20.18	2.246	0.187
36	Vedanta Limited (Jharsuguda)	169.99	18.916	1.576
37	Vedanta Limited (Lanjigarh)	5.00	0.556	0.046
38	VISA Steel Limited	25.00	2.782	0.232
39	Yazdani Steel & Power Limited	2.00	0.223	0.019
E	Solar Projects	Installed Capacity (MW)		
40	ACME, Odisha	25.00	2.782	0.232
41	AFTAB Solar	5.00	0.556	0.046
42	GEDCOL	20.00	2.226	0.185
	Total	4563.22	507.789	42.316
(c)	Distribution Licensees & Buyers @45% of SOC		507.789	
		% share		
43	CESU	35.20	178.742	14.895
44	NESCO	22.59	114.710	9.559
45	WESCO	28.20	143.197	11.933
46	SOUTHCO	14.00	71.090	5.924
	Total	99.99	507.738	42.312

Market Operation Charges**(MOC)****282.105****(a) Generating Company @50%
of MOC****141.053***(Rs. in
Lacs)*

Sl. No.	Generating Company / Sellers	Installed Capacity (MW)	Total amount	
			(Annual)	(Monthly)
A	State Generating Station			
1	OHPC	1755.00	54.248	4.521
2	OPGC	420.00	12.983	1.082
3	TTPS	460.00	14.219	1.185
B	Small Hydro & Bio-mass			
4	OPCL (Small Hydro)	20.00	0.618	0.052
5	Meenakshi Power Ltd. (Small Hydro)	37.00	1.144	0.095
6	Shalivahana Green Energy Ltd	20.00	0.618	0.052
C	IPP			
7	GMR, Kamalanga	350.00	10.819	0.902
8	Vedanta Limited (IPP)	600.00	18.546	1.546
9	NBVL (IPP)	60.00	1.855	0.155
D	CGPs	Maximum Scheduled (MW) (up to end of October-2017)		
10	Aarti Steel Ltd	37.21	1.150	0.096
11	Aditya Aluminium Limited	2.00	0.062	0.005
12	Aryan Ispat & Power Pvt. Ltd.	8.67	0.268	0.022
13	Bhubaneshwar Power Pvt. Ltd.	115.00	3.555	0.296
14	Bhusan Power & Steel Ltd.,Jharsuguda	30.00	0.927	0.077
15	Bhusan Steel Limited, Meramundali	20.88	0.645	0.054
16	ESSAR Power (Orissa) Ltd.	12.00	0.371	0.031
17	FACOR Power Ltd.	10.98	0.339	0.028
18	HINDALCO	15.00	0.464	0.039
19	IFFCO	10.00	0.309	0.026
20	IMFA	48.08	1.486	0.124
21	Jindal Stainless Limited, Duburi	18.81	0.581	0.048
22	Jindal Steel & Power Ltd., Angul	86.93	2.687	0.224
23	Maithan Ispat Limited	2.00	0.062	0.005
24	MGM Minerals Ltd.	3.00	0.093	0.008

25	NALCO, Angul	61.00	1.886	0.157
26	Narbheram Power & Steel (P) Ltd	3.00	0.093	0.008
27	Nava Bharat Ventures Limited	47.74	1.476	0.123
28	Nilachal Ispat Nigam Limited	4.91	0.152	0.013
29	OCL India Ltd.	19.79	0.612	0.051
30	Pattaniak Steel & Alloys Limited	2.00	0.062	0.005
31	RSP	4.00	0.124	0.010
32	Shree Ganesh Metalicks Limited	1.05	0.032	0.003
33	Shyam Metalicks & Energy Limited	1.00	0.031	0.003
34	SMC Power generation	4.00	0.124	0.010
35	Tata Sponge Iron Limited	20.18	0.624	0.052
36	Vedanta Limited (Jharsuguda)	169.99	5.255	0.438
37	Vedanta Limited (Lanjigarh)	5.00	0.155	0.013
38	VISA Steel Limited	25.00	0.773	0.064
39	Yazdani Steel & Power Limited	2.00	0.062	0.005
E	Solar Projects	Installed Capacity (MW)		
40	ACME, Odisha	25.00	0.773	0.064
41	AFTAB Solar	5.00	0.155	0.013
42	GEDCOL	20.00	0.618	0.052
	Total	4563.22	141.053	11.754

(b) Distribution Licensees & Buyers @50% of MOC

141.053

Sl.		% share		
43	CESU	35.20	49.650	4.138
44	NESCO	22.59	31.864	2.655
45	WESCO	28.20	39.777	3.315
46	SOUTHCO	14.00	19.747	1.646
	Total	99.99	141.038	11.753
