



Transforming lives
A Maharatna Company

Format ASI: Generator Details by RRAS Provider

From: NTPC Barh/NTPC Ltd

To: ERPC, Kolkata

Validity of the Information: From 16/12/2023 to 15/01/2024

Date: 07/12/2023

S. No	Title/Parameters	Values/Data
a)	Number of Generating Units	ST# I: 2*660 MW ST# II: 2*660 MW
b)	Total Installed Capacity (MW)	2640(1320 + 1320) MW
c)	Maximum Possible Ex-Bus injection (MW) (including overload, if any)	ST#I: 1237.5 MW ST# II: 1237.5MW
d)	Technical Minimum (MW)	ST#I: 680.63 MW ST# II: 680.63MW
e)	Type of Fuel	Coal –Bituminous/Sub Bituminous
f)	Region	Eastern Region
g)	Bid Area	
h)	Fixed Cost (paise/KWh up to one decimal place)	St-I: 241.7 Paise/Kwh St-II: 183.5 Paise/Kwh
i)	Variable Cost (paise/Kwh up to one decimal place)	St-I : 305.9 Paise/Kwh St-II: 311.3 Paise/Kwh
j)	Ramp-Up Rate (MW/Min) for each unit	St-I/II : 6.19 / 6.19 MW/Min
k)	Ramp-Down Rate (MW/Min)for each unit	St-I/II : 6.19 / 6.19 MW/Min
l)	Start-Up time from Cold Start(in Min) and Warm Start (in Min)for each unit	Cold: 2100 Mins Warm: 900 Mins
m)	Any other information	

AR Dash

Signed by: 7/12/23

Name: A R Dash

Designation: GM (OS)

ए. आर. दाश / A. R. DASH
महाप्रबंधक (प्र. से.) / General Manager (OS)
एनटीपीसी, पू. धे.-I (पु.) / NTPC, ER-IHQ.
पटना / PATNA

Format ASI: Generator Details by RRAS Provider

From: FSTPP/NTPC Ltd

To: ERPC, Kolkata

Validity of the Information: From 16/12/2023 to 15/01/2024

Date: 07/12/2023

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 MW ST# III: 500 MW
c)	Maximum Possible Ex-Bus injection (MW) (including overload, if any)	ST #I&II:1557.0 MW ST# III: 494.0 MW
d)	Technical Minimum (MW)	ST # I&II: 820.3 MW ST# III: 257.8 MW
e)	Type of Fuel	Coal –Bituminous/Sub-Bituminous
f)	Region	Eastern Region
g)	Bid Area	
h)	Fixed Cost (paise/KWh up to one decimal place)	ST#I& II : 76.8 Paise/KWh ST# III: 148.7 Paise/KWh
i)	Variable Cost (paise/Kwh up to one decimal place)	ST# I & II: 356.3 Paise/KWh ST# III: 313.1 Paise/KWh
j)	Ramp-Up Rate (MW/Min) for each unit	For 200 MW Stage I: 1.83MW/Unit/Min For 500 MW Stage II: 4.71MW/Unit/Min For 500 MW Stage III: 4.69 MW/Unit/Min For commercial stage I : 14.92 MW/ min
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 & III : Cold : 360 Minutes ST#I, II & III : Warm: 240 Minutes
m)	Any other information	840 Minutes in case of unit shutdown period is more than 5 days as boiler will be kept under preservation.

हस्ताक्षर (प्र. से.) / General Manager (OS)
एनटीपीसी, पटना-1 (पु०) / NTPC, ER-IHQ.
पटना / PATNA

Signed by: *AR Dash*
Name: A R Dash
Designation: GM (OS)
ए. आर. दाश / A. R. DASH
महाप्रबंधक (प्र. से.) / General Manager (OS)
एनटीपीसी, पटना-1 (पु०) / NTPC, ER-IHQ.
पटना / PATNA

Format ASI: Generator Details by RRAS Provider

From: KhSTPP/NTPC Ltd

To: ERPC, Kolkata

Validity of the Information: From 16/12/2023 to 15/01/2024

Date: 07/12/2023

S. No	Title/Parameters	Values/Data
a)	Number of Generating Units	4X210 MW + 3X500 MW
b)	Total Installed Capacity (MW)	ST# I: 840 MW ST# II: 1500 MW
c)	Maximum Possible Ex-Bus injection (MW) (including overload, if any)	2237MW (803+1434)MW
d)	Technical Minimum (MW)	1194 MW(421 +773)MW
e)	Type of Fuel	Coal-Bituminous/Sub Bituminous
f)	Region	Eastern Region
g)	Bid Area	
h)	Fixed Cost (paise/KWh up to one decimal place)	ST#I : 104.5 Paise/KWh ST# II: 92.3 Paise/KWh
i)	Variable Cost (paise/Kwh up to one decimal place)	ST# I : 304.1 Paise/KWh ST# II: 298.8 Paise/KWh
j)	Ramp-Up Rate (MW/Min) for each unit	Stage I- 28.7 MW/15 min Block/Unit Stage II- 70.3MW/15min Block/Unit
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	Stage I- 360/240 Min Stage II- 360/240 Min
m)	Any other information	840 Minutes in case of unit shutdown period is more than 5 days as boiler will be kept under preservation

AR Dash

Signed by:

Name: A R Dash

Designation: GM (OS)

ए. आर. दाश / A. R. DASH
महाप्रबंधक (प्र. से.) / General Manager (OS)
एनटीपीसी, यू.से.-I (मु०) / NTPC, ER-I HQ.
पटना / PATNA

ए. आर. दाश / A. R. DASH
महाप्रबंधक (प्र. से.) / General Manager (OS)
एनटीपीसी, यू.से.-I (मु०) / NTPC, ER-I HQ.
पटना / PATNA



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A Maharatna Company

Format ASI: Generator Details by RRAS Provider

From: TSTPP-I /NTPC Ltd

To: ERPC, Kolkata

Validity of the Information: From 16/12/2023 to 15/01/2024

Date: 07/12/2023

S. No	Title/Parameters	Values/Data
a)	Number of Generating Units	2*500 MW
b)	Total Installed Capacity (MW)	1000MW
c)	Maximum Possible Ex-Bus injection (MW) (including overload, if any)	945 MW
d)	Technical Minimum (MW)	511.23 MW
e)	Type of Fuel	Coal Bituminous/Sub Bituminous (Start-Up with HFO/LDO)
f)	Region	Eastern Region
g)	Bid Area	
h)	Fixed Cost (paise/KWh up to one decimal place)	95.6 Paise/Kwh
i)	Variable Cost (paise/Kwh up to one decimal place)	157.4 Paise/Kwh
j)	Ramp-Up Rate (MW/Min) for each unit	4.65 MW/Min
k)	Ramp-Down Rate (MW/Min)for each unit	4.65 MW/Min
l)	Start-Up time from Cold Start(in Min) and Warm Start (in Min)for each unit	Cold: 360 Mins Warm: 240 Mins 840 Mins if recalled after more than 5 days
m)	Any other information	-

Signed by:

Name: A R Dash

Designation: GM (OS)

ए. आर. दाश / A. R. DASH
महाप्रबंधक (प्र. से.) / General Manager (OS)
एनटीपीसी, यू.डी.-I (पु.) / NTPC, ER-IHQ.
पटना / PATNA



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A Maharatna Company

Format ASI: Generator Details by RRAS Provider

From: Darlipali STPP/NTPC Ltd

To: ERPC, Kolkata

Validity of the Information: From 16/12/2023 to 15/01/2024

Date: 07/12/2023

S. No	Title/Parameters	Values/Data
a)	Number of Generating Units	2x800MW
b)	Total Installed Capacity (MW)	1600 MW
c)	Maximum Possible Ex-Bus injection (MW) (including overload, if any)	1575MW
d)	Technical Minimum (MW)	825
e)	Type of Fuel	Primary :Coal Bituminous/ Sub Bituminous, Secondary: LDO
f)	Region	Eastern Region
g)	Bid Area	
h)	Fixed Cost (paise/KWh up to one decimal place)	165.7
i)	Variable Cost (paise/Kwh up to one decimal place)	112.0
j)	Ramp-Up Rate (MW/Min) for each unit	7.5 MW/Min
k)	Ramp-Down Rate (MW/Min)for each unit	7.5 MW/Min
l)	Start-Up time from Cold Start(in Min) and Warm Start (in Min)for each unit	Cold: 2220 Min Warm: 1500 Min
m)	Any other information	Nil

Signed by:

Name: A R Dash

Designation: GM (OS)

ए. आर. दाश / A. R. DASH
महाप्रबंधक (प्र. से.) / General Manager (OS)
एनटीपीसी, यू.के.-I (पू.) / NTPC, ER-I HQ.
पटना / PATNA

ए. आर. दाश / A. R. DASH
(201) महाप्रबंधक (प्र. से.) / General Manager (OS)
एनटीपीसी, यू.के.-I (पू.) / NTPC, ER-I HQ.
पटना / PATNA

Format ASI: Generator Details by RRAS Provider

From: MTPS II STPP/NTPC Ltd

To: ERPC, Kolkata

Validity of the Information: From 16/12/2023 to 15/01/2024

Date: 07/12/2023

S. No	Title/Parameters	Values/Data
a)	Number of Generating Units	2x195MW
b)	Total Installed Capacity (MW)	390 MW
c)	Maximum Possible Ex-Bus injection (MW) (including overload, if any)	372.645 MW
d)	Technical Minimum (MW)	195.195
e)	Type of Fuel	Primary :Coal Bituminous/ Sub Bituminous, Secondary: LDO
f)	Region	Eastern Region
g)	Bid Area	
h)	Fixed Cost (paise/KWh up to one decimal place)	253.7
i)	Variable Cost (paise/Kwh up to one decimal place)	275.1
j)	Ramp-Up Rate (MW/Min) for each unit	1.77 MW/Min
k)	Ramp-Down Rate (MW/Min)for each unit	1.77 MW/Min
l)	Start-Up time from Cold Start(in Min) and Warm Start (in Min)for each unit	Cold: 360 Min Warm: 240 Min 840 Minutes in case of unit shutdown period is more than 5 days
m)	Any other information	Nil

A R Dash

Signed by: 711423

Name: A R Dash

Designation: GM (OS)

ए. आर. दाश / A. R. DASH
महाप्रबंधक (प्र. से.) / General Manager (OS)
एनटीपीसी, यू.के.-I (मु०) / NTPC, ER-IHQ.
पटना / PATNA

ए. आर. दाश / A. R. DASH
महाप्रबंधक (प्र. से.) / General Manager (OS)
एनटीपीसी, यू.के.-I (मु०) / NTPC, ER-IHQ.
पटना / PATNA

Format ASI: Generator Details by RRAS Provider

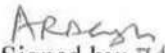
From: NPGC/NTPC Ltd

To: ERPC, Kolkata

Validity of the Information: From 16/12/2023 to 15/01/2024

Date: 07/12/2023

S. No	Title/Parameters	Values/Data
a)	Number of Generating Units	3x660MW
b)	Total Installed Capacity (MW)	1980 MW
c)	Maximum Possible Ex-Bus injection (MW) (including overload, if any)	1856.25 MW
d)	Technical Minimum (MW)	1020.94
e)	Type of Fuel	Primary :Coal Bituminous/ Sub Bituminous, Secondary: LDO
f)	Region	Eastern Region
g)	Bid Area	
h)	Fixed Cost (paise/KWh up to one decimal place)	216.8
i)	Variable Cost (paise/Kwh up to one decimal place)	273.2
j)	Ramp-Up Rate (MW/Min) for each unit	6.19 MW/Min
k)	Ramp-Down Rate (MW/Min)for each unit	6.19 MW/Min
l)	Start-Up time from Cold Start(in Min) and Warm Start (in Min)for each unit	Cold: 2100 Min Warm: 900 Min
m)	Any other information	Nil


 Signed by: 711473

Name: A R Dash

Designation: GM (OS)

ए. आर. दाश / A. R. DASH
 महाप्रबंधक (प्र. से.) / General Manager (OS)
 एनटीपीसी, यू.डी.-I (मु०) / NTPC, ER-IHQ.
 पटना / PATNA

NTPC, ER-IHQ.
 महाप्रबंधक (प्र. से.) / General Manager (OS)
 एनटीपीसी, यू.डी.-I (मु०) / NTPC, ER-IHQ.
 पटना / PATNA

Format ASI: Generator Details by RRAS Provider

From: NKSTPP/NTPC Ltd

To: ERPC, Kolkata

Validity of the Information: From 16/12/2023 to 15/01/2024

Date: 07/12/2023

S. No	Title/Parameters	Values/Data
a)	Number of Generating Units	1x660MW
b)	Total Installed Capacity (MW)	660 MW
c)	Maximum Possible Ex-Bus injection (MW) (including overload, if any)	646.22 MW
d)	Technical Minimum (MW)	363
e)	Type of Fuel	Primary: Coal Bituminous/ Sub Bituminous, Secondary: LDO
f)	Region	Eastern Region
g)	Bid Area	
h)	Fixed Cost (paise/KWh up to one decimal place)	240.5
i)	Variable Cost (paise/Kwh up to one decimal place)	150.4
j)	Ramp-Up Rate (MW/Min) for each unit	6.15 MW/Min
k)	Ramp-Down Rate (MW/Min)for each unit	6.15 MW/Min
l)	Start-Up time from Cold Start(in Min) and Warm Start (in Min)for each unit	Cold: 2880 Min Warm: 2160 Min
m)	Any other information	Nil

Arash
Signed by: २१/१२/२३

Name: A R Dash

Designation: GM (OS)

ए. आर. दाश / A. R. DASH
महाप्रबंधक (प्र. से.) / General Manager (OS)
एनटीपीसी, यू.के.-I (मु०) / NTPC, ER-I HQ.
पटना / PATNA

Format AS1: Generator Details by RRAS Provider

From: (Nabi Nagar Thermal Power Project)/ (Bhartiya Rail Bijlee Company Ltd.)

To: ERPC

Validity of the Information **from:** 16/12/2023 **To:** 15/01/2024

Date: 09/12/2023

S No.	Title/Parameters	Values/Data
a)	Number of Generating Units	4X250 MW
b)	Total Installed Capacity (MW)	4X250 MW
c)	Maximum possible Ex-bus injection (MW) (including overload if any)	910 MW
d)	Technical Minimum (MW) (per Unit)	137.5 MW (55% of Nameplate MCR, 9% APC)
e)	Type of Fuel	Coal + LDO
f)	Region	ER
g)	Bid area	E1
h)	Fixed Cost (paise / kWh up to one decimal place)	232.6
i)	Variable Cost (paise / kWh up to one decimal place)	319.5
j)	Ramp-Up Rate (MW/15 min) for each unit	34.125
k)	Ramp-Down Rate (MW/15 Min) for each unit	34.125
l)	Start-up Time from Cold Start (in Min) & Warm Start of each unit	Cold Start: 480 min Warm Start: 300 min
m)	Any other information	

- Startup Time from Reserve Shut Down (in case Unit Shut Down Period is more than 5 days as Boiler will be kept under preservation)

840 minutes

Copy to: ERLDC

अविनाश शुक्ला / AVINASH SHUKLA
वरिष्ठ प्रबंधक (ई०ई०एम०जी०)
Sr. Manager (EEMG)
बी.आर.बी.सी.एल. / BRBCL
बिहार बिजली निगम लि. / Bihar Electricity Board
औरंगाबाद, बिहार / Aurangabad, Bihar

Signature of Authorized Signatory (with Stamp) Name: *Avinash Shukla*

Designation: *Sr. Manager*

Format AS1: Generator Details by TRAS/SRAS/SCED Provider**From:** Maithon Power Limited**To:** ERPC

Validity of the Information

From: 16-12-2023 To: 15-01-2024

Date: 05-12-2023

S.No.	Title/Parameters	Values/Data
a)	Number of Generating Units (e.g. 1 x 210 MW + 2 x 500 MW)	2 x 525 MW
b)	Total Installed Capacity (MW)	1050 MW
c)	Maximum possible Ex-bus injection (MW) (including overload if any)	984.38
d)	Technical Minimum (MW)	541.41
e)	Type of Fuel	Bituminous/Sub-Bituminous coal (Start up with LDO and HFO)
f)	Region	Eastern
g)	Bid area	E1
h)	Fixed Cost (paise / kWh upto one decimal place)	137.0
i)	Variable Cost (paise / kWh upto one decimal place)	303.8
j)	Ramp-Up Rate (MW/Min) for each unit	4.92
k)	Ramp-Down Rate (MW/Min) for each unit	4.92
l)	Start-up Time from Cold Start (in Min) & Warm Start of each unit	Cold 720 Warm 300
m)	Any other information	840 min for RSD in case of unit shutdown period is more than 5 days as boiler will be kept under preservation.

Copy to:

Signature of Authorized Signatory (with Stamp)



Name: Sudip Dash

Designation: Head - Commercial & Regulation, MPL

Format ASI:Generator Details by RRAS Provider

From: (Name of RRAS Provider Generating Station)/ (Name of Owner Organization)
TEESTA-V POWER STATION (NHPC LTD.)

To: ERPC

Validity of the Information

From: 16/12/2023 **To:** 15/01/2024

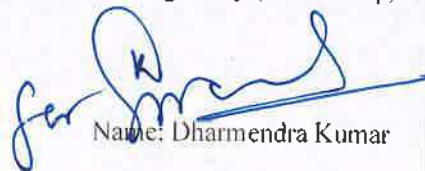
Date: 12/12/2023

S. No.	Title/Parameters	Values/Data
a)	Number of Generating Units (e.g. 1 x 210MW+ 2 x 500MW)	3X170 MW
b)	Total Installed Capacity (MW)	510 MW
c)	Maximum possible Ex-bus injection (MW) (including over load if any)	529*
d)	Technical Minimum (MW)	N.A.
e)	Type of Fuel	WATER
f)	Region	EASTERN REGION
g)	Bid area	E1
h)	Fixed Cost	116.3 Paise/KWH
i)	Variable Cost	116.3 Paise/KWH
j)	Ramp-Up Rate (MW/Min)for each unit	45 MW/Min
k)	Ramp-Down Rate (MW/Min) for each unit	45 MW/Min
l)	Start-up Time from Cold Start (in Min) & Warm Start of each unit	15 min approx
m)	Any other information	

*As per water availability

Copy to: ERLDC

Signature of Authorized Signatory (with Stamp)



Name: Dharmendra Kumar

Designation: DGM (E)

Format AS1: Generator Details by RRAS Provider

From: (Name of RRAS Provider Generating Station)/ (Name of Owner Organization)
RANGIT POWER STATION (NHPC LTD.)

To: ERPC

Validity of the Information

From: 16/12/2023 **To:** 15/01/2024

Date: 12/12/2023

From:	Title/Parameters	Values/Data
a)	Number of Generating Units (e.g. 1 x 210MW+ 2 x 500MW)	3X20 MW
b)	Total Installed Capacity (MW)	60 MW
c)	Maximum possible Ex-bus injection (MW) (including over load if any)	62*
d)	Technical Minimum (MW)	N.A.
e)	Type of Fuel	WATER
f)	Region	EASTERN REGION
g)	Bid area	E1
h)	Fixed Cost	201.25 Paise/KWH
i)	Variable Cost	201.25 Paise/KWH
j)	Ramp-Up Rate (MW/Min) for each unit	15 MW/min
k)	Ramp-Down Rate (MW/Min) for each unit	15 MW/min
l)	Start-up Time from Cold Start (in Min) & Warm Start of each unit	15 min approx
m)	Any other information	

*As per water availability.

Copy to: ERLDC

Signature of Authorized Signatory (with Stamp)


Name: Dharmendra Kumar

Designation: DGM (E)