Format AS3: RRAS Provider Parameters by ERPC

FROM: **ERPC** TO: **NODAL AGENCY (NLDC, DELHI)**

Name of the RRAS Provider Generating Station: **FSTPP**
Name of the Owner Organization : **NTPC Ltd**

Validity of the information: From **16/12/2018 TO 15/01/2019**

Date: **14.12.2018**

S.No.	Title/Parameters	Values/Data
a)	Number of Generating Units	ST-I& II: 3*200+2*500 MW ST- III: 1*500 MW
b)	Total Installed Capacity (MW)	ST -I& II: 1600 ST- III: 500
c)	Maximum Possible Ex-Bus Injection (MW) (including overload , if any)	ST - I& II: 1496.5 ST- III: 471.3
d)	Technical Minimum (MW)	ST -I& II: 823.1 ST-III: 259.2
e)	Type of Fuel	Coal
f)	Region	Eastern Region-1
g)	Bid Area	E1
h)	Fixed Cost (paise/KWh up to one decimal place)	**ST -I & II: 83.5** **ST- III: 150.4**
i)	Variable Cost (paise/KWh up to one decimal place)	**ST -I & II: 242.3** **ST- III: 243.9**
j)	Ramp-Up Rate (MW/Min) for each unit	For 200 MW: 1 For 500 MW: 2.5
k)	Ramp-Down Rate (MW/Min) for each unit	-do-
l)	Start-Up time from Cold Start(in Min) and Warm Start (in Min) for each unit	ST-I&II: Cold: For 200 MW-300 ST-I&II: Cold: For 500 MW-390 (Ansaldo) ST-I&II: Warm: For 200 MW-180 ST-I&II: Warm: For 500 MW-270 (Ansaldo) ST- III: Cold: For 500 MW-330 (BHEL) ST- III: Warm: For 500 MW-210 (BHEL)
m)	Any other information	Nil

14/12/18

J.BANDYOPADHYAY
MEMBER SECRETARY, ERPC

No.: ERPC/Comml-II/AS-3

Format AS3: RRAS Provider Parameters by ERPC

FROM: **ERPC** To: **NODAL AGENCY (NLDC, DELHI)**

Name of the RRAS Provider Generating Station: **KAHALGAON STPP**
Name of the Owner Organization : **NTPC Ltd**

Validity of the information: From **16/12/2018 TO 15/01/2019**

Date: **14.12.2018**

S.No.	Title/Parameters	Values/Data
a)	Number of Generating Units	4*210MW+3*500MW
b)	Total Installed Capacity (MW)	2340
c)	Maximum Possible Ex-Bus Injection (MW) (including overload , if any)	2245 (803+1442)
d)	Technical Minimum (MW)	1199(421+778)
e)	Type of Fuel	Bituminous/ Sub-Bituminous coal
f)	Region	Eastern Region-1
g)	Bid Area	
h)	Fixed Cost (paise/KWh up to one decimal place)	**ST-I: 106.5** **ST-II: 109.8**
i)	Variable Cost (paise/KWh up to one decimal place)	**ST-I: 223.4** **ST-II: 213.5**
j)	Ramp-Up Rate (MW/Min) for each unit	ST-I/II: 1.5/2.5
k)	Ramp-Down Rate (MW/Min) for each unit	ST-I/II: 1.5/2.5
l)	Start-Up from Cold Start and Warm Start (in Min) for each unit	ST-I: 480/200 ST-II: 400/170
m)	Any other information	Nil

14/12/18

J.BANDYOPADHYAY
MEMBER SECRETARY, ERPC

No.: ERPC/Comml-II/AS-3

Format AS3: RRAS Provider Parameters by ERPC

FROM: **ERPC** TO: **NODAL AGENCY (NLDC, DELHI)**

Name of the RRAS Provider Generating Station: **NTPC Barh**
Name of the Owner Organization : **NTPC Ltd**

Validity of the information: From **16/12/2018 TO 15/01/2019**

Date: **14.12.2018**

S.No.	Title/Parameters	Values/Data
a)	Number of Generating Units	ST- II: 2*660 MW
b)	Total Installed Capacity (MW)	1320
c)	Maximum Possible Ex-Bus Injection (MW) (including overload , if any)	ST- II: 1244.1
d)	Technical Minimum (MW)	ST- II: 684
e)	Type of Fuel	Coal
f)	Region	ER-I
g)	Bid Area	ER-I & II, NER
h)	Fixed Cost (paise/KWh up to one decimal place)	**ST- II: 186.5**
i)	Variable Cost (paise/KWh up to one decimal place)	**ST- II: 201.7**
j)	Ramp-Up Rate (MW/Min) for each unit	3
k)	Ramp-Down Rate (MW/Min) for each unit	3
l)	Start-Up from Cold Start and Warm Start (in Min) for each unit	Cold: 400 Warm: 240
m)	Any other information	Nil

14/12/18
J.BANDYOPADHYAY
MEMBER SECRETARY, ERPC

No.: ERPC/Comml-II/AS-3

Format AS3: RRAS Provider Parameters by ERPC

FROM: **ERPC** TO: **NODAL AGENCY (NLDC, DELHI)**

Name of the RRAS Provider Generating Station: **TSTPP-I**
Name of the Owner Organization : **NTPC Ltd**

Validity of the information: From **16/12/2018 TO 15/01/2019**

Date: **14.12.2018**

S.No.	Title/Parameters	Values/Data
a)	Number of Generating Units	2*500 MW
b)	Total Installed Capacity (MW)	1000
c)	Maximum Possible Ex-Bus Injection (MW) (including overload , if any)	960
d)	Technical Minimum (MW)	518.4
e)	Type of Fuel	Coal (Start up with HFO/LDO)
f)	Region	ER
g)	Bid Area	
h)	Fixed Cost (paise/KWh up to one decimal place)	**96.4**
i)	Variable Cost (paise/KWh up to one decimal place)	**193.8**
j)	Ramp-Up Rate (MW/Min) for each unit	1.6
k)	Ramp-Down Rate (MW/Min) for each unit	1.6
l)	Start-Up from Cold Start and Warm Start (in Min) for each unit	Cold: 360 Warm: 180
m)	Any other information	Nil

14/12/18

J.BANDYOPADHYAY
MEMBER SECRETARY, ERPC

No.: ERPC/Comml-II/AS-3

Format AS3: RRAS Provider Parameters by ERPC

FROM: **ERPC** TO: **NODAL AGENCY (NLDC, DELHI)**

Name of the RRAS Provider Generating Station: **Nabinagar TPP**
Name of the Owner Organization : **BRBCL**

Validity of the information: From **16/12/2018 TO 15/01/2019**

Date: **14.12.2018**

S.No.	Title/Parameters	Values/Data
a)	Number of Generating Units	4*250 MW
b)	Total Installed Capacity (MW)	500
c)	Maximum Possible Ex-Bus Injection (MW) (including overload , if any)	460
d)	Technical Minimum (MW)	137.5
e)	Type of Fuel	Coal + LDO
f)	Region	ER
g)	Bid Area	
h)	Fixed Cost (paise/KWh up to one decimal place)	**242.6**
i)	Variable Cost (paise/KWh up to one decimal place)	**183.4**
j)	Ramp-Up Rate (MW/Min) for each unit	1.33
k)	Ramp-Down Rate (MW/Min) for each unit	1.33
l)	Start-Up from Cold Start and Warm Start (in Min) for each unit	Cold: 480 Warm: 300
m)	Any other information	Nil

14/12/18

J.BANDYOPADHYAY
MEMBER SECRETARY, ERPC

No.: ERPC/Comml-II/AS-3

Format AS3: RRAS Provider Parameters by ERPC

FROM: **ERPC** TO: **NODAL AGENCY (NLDC, DELHI)**

Name of the RRAS Provider Generating Station: **MTPS Stage -II**
Name of the Owner Organization : **KBUNL**

Validity of the information: From **16/12/2018 TO 15/01/2019**

Date: **14.12.2018**

S.No.	Title/Parameters	Values/Data
a)	Number of Generating Units	2*195 MW
b)	Total Installed Capacity (MW)	390
c)	Maximum Possible Ex-Bus Injection (MW) (including overload , if any)	372.64
d)	Technical Minimum (MW)	195.20
e)	Type of Fuel	Coal
f)	Region	ER-1
g)	Bid Area	-
h)	Fixed Cost (paise/KWh up to one decimal place)	**234.9**
i)	Variable Cost (paise/KWh up to one decimal place)	**256.0**
j)	Ramp-Up Rate (MW/Min) for each unit	1 MW/Min
k)	Ramp-Down Rate (MW/Min) for each unit	1 MW/Min
l)	Start-Up from Cold Start and Warm Start (in Min) for each unit	Cold: 380 Warm: 280
m)	Any other information	Nil

14/12/18

J.BANDYOPADHYAY
MEMBER SECRETARY, ERPC

No.: ERPC/Comml-II/AS-3