

समझौता जापन

वर्ष 2016-17

के लिए

पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड

और

विद्युत मंत्रालय, भारत सरकार

के बीच

MoU for the year 2016-2017

between

**Power Grid Corporation of India Limited
(POWERGRID)**

&

Ministry of Power

MoU for FY 2016-17 between POWERGRID & Ministry of Power

S. No.	Evaluation Criteria	Units	Weights	Parameter Scale for FY 2016-17				
				Excellent	V. Good	Good	Fair	Poor
1	2	3	4	5	6	7	8	9
i.	Capacity Utilisation:							
	a. Transmission lines ready for commissioning ✓	GW-ckm	5 ✓	15000 ✓	14000 ✓	13000 ✓	12000 ✓	11000 ✓
	b. Transformation capacity ready for commissioning ✓	MVA	5 ✓	32000 ✓	31000 ✓	30000 ✓	29000 ✓	28000 ✓
ii.	Efficiency Parameters (Physical Operations)							
	A Production efficiency							
	a. National Grid Augmentation - Inter-regional Transfer capacity ✓	MW	10 ✓	14000 ✓	12500 ✓	11000 ✓	9500 ✓	8000 ✓
	B Technology Up-gradation							
	a. Installation and integration of Phasor Measurement Units (PMUs) leading to Smart Grid Technology ✓	Nos.	5 ✓	350 ✓	320 ✓	290 ✓	260 ✓	230 ✓
iii.	Leveraging Net Worth							
	a. CAPEX (Including Subsidiaries)* # ✓	Rs in crore	15 ✓	23,000 ✓	22,000 ✓	21,000 ✓	20,000 ✓	19,000 ✓
	* In case of investment in subsidiaries, the actual CAPEX accounted in their books of accounts will be considered. # Details as per Annexure A ✓							
iv.	Monitoring Parameter							
	a. Percentage of value of CAPEX contracts/ projects completed during the year without time/ cost overrun to total value of CAPEX contracts running/ completed during the year ✓	%	5 ✓	100 ✓	90 ✓	80 ✓	70 ✓	60 ✓

MdU 2016-17
Approved by IMC
Signed *Vijay Kumar*

MoU for FY 2016-17 between POWERGRID & Ministry of Power

S. No.	Evaluation Criteria	Units	Weights	Parameter Scale for FY 2016-17				
				Excellent	V. Good	Good	Fair	Poor
1	2	3	4	5	6	7	8	9
v	Turnover for Operations							
	a. Revenue from Operations (Net of excise duty)	Rs. in crore	5	24,000	23,500	23,000	22,500	22,000
vi.	Operating Profit/ Surplus#							
	a. Operating Profit (Profit before Tax excluding Other Extraordinary and Exceptional Items)	Rs. in crore	10	8,000	7,800	7,600	7,400	7,200
vii.	Early signs of weakness							
	a. Reduction in claims against the Company not acknowledged as debt, over the previous year. Claims raised by - CPSEs & Others	%	5	1	0.9	0.8	0.7	0.6
viii.	Marketing efficiency ratios							
	a. Revenue from Telecom Segment	Rs in crore	5	450	400	375	350	325
	b. Trade Receivables as percentage of Revenue from Operations (Gross)	%	5	22	24	26	27	28
ix.	Return on Investment							
	a. Dividend/ PAT	%	5	20	19	18	17	16
	b. PAT/ Net worth	%	10	13.8	13.5	13.3	13.1	13
	c. Dividend/ Net worth	%	5	2.76	2.57	2.39	2.23	2.08

MoU 2016-17
 Approved by IMC
 Signed: [Signature]

MoU for FY 2016-17 between POWERGRID & Ministry of Power

S. No.	Evaluation Criteria	Units	Weights	Parameter Scale for FY 2016-17				
				Excellent	V. Good	Good	Fair	Poor
1	2	3	4	5	6	7	8	9
x.	Sector/CPSE Specific targets							
a.	Achieving prescribed milestones without time overrun in respect of under-construction transmission lines subsidiaries ✓	% ✓	3 ✓	100 ✓	90 ✓	80 ✓	70 ✓	60 ✓
b.	Return from Investment in Joint Ventures \$ ✓	% ✓	2 ✓	9 ✓	8 ✓	7.5 ✓	7 ✓	6.5 ✓
	Total		100					
	\$ Details as per Annexure B ✓							
	Notes:							
1	The targets approved by IMC are based on Provisional/Estimated figures submitted by the CPSE for FY 2015-16. In case of better performance of the CPSE during the year 2015-16 as compared to Provisional figures, the difference between actual figures and provisional figures shall be added to the targets of 2016-17. ✓							
2	At the time of MoU Evaluation, wherever achievement is not verifiable from annual report of the CPSE, the same would be accepted on the basis of certification by way of resolution from Board of Directors. ✓							
3	The targets decided in MoU are unconditional {Except Parameter iii} and no offset will be allowed in any condition. Further evaluation would be subject to compliance of additional eligibility criteria as contained in para 14.2 and 14.3 of MoU guidelines 2016-17. ✓							


(आई एस झा)

अध्यक्ष एवं प्रबन्ध निदेशक, पावरग्रिड



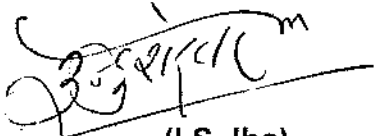
(प्रदीप कुमार पुजारी)
सचिव, विद्युत मंत्रालय

MoU 2016-17
Approved by IMC
Signed 

MEMORANDUM OF UNDERSTANDING 2016-17

Self- declaration/ certification by CPSE

It is hereby certified that the targets/ actual achievements in respect of MoU parameters have been worked out as per MoU Guidelines by adopting the norms and definitions laid down in MoU Guidelines for the year 2016-17. In case, any deviation is found at any point of time, DPE is free to evaluate the performance as per MoU Guidelines. CPSE has no right of claim in this regard.



(I.S.Jha)
CMD, POWERGRID

Annexure for Parameter (iii)

CAPEX PLAN

No	Name of the Projects/Scheme/Programme	Estimated Cost (Rs. Cr.)	Expenditure planned during 2016-17 (Rs in Crore)	Scheduled Date commissioning (Approved)	Milestones along with date		
					Stringing (CKM)	Transformer Erection (No.)	
A. ONGOING SCHEMES							
1	NE - NR/NW INTERCONNECTOR - I	13762.71	470	Dec'17	114		Mar-17
2	TR. SYSTEM FOR DEVELOPMENT OF POOLING STATION IN NORTHERN REGION OF WEST BENGAL AND TRANSFER OF POWER FROM BHUTAN TO NR/WR	4404.57	1090	Jan'15*	135	6	Mar-17
3	AUGMENTATION OF TRANSFORMERS IN NORTHERN REGION - PART-B.	155.57	110	Mar'16*		5	Dec-16
4	BUS REACTORS IN NORTHERN REGION (PHASE-II)	87.27	40	Aug'17	Outlay kept for civil works, supply and erection (start)		Mar-17
5	NORTHERN REGION SYSTEM STRENGTHENING SCHEME - XXVII	96.27	5	Aug'14	Project completed in Jun-16. Outlays for final payments (progressive)		Mar-17
6	NORTHERN REGION SYSTEM STRENGTHENING SCHEME -XXV	680.69	75	Mar'16*	70		Sep-16
7	TRANS. SYSTEM ASSOCIATED WITH ALLATANA GAS BASED POWER PROJECT AND BONGAIGAON THERMAL POWER STATION (BTPS)	2932.88	150	Dec'16	358		Mar-17
8	NORTH EASTERN REGION STRENGTHENING SCHEME -II (PART-A)	28.71	10	May'17		2	May-16
9	NORTH EASTERN REGION STRENGTHENING SCHEME -II (PART-B)	50.00	5		Outlay kept for initial preparatory works like levelling etc (start).		Mar-17
10	NORTH EASTERN REGION STRENGTHENING SCHEME -III	134.00	55	Dec'17	Outlay kept for civil works, supply and erection (start)		Mar-17
11	NORTH EASTERN REGION STRENGTHENING SCHEME -IV	364.60	45	May'18	Outlay kept for civil works and supply (start)		Mar-17
12	RADIAL INTERCONNECTION BETWEEN INDIA (NER) AND BANGLADESH - INDIA PORTION	73.27	5	Apr'16	Project completed in Jan-16. Outlays for final payments (progressive)		Mar-17
13	INSTALLATION OF TRANSFORMER & PROCUREMENT OF SPARE CONVERTER TRANSFORMER AT BHADRAWATI HVDC B/B STN.	169.02	85	May'18	Outlays kept for balance HVDC spare Transformer supply		Mar-17
14	INTER-REGIONAL SYSTEM STRENGTHENING SCHEME IN WR AND NR (PART-A)	970.79	70	Oct'16	Project completed in Sep-15. Outlays for final payments (progressive)		Mar-17
15	SYSTEM STRENGTHENING - XVII IN SOUTHERN REGIONAL GRID	1257.28	40	Mar'15	Project completed in Dec-15. Outlays for final payments (progressive)		Mar-17
16	SYSTEM STRENGTHENING IN NORTH/WEST PART OF WR FOR IPP PROJ. IN CHHATTISGARH. PART - E	2228.71	150	Dec'15*	300	2	Mar-17
17	SYSTEM STRENGTHENING IN RAIPUR - WARDHA CORRIDOR FOR IPP PROJECT IN CHHATTISGARH - PART - 6	1875.13	150	Jan'15*	430		Dec-16
18	TRANSMISSION SYSTEM ASSOCIATED WITH MAUDA STAGE-II (2X660MW) GEN. PROJ.	1575.00	265	May'16*	550	2	Dec-16
19	TRANSMISSION SYSTEM ASSOCIATED WITH MUNDRA ULTRA MEGA POWER PROJ.	5071.94	95	Oct'12*	520		Mar-17
20	TRANSMISSION SYSTEM STRENGTHENING IN WESTERN PART OF WR FOR IPP GENERATION PROJECTS IN CHHATISGRH - PART-D	2619.56	45	Jul'14*	344		Dec-16
21	WARDHA - HYDERABAD 765 KV LINKS	3662.02	1900	May'18	550		Mar-17
22	WESTERN REGION STRENGTHENING SCHEME - V	738.48	5	Dec'16	142		Mar-17
23	INSTALLATION OF STATCOM IN WR	1071.24	500	Sep'17	Outlay kept for civil works and supply (start)		Mar-17
24	NORTHERN REGION SYSTEM STRENGTHENING SCHEME -XXXII	908.08	245	Jun'16*	539	3	Mar-17
25	NORTHERN REGION SYSTEM STRENGTHENING SCHEME -XXXIV	148.76	60	Jul'17	15		Mar-17
26	NORTHERN REGIONAL SYSTEM STRENGTHENING SCHEME - XVI	689.03	25	Nov'15*	90		Oct-16

No	Name of the Projects/Scheme/Programme	Estimated Cost (Rs. Cr.)	Expenditure planned during 2016-17 (Rs in Crore)	Scheduled Date commissioning (Approved)	Milestones along with date		
					Stringing (CKM)	Transformer Erection (No.)	
27	NORTHERN REGIONAL SYSTEM STRENGTHENING SCHEME - XXIV	804.76	40	Nov'14*	178		Dec-16
28	PROVISION OF 400KV BAYS FOR LINE UNDER NORTHERN REGION SYSTEM STRENGTHENING SCHEME - XXXI-B	118.18	35	Sep'16	Outlay kept for civil works, supply and erection (finish)		Oct-16
29	STATIC VAR COMPENSATORS (SVCS) IN NORTHERN REGION	829.98	200	Aug'16	Outlay kept for civil works, supply and erection (finish)		Dec-16
30	STRENGTHENING SCHEME IN NORTHERN REGION	100.55	15	Oct'14*	S/S Extn. likely to be completed in Jul-16. Outlays kept for spares (finish) & final payments (progressive).		MAR'17
31	TRANS. SYATEM STRENGTHENING IN WR - NR TRANSMISSION CORRIDOR FOR IPP'S IN CHAITTISGARH	5151.37	1600	Mar'18	Outlay kept for civil works, supply and erection (start)		Mar-17
32	TRANSMISSION SYSTEM ASSOCIATED WITH KISHANGANGA HEP	268.80	70	Mar'18	88		Mar-17
33	TRANSMISSION SYSTEM FOR PHASE-I GENERATION PROJECTS IN ORISSA- PART- C	3054.03	5	Dec'15 (BPTA)	Project completed in Aug-15. Outlays for spares (finish) & final payments (progressive).		MAR'17
34	WR - NR HVDC INTERCONNECTOR FOR IPP ROJECTS IN CHATTISGARH	9569.76	795	Jun'15*	983	8	MAR'17
35	STATCOM AT NR	652.45	5		Outlay kept for initial preparatory works like levelling etc (start).		MAR'17
36	PROVISION OF SPARE 765KV ICTS IN NR	27.16	10		Outlay kept for advance against award, supply etc (start).		MAR'17
37	NORTHERN REGION SYSTEM STRENGTHENING SCHEME -XXIX	57.00	15	Nov'18	Outlay kept for civil works, supply and erection (start)		MAR'17
38	TS ASSOCIATED WITH SHOLAPUR-II NTPC	50.52	40	Mar'17	Outlay kept for civil works, supply and erection (finish).		MAR'17
39	INSTALLATION OF BUS REACTOR & ICT IN WESTERN REGION	303.07	165	July'16		5	Dec-16
40	SYSTEM STRENGTHENING COMMON FOR WESTERN REGION AND NORTHERN REGION (LINE BAYS & REACTOR PROVISION)	195.28	15	Mar'14	Project completed in Aug-15. Outlays for spares (finish) & final payments (progressive).		MAR'17
41	TRANSMISSION SYSTEM ASSOCIATED WITH LARA STPS - I GEN. PROJ. NTPC	400.47	160	Apr'17	200		MAR'17
42	COMMON SYSTEM ASSOCIATED WITH EAST COAST ENERGY PVT. LTD AND NCC POWER PROJECTS LTD. LTOA GEN. PROJ. IN SRIKAKULAM AREA - PART - B	2514.88	800	Dec'15*	720		MAR'17
43	TRANSMISSION SYSTEM FOR PHASE-I GENERATION PROJECTS IN JHARKHAND AND WEST BENGAL - PART - A2.	2455.66	90	Aug'14	Project completed in Apr-16. Outlays for spares (finish) & final payments (progressive).		Mar-17
44	EASTERN REGION STRENGTHENING SCHEME - III	1731.10	65	Dec'16	42		Mar-17
45	EASTERN REGION STRENGTHENING SCHEME - VIII	95.68	5	Feb'16	Project completed in Feb-16. Outlays for spares (finish) & final payments (progressive).		Jun-16
46	COMMON TR. SYSTEM ASSOCIATED WITH EAST COAST & NCC POWER PROJECTS IN SRIKAKULAM AREA PART-A	1909.24	90	Jun'15*	402		AUG'16
47	COMMON SYSTEM ASSOCIATED WITH EAST COAST ENERGY PVT. LTD AND NCC POWER PROJ. LTD. LTOA GEN. PROJ. IN SRIKAKULAM AREA - PART-C	514.20	40	Jun'15*		2	AUG'16
48	ESTABLISHMENT OF POOLING STATION AT CHAMPA AND RAIGARH (NEAR TAMNAR) FOR IPP GEN. PROJ. IN CHHATISGARH - B	2310.58	60	Jun'16*		2	Oct-16
49	SPLIT BUS ARRANGEMENT FOR VARIOUS SUB STATIONS IN EASTERN REGION	146.73	5	Mar'16*	Outlay kept for civil works, supply, erection and spares (finish) & final payments (progressive).		Mar-17
50	TRANSMISSION SYSTEM FOR TRANSFER OF POWER FROM GENERATION PROJECT IN SIKKIM TO NR/WR PART - A.	390.51	20	Mar'16*	Outlays for spares (finish) & final payments (progressive).		Mar-17
51	EASTERN REGION STRENGTHENING SCHEME - XIII	121.38	20	Nov'16	Project completed in Mar-16. Outlays for spares (finish) & final payments (progressive).		Mar-17

No	Name of the Projects/Scheme/Programme	Estimated Cost (Rs. Cr.)	Expenditure planned during 2016-17 (Rs in Crore)	Scheduled Date commissioning (Approved)	Milestones along with date		
					Stringing (CKM)	Transformer Erection (No.)	
52	EASTERN REGION STRENGTHENING SCHEME-IX	197.00	90	Feb'16*		2	Dec-16
53	EASTERN REGION STRENGTHENING SCHEME-XII	522.29	190	Nov'16		7	NOV'16
54	EASTERN REGION STRENGTHENING SCHEME-V	1364.52	300	Apr'16*	911	2	Mar-17
55	SYSTEM STRENGTHENING IN SR - XIII & ICT at Vemagiri	639.46	100	Mar'16*	122	1	Mar-17
55	SYSTEM STRENGTHENING IN SR - XXII	244.00	0	Aug'16			
56	SYSTEM STRENGTHENING IN SR - XX	298.49	240	Feb'17		5	FEB'17
57	TRANS. SYSTEM FOR CONNECTIVITY FOR NCC POWER PROJECT LTD	188.75	25	Feb'17	Project completed in Mar-16. Outlays for spares (finish) & final payments (progressive).		Mar-17
58	TRANSMISSION SYSTEM FOR ULTRA MEGA SOLAR PARK IN ANANTPUR DISTRICT, ANDHARA PRADESH - PART-A (PHASE-I)	312.94	90	May'16*	21	3	Jun-16
59	PROVISION FOR LINE BAYS FOR CONNECTIVITY LINES FOR MAHESWARAM (HYDERABAD) 765/400KV GIS POOLING STATION	74.00	15	Mar'18	Outlay kept for civil works, supply, erection (start).		Mar-17
60	SUB STATION WORKS ASSOCIATED WITH HYDERABAD (MAHESHWARAM) POOLING STATION	550.06	100	Mar'18	7		MAR'17
61	SYSTEM STRENGTHENING -XXIII OF SR GRID	203.28	140	Jul'17	Outlay kept for civil works, supply, erection (start).		Mar-17
62	TRANSMISSION SYSTEM FOR CONNECTIVITY OF ESSAR POWER GUJARAT LIMITED	622.97	10	Mar'16	Project completed in Apr-16. Outlays for spares (finish) & final payments (progressive).		Mar-17
63	CREATION OF 400/220KV S/STN. IN NCT OF DELHI DURING 12TH PLAN PERIOD (PART-A)	1394.52	30	May'17	30		Mar-17
64	CREATION OF 400/220KV S/STN. IN NCT OF DELHI DURING 12TH PLAN PERIOD (PART-B1)	780.33	25	Jul'17	Outlay kept for civil works, supply, erection (start).		Mar-17
65	TRANS SYSTEM ASS WITH RAPP 7&8 PART-B	307.00	25	Nov'17	37		MAR'17
66	PROVISION OF STATCOM IN NR	176.00	10		Outlay kept for advance against award & initial preparatory works (start).		Mar-17
67	GREEN ENERGY CORRIDORS-ISTS-PART-A	1479.30	260	Apr'17	264		MAR'17
68	NORTHERN REGION SYSTEM STRENGTHENING SCHEME - XIX	477.41	10	Feb'12	Project completed in Jun-16. Outlays for spares (finish) & final payments (progressive).		Mar-17
69	NORTHERN REGION SYSTEM STRENGTHENING SCHEME - XVIII	509.66	20	Nov'11*	205	1	Dec-16
70	NORTHERN REGION SYSTEM STRENGTHENING SCHEME - XXVIII	524.40	55	May'15*	Outlay kept for civil works, supply, erection and spares (finish) & final payments (progressive).		Jun-16
71	NORTHERN REGION SYSTEM STRENGTHENING SCHEME -XXX	539.82	114	Jun'16*	656		MAR'17
71	NORTHERN REGION SYSTEM STRENGTHENING SCHEME XXI	1677.57	1	Apr'13	Project completed in Jun-16. Outlays for spares (finish) & final payments (progressive).		MAR'17
72	NORTHERN REGION TRANSMISSION STRENGTHENING SCHEME	965.58	5	Nov'12	Project completed in May-16. Outlays for spares (finish) & final payments (progressive).		Mar-17
73	TRANSMISSION SYSTEM ASSOCIATED WITH RAPP 7 & 8 - PART-A.	100.40	35	Mar'15*	90		Mar-17
74	TRANSMISSION SYSTEM ASSOCIATED WITH TEHRI PUMP STORAGE PLANT (PSP) & MEJA TPS	927.62	185	Oct'17 (Tehri PSP) Jul'15 (Meja TPS)	10		MAR'17
75	TRANSMISSION SYSTEM FOR PHASE-I GENERATION PROJECTS IN JHARKHAND AND WEST BENGAL - PART - B.	3201.44	273	Oct'14*	136	2	JUL'16
76	PHASE-I GENERATION PROJECTS IN JHARKHAND & WEST BENGAL (PART A1)	611.06	50	Nov'13*	134		JUL'16

S.No	Name of the Projects/Scheme/Programme	Estimated Cost (Rs. Cr.)	Expenditure planned during 2016-17 (Rs in Crore)	Scheduled Date commissioning (Approved)	Milestones along with date		
					Stringing (CKM)	Transformer Erection (No.)	
77	NRSS-XXVI	689.34	5	Mar'15	Project completed in May-15. Outlays for spares (finish) & final payments (progressive).		MAR'17
78	TRANSMISSION SYSTEM ASSOCIATED WITH KAKRAPAR APP - 3&4	368.00	105	Ocl'16	308		Dec-16
79	GREEN ENERGY CORRIDORS- INTER STATE TRANSMISSION SCHEME (ISTS) - PART - B	3705.61	765	Apr'18	30		MAR'17
80	INTER-REGIONAL SYSTEM STRENGTHENING SCHEME IN WR AND NR	6517.36	2245	Apr'18	205		MAR'17
81	COMMON SYSTEM ASSOCIATED WITH COSTAL ENERGEN PRIVATE LTD AND IND-BARATH POWER LTD. (LTOA) GEN. PROJ. IN TUTICORIN AREA PART - B	1940.13	260	Sep'14*	564		Dec-16
82	SUB STATION EXTN. WORKS ASSOCIATED WITH TRANS. SYSTEM REQUIRED FOR EVACUATION OF POWER FROM KUDGI TPS (3X800 MW -PH-I) OF NTPC	167.40	70	Dec'15*	Outlay kept for civil works, supply, erection and spares (finish) & final payments (progressive).		MAR'17
83	COMMON TRANSMISSION SCHEME ASSOCIATED WITH ISGS PROJECTS IN AGAPATTINUM/ CUDDALORE AREA OF TAMIL NADU - PART-A1 (B)	74.29	30	May'17	Outlay kept for civil works, supply (finish) & erection (progressive).		MAR'17
84	SYSTEM STRENGTHENING - XII OF SR	232.34	20	Jun'12*	Outlays kept for compensation purpose for balance 2 kms stringing & final payments (progressive).		MAR'17
85	SYSTEM STRENGTHENING IN SR - XIV	346.79	20	Jun'15*	Outlays kept for compensation purpose for balance civil works, supply and erection (finish) and spare supply & final payments (progressive).		MAR'17
87	TRANS SYSTEM FOR KUDANKULAM APP - 1&2	2187.32	85	Dec'16	Outlay kept for civil works, supply & erection (progressive).		MAR'17
89	SUB STATION EXTN. WORKS ASSOCIATED WITH EASTERN REGION STRENGTHENING SCHEME -VII	76.84	65	Mar'17	Outlay kept for civil works, supply & erection (finish).		MAR'17
90	SUB STATION EXTN. WORKS ASSOCIATED WITH EASTERN REGION STRENGTHENING SCHEME -VI	11.97	20	Mar'17	Outlay kept for civil works, supply & erection (finish).		MAR'17
91	SUB STATION EXTN. FOR TRANSMISSION SYSTEM ASSOCIATED WITH VINDHYACHAL - V PROJECT OF NTPC (PART-A)	67.00	65	Jul'17	Outlay kept for civil works, supply & erection (progressive).		Mar-17
92	GREEN ENERGY CORRIDORS: TRANSMISSION SCHEME FOR RENEWABLE GENERATION PROJECTS- PART C	2247.00	280	Jul'18	Outlay kept for civil works, supply & erection (progressive).		Mar-17
93	SUB-STATION WORKS ASSOCIATED WITH SYSTEM STRENGTHENING IN SR FOR IMPORT OF POWER FROM ER	972.42	1125	Nov'17	Outlay kept for civil works, supply & erection (progressive).		Mar-17
94	TRANSMISSION SYSTEM FOR TRANSFER OF POWER FROM GENERATION PROJECT IN SIKKIM TO NRWR PART - B.	1682.03	50	Nov'13	Project completed in Mar-16. Outlays for spares (finish) & final payments (progressive).		Mar-17
B. NEW SCHEMES							
1	NABINAGAR - II	790.13	135	Jun'19	Outlay kept for civil works, supply and erection (start).		MAR'17
2	SUBSTATION AT UT CHANDIGARH	402.97	10		Outlay kept for civil works and supply (start).		MAR'17
3	GREEN ENERGY CORRIDORS-ISTS-PART-D	3519.59	250	May'19	Outlay kept for civil works, supply and erection (start).		MAR'17
4	NORTHERN REGIONAL SYSTEM STRENGTHENING SCHEME - XXXIX	50.00	5		Outlay kept for civil works (start).		MAR'17
5	TR. SYS STREN., TRAN. OF POWER FROM MANGDECHU HEP IN BHUTAN	808.63	80	Jan'18	Outlay kept for civil works, supply (start).		MAR'17
6	ERSS-XIV	167.01	90	Nov'18	Outlay kept for civil works, supply (start).		MAR'17
7	ERSS-XV- AUG. OF EXS. BERHAMPORE	454.11	180	Apr'18	Outlay kept for civil works, supply (start).		MAR'17

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					Stringing (CKM)	Transformer Erection (No.)	
8	ERSS-XVII	305.00	45		Outlay kept for civil works and supply (start).		MAR'17
9	TRANSMISSION SYSTEM ASSOCIATED WITH GADARWARA STPS (2X800MW) OF NTPC LTD - PART B	46.57	15	Jan'18	Outlay kept for civil works, supply (start).		MAR'17
10	HVDC BIPOLE LINK BETWEEN WESTERN REGION AND SOUTHERN REGION	14733.37	2540	Nov'19	Outlay kept for Engineering activities, civil works, supply and erection (start) and for advance payments against award.		MAR'17
11	TRANSMISSION SYSTEM ASSOCIATED WITH DARLIPALLI TPS	187.00	70	Jun'18	Outlay kept for civil works, supply and erection (start).		MAR'17
12	ER STRENGTHENING-XI	766.21	145	Nov'18	Outlay kept for civil works, supply (start).		MAR'17
13	TRANSMISSION SYSTEM PH-II IN ODISHA (DPR-I)	844.64	25	Apr'19	Outlay kept for initial preparatory works like levelling etc (start).		MAR'17
14	ERSS-XVI	30.00	10		Outlay kept for initial preparatory works like levelling, civil works etc. (start).		MAR'17
15	TRANSMISSION SYSTEM PH-II IN ODISHA (DPR-II)	163.80	5		Outlay kept for initial preparatory works like levelling, civil works etc. (start).		MAR'17
16	SRSS - XXIV (KADAPA GIS & OTHERS)	1455.00	580	Jul'18	Outlay kept for civil works, supply and erection (start).		MAR'17
17	SYSTEM STRENGTHENING SR1 (XXI) INSTALLATION OF STATCOMS	592.00	190		Outlay kept for initial preparatory works like levelling, civil works and supply etc. (start).		MAR'17
18	TR. SYSTEM FOR ULTRA MEGA SOLAR PARK IN ANANTAPUR DIST., AP (PHASE-II)	99.00	65	Jul'18	Outlay kept for civil works, supply and erection (start).		MAR'17
19	TR. SYSTEM FOR ULTRA MEGA SOLAR PARK IN ANANTAPUR DIST., AP (PHASE-III)	40.91	20	Nov'17	Outlay kept for civil works, supply and erection (start).		MAR'17
20	BAYS FOR TS ASSOCIATED WITH DGEN POWER	45.75	20		Outlay kept for initial preparatory works like levelling, civil works etc. (start).		MAR'17
21	SYSTEM STRENGTHENING ASSOCIATED WITH MUNDRA UMPP-Part-A	244.00	75	Jul'18	Outlay kept for civil works, supply and erection (start).		MAR'17
22	SYSTEM STRENGTHENING FOR IPSS IN CHHATTISGARH & OTHER GENERATION PROJECTS IN WR	350.02	5		Outlay kept for initial preparatory works like levelling, civil works etc. (start).		MAR'17
23	TRANSMISSION SYSTEM FOR ULTRA MEGA SOLAR PARK (750MW) IN REWA DISTRICT, MP	305.04	100	Mar'17	Outlay kept for civil works, supply and erection (start).		MAR'17
24	NRSS-XXXVIII	150.00	15		Outlay kept for initial preparatory works like levelling, civil works etc. (start).		MAR'17
25	NRSS-XXXVI	50.00	5		Outlay kept for initial preparatory works like levelling, civil works etc. (start).		MAR'17
26	NRSS-XXXVII	359.44	35		Outlay kept for initial preparatory works like levelling, civil works etc. (start).		MAR'17
27	INTERCONNECTING LINE FROM NORTH KARANPURA STPP TO CHANDWA & GAYA	483.55	70		Outlay kept for initial preparatory works like levelling, civil works and supply etc. (start).		MAR'17
28	TR-201503-NLC-KARAIKAL 230KV D/C LINE	108.00	25		Outlay kept for initial preparatory works like levelling, civil works etc. (start).		MAR'17
29	XUDANKULAM 3&4	162.00	20	May'18	Outlay kept for civil works, supply and erection (start).		MAR'17
30	CAPEX towards estd of solar PV system		2				
	TBCB EQUITY		500				
Total			23000				

Some work/ elements of the projects is remaining and revised completion schedule shall be informed after approval of RCE/ RTE

(575)

Annexure for Parameter X(b)

MoU for the year 2016-17 between POWERGRID & POWERGRID Warora Transmission Limited (PWTL)
(A 100% wholly owned subsidiary of POWERGRID)

Elements:

765 kV D/C Gadawara STPS -Jabalpur PS, 114Kms
765kV D/C Gadawara STPS- Warora P.S. (New)Length:319 km,
LILO of both Ckts. Of Wardha-Parli at Warora (New) P.S,Length: 93 km
765/400 kV Warora (New) P.S. (2x1500 MVA)

PERFORMANCE EVALUATION PARAMETERS AND TARGETS
(MOU Assessment format for 'CPSEs under construction')

Evaluation criteria	Unit	Total Qty	Balance as on 31.03.2016	MoU Target	
				Excellent	V. Good
765kV D/C LILO of Seoni -Bina Tran Line at Gadawara					
a) Foundations	Nos.	43	29	29	26
b) Tower erection	Nos.	43	43	43	39
c) Stringing	km	15.5	15.5	15.5	14
765kV D/C LILO point of Seoni-Bina to Jabalpur T/L					
a) Foundations	Nos.	227	227	200	180
b) Tower erection	Nos.	227	227	150	135
c) Stringing	km	87.5	87.5	20	18
765kV D/C Gadawara- Warora Line					
a) Foundations	Nos.	826	826	371	334
b) Tower erection	Nos.	826	826	168	151
c) Stringing	km	311.7	311.7	9.5	9
LILO of both Ckts. of 400 kV Wardha-Parli at Warora					
a) Foundations	Nos.	246	246	100	90
b) Tower erection	Nos.	246	246	35	32
c) Stringing	km	92.2	92.2	0	0
Total	Nos.	1342	1328	700	630
	Nos.	1342	1342	396	356
	km	506.9	506.9	45	41
d) Ckm Commissioning	ckm	1014	1014	31	-
e) Commencement of substation civil works	Date	100%	100%	31/Aug/16	30/Sep/16
f) Commencement of civil works for control room	Date	100%	100%	31/Oct/16	30/Nov/16
g) Commencement of erection in substation	Date	100%	100%	28/Feb/17	31/Mar/17

MoU for the year 2016-17 between POWERGRID & POWERGRID ParliTransmission Limited (PPTL)
(A 100% wholly owned subsidiary of POWERGRID)

Elements: 1) 765 kV D/C Warora P.S. - Parli (New) 320Kms ,
 2) 765 D/c Parli(New) - Solapur Length:147km,
 3) 400 kV D/C (Quad) Parli (New)-Parli (PG) Length: 20km
 4) 765/400 kV Parli (New) Sub-station (with 2x1500 MVA)

PERFORMANCE EVALUATION PARAMETERS AND TARGETS
(MOU Assessment format for 'CPSEs under construction')

Evaluation criteria	Unit	Total Qty	Balance as on 31.03.2016	MoU Target	
				Excellent	V. Good
765kV D/C Warora-Parli Line					
a) Foundations	Nos.	916	916	305	275
b) Tower erection	Nos.	916	916	150	135
c) Stringing	km	347	347	12	11
765kV D/C Parli-Solapur line					
a) Foundations	Nos.	309	309	108	97
b) Tower erection	Nos.	309	309	68	62
c) Stringing	km	118	118	6	5
400kV D/C Parli-Parli Line					
a) Foundations	Nos.	52	52	10	9
b) Tower erection	Nos.	52	52	0	0
c) Stringing	km	18	18	0	0
Total	Nos.	1277	1277	423	381
	Nos.	1277	1277	219	197
	km	483	483	18	16
d) Commencement of substation civil works	month	100%	100%	Sep-16	Oct-16
c) Commencement of civil works for control room	month	100%	100%	Nov-16	Dec-16

MoU for the year 2016-17 between POWERGRID & POWERGRID Southern Interconnector Transmission System Limited (PSITSL), (A 100% wholly owned subsidiary of POWERGRID) (Revised In April, 2016)

- Elements: 1) 765kV D/C Vemagiri-Chilakaluripeta Transmission Line, Length: 290 Kms. Approx.
 2) 765kV D/C Chilakaluripeta-Cudappah Transmission Line, Length: 275 Kms. Approx.
 3) 400 kV (Quad Moose) D/C Cudappah-Madhugiri Transmission Line, Length: 240 Kms. Approx.
 4) 400 kV (Quad Moose) D/C Srikakulam-Garividi Transmission Line, Length : 143 kms Approx.
 5) 400 kV (Quad Moose) D/C Chilakaluraipeta-Narasaraopeta Transmission Line, Length : 42 kms Approx
 6) Establishment of 765/400kV Chilakaluripeta Substation
 7) Ext. of 400kV Satenapalli (Narasaraopeta) (AP) substation
 8) Extension of 400kV Garividi (AP) substation

PERFORMANCE EVALUATION PARAMETERS AND TARGETS
(MOU Assessment format for 'CPSEs under construction')

Evaluation criteria	Unit	Total Qty	Balance as on 31.03.2016	MoU Target	
				Excellent	V. Good
765kV D/C Vemagiri-Chilakaluripeta					
a) Foundations	Nos.	660	660	40	36
b) Tower erection	Nos.	660	660	10	9
c) Stringing	km	250	250	N.A	N.A
765kV D/C Chilakaluripeta-Cudappah Transmission Line					
a) Foundations	Nos.	760	760	40	36
b) Tower erection	Nos.	760	760	10	9
c) Stringing	km	303	303	N.A	N.A
400 kV (Quad Moose) D/C Cudappah-Madhugiri Line					
a) Foundations	Nos.	616	616	40	36
b) Tower erection	Nos.	616	616	10	9
c) Stringing	km	238	238	N.A	N.A
400 kV (Quad Moose) D/C Srikakulam-Garividi Line					
a) Foundations	Nos.	391	391	40	36
b) Tower erection	Nos.	391	391	10	9
c) Stringing	km	143	143	N.A	N.A
400 kV (Quad Moose) D/C Chilakaluraipeta-Narasaraopeta Line					
a) Foundations	Nos.	119	119	20	18
b) Tower erection	Nos.	119	119	0	N.A
c) Stringing	km	42	42	N.A	N.A
Total	Nos.	2546	2546	180	162
	Nos.	2546	2546	40	36
	km	976	976	NA	NA
c) Acquisition of Substation Land	Month	-	-	Dec.'16	Jan'17

MoU for the year 2016-17 between POWERGRID & POWERGRID Jabalpur Transmission Limited (PJTL)
 (A 100% wholly owned subsidiary of POWERGRID) (Revised in April, 2016)

Elements-765 kV D/C Vindhychal P.S - Jabalpur P.S. line (380 kms)

PERFORMANCE EVALUATION PARAMETERS AND TARGETS
 (MOU Assessment format for CPSEs under construction)

Activity	Unit	Total Qty	Balance as on 31.03.2016	MoU Target	
				Excellent	V Good
a) Foundations	nos.	1050	1050	210	189
b) Tower erection	nos.	1050	1050	50	45
c) Commencement of Stringing	Date	380	380	31st Mar-17	-

MoU for the year 2016-17 between POWERGRID & POWERGRID Kala Amb Transmission Limited (PKTL)
(A 100% wholly owned subsidiary of POWERGRID)

Elements:

- 1) 400/220 kV GIS at Kala amb with a) 7x105 MVA (1-ph) and
b) 40% series compensation on 400 kV Karcham Wangtoo – Kala Amb D/C line at Kala Amb end
- 2) LILO of both ckt of 400 kV D/c Karcham Wangtoo - Abdullapur Iline at Kala Amb ,Length: 2 km,

PERFORMANCE EVALUATION PARAMETERS AND TARGETS
(MOU Assessment format for 'CPSEs under construction')

Activity	Unit	Total Qty	Balance as on 31.3.16	MoU Target	
				Excellent	V Good
a) Commencement of Substation Foundations	Date	100%	100%	30/Apr/16	31/May/16
b) Commencement of foundation for Control room	Date	100%	100%	31/May/16	30/Jun/16
c) Commencement of supply of substation equipments	Date	100%	100%	30/Jun/16	31/July/16
d) Commencement of erection of substation equipments	Date	100%	100%	30/Sep/16	31/Oct/16
e) Tower foundations for associated line	nos.	6	6	5	4
f) Commencement of Tower Erection for associated line	Date	6	6	31/Dec/16	31/Jan/17

**MoU for the year 2016-17 between POWERGRID & POWERGRID Unchahar Transmission
Limited (PUTL)**

(A 100% wholly owned subsidiary of POWERGRID) (Revised in April, 2016)

Elements: 400 kV D/C Unchahar – Fatehpur line, Length -53km

**PERFORMANCE EVALUATION PARAMETERS AND TARGETS
(MOU Assessment format for CPSEs under construction)**

Activity	Unit	Total Qty	Balance as on 31.03.2016	MoU Target	
				Excellent	V Good
a) Foundations	nos.	145	6	6	5
b) Tower erection	nos.	145	16	16	14
c) Stringing	km	53.4	35	35	32
d) Ckm Commissioning	ckm	107	107	107	-

MoU for the year 2016-17 between POWERGRID & POWERGRID N MTransmission Limited (PNMTL)
(A 100% wholly owned subsidiary of POWERGRID) (Revised in April, 2016)

Elements: 1) 765 kV D/C Nagapattinam Pooling Station-Salem(203Kms)
2) 765 kV S/C Salem-Madhugiri (219Kms)

PERFORMANCE EVALUATION PARAMETERS AND TARGETS
(MOU Assessment format for 'CPSEs under construction')

Evaluation criteria	Unit	Total Qty	Balance as on 31.03.2016	MoU Target	
				Excellent	V. Good
765 kV D/C Nagapattinam –Salem					
a) Foundations	Nos.	543	24	24	22
b) Tower erection	Nos.	543	92	92	83
c) Stringing	km	203	118	118	106
765kV S/C Dharampuri- Madhugiri Line *					
a) Foundations	Nos.	575	265	265	239
b) Tower erection	Nos.	575	358	358	322
c) Stringing	km	219	194	194	175
Total	Nos.	1118	289	289	260
	Nos.	1118	450	450	405
	km	422	312	312	280.8