



**COAL GASIFICATION PLANT FOR GENERATING
SYNTHETIC NATURAL GAS (SNG) AT BARDHAMAN,
WEST BENGAL (INDIA)**

COAL GAS INDIA LIMITED (CGIL)



Date: 02.01.2026

CORRIGENDUM-III

NIT NO., : PNMM/PC-217/E/001 DATED 10.10.2025

**SUB. : COAL GASIFICATION PLANT FOR GENERATING SYNTHETIC NATURAL GAS
(SNG) AT BARDHAMAN, WEST BENGAL (INDIA)**

This is for information to all Bidders who are willing to participate in the subject NIT, that CORRIGENDUM-III date 02.01.2026 is being issued and shall be read in conjunction to the NIT and subsequent Amendments issued till date.

*All other terms & conditions of NIT shall be as per original NIT and subsequent Amendment(s).

For & on behalf of
COAL GAS INDIA LIMITED (CGIL)

(Ms. Ritu Agarwal)
Dy. General Manager & HOD (M.M)
Ph.:-+ 91-9717104054
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COAL GASIFICATION PLANT FOR GENERATING SYNTHETIC NATURAL GAS (SNG) AT BARDHAMAN, WEST BENGAL (INDIA)

(NIT NO : PNMM/PC-217/E/001)

Corrigendum -III : Technical (Process) dated 02.01.2026



SL. NO.	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION																																																																																		
	Part/Sec.	Page No.	Clause No.	Description as per NIT																																																																																				
1.	SEC-4.0	8 of 17	2.4 (Feed stock for Coal Gasification Plant)	Feed stock for Coal Gasification Plant (available coal analysis is Annexure-I.)	A	Coal analysis Annexure-I to Sec 4.0 (Design Basis) of NIT, is being issued for Sonapur Bazari Coal covering the following : i. Proximate analysis of Coal Sample ii. Ultimate analysis of Coal Sample iii. Ash Fusion Temperature of Coal Sample iv. Ash Composition Annexure-I attached																																																																																		
2.	SEC-8.0	4 of 14	1.1.3 (<u>PERFORMANCE AND GUARANTEE TEST</u>)	Works cost (Consumption of Raw material & Utilities) Guarantee:	M	<table><tr><th rowspan="2">Sl. No</th><th rowspan="2">Raw Materials/ Utilities</th><th colspan="2">Consumption per day (Q) (ref. note-VIII below)</th><th rowspan="2">Cost per day (Q*R)INR for Case-1 (PDC)</th></tr><tr><th>Case-1: PDC</th><th>Case-2: EDC</th></tr><tr><td>1.</td><td>Washed Coal, MT</td><td></td><td></td><td>Q*4481.45</td></tr><tr><td>2.</td><td>Fluxant, MT</td><td></td><td></td><td>Q*500</td></tr><tr><td>3.</td><td>De-mineralised water, M³</td><td></td><td></td><td>Q* 53.69</td></tr><tr><td>4.</td><td>Condensate export (**)</td><td></td><td></td><td>Q*(-)/47.41</td></tr><tr><td>5.</td><td>Cooling Water for Coal Gasification Plant, M³</td><td></td><td></td><td>Q*35.75</td></tr><tr><td>6.</td><td>Make-up Water for Slag/Slag fines/Flyash Disposal System (if any)</td><td></td><td></td><td>Q*35.75</td></tr><tr><td>7.</td><td>Oxygen, NM3/hr</td><td></td><td></td><td>Q* 12</td></tr><tr><td>8.</td><td>LP Nitrogen, NM3/hr</td><td></td><td></td><td>Q*7</td></tr><tr><td>9.</td><td>HP Nitrogen, NM3/hr</td><td></td><td></td><td>Q*10</td></tr><tr><td>10.</td><td>Power, KWh</td><td></td><td></td><td>Q*6.08</td></tr><tr><td>11.</td><td>Net HP superheated Steam Import, MT</td><td></td><td></td><td>Q*1400</td></tr><tr><td>12.</td><td>Fuel gas SCM***</td><td></td><td></td><td>Q*25.80</td></tr><tr><td>13.</td><td></td><td colspan="3">Guaranteed Total Works Cost "A"/Day = $\sum (Q \times R)$ (Sl.No.1 to 12)</td></tr><tr><td>14.</td><td></td><td colspan="3">Production figures (per day): a. Syn. Gas (CO+H₂) "N" = Nm³</td></tr><tr><td></td><td></td><td colspan="3">Guaranteed Specific Work Cost/1000 Nm³ Syn. Gas(CO+H₂) ("S" = A/N x 1000) =</td></tr></table> (**) - Applicable for Gas purification unit only. (***) - Fuel gas is considered as Natural Gas. Cost of	Sl. No	Raw Materials/ Utilities	Consumption per day (Q) (ref. note-VIII below)		Cost per day (Q*R)INR for Case-1 (PDC)	Case-1: PDC	Case-2: EDC	1.	Washed Coal, MT			Q*4481.45	2.	Fluxant, MT			Q*500	3.	De-mineralised water, M ³			Q* 53.69	4.	Condensate export (**)			Q*(-)/47.41	5.	Cooling Water for Coal Gasification Plant, M ³			Q*35.75	6.	Make-up Water for Slag/Slag fines/Flyash Disposal System (if any)			Q*35.75	7.	Oxygen, NM3/hr			Q* 12	8.	LP Nitrogen, NM3/hr			Q*7	9.	HP Nitrogen, NM3/hr			Q*10	10.	Power, KWh			Q*6.08	11.	Net HP superheated Steam Import, MT			Q*1400	12.	Fuel gas SCM***			Q*25.80	13.		Guaranteed Total Works Cost "A"/Day = $\sum (Q \times R)$ (Sl.No.1 to 12)			14.		Production figures (per day): a. Syn. Gas (CO+H ₂) "N" = Nm ³					Guaranteed Specific Work Cost/1000 Nm ³ Syn. Gas(CO+H ₂) ("S" = A/N x 1000) =		
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BARDHAMAN, WEST BENGAL (INDIA)**

(NIT NO : PNMM/PC-217/E/001)

Corrigendum -III : Technical (Process) dated 02.01.2026



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						(**) - Applicable for Gas purification unit only. (***) - Fuel gas is considered as Natural Gas. Cost of NG is Rs. 650/mmBTU. (#) - Unit Rate of washed coal is excluding taxes & royalty.																																																																																							



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3.	4.0 (Design Baisis)	16 of 17	7.0	CLIMATIC DATA	A	Bidder to collect the below mentioned climatic data from concerned IMD office. To be read as The climatic data furnished below is for reference purpose only, bidder to collect the climatic data from concerned IMD office:																																	
4.	4.0 (Design Baisis)	16 of 17	7.1 (Wind)	CLIMATIC DATA	A	Based on the data collected from <u>01.01.2025 to 18.12.2025</u> following regarding wind speed at Sonepur Bazari is provided: <table><tr><th>SI No.</th><th>Description</th><th>CAAQMS-Wind Speed U (m/s)</th></tr><tr><td>1.</td><td>Maximum Value</td><td>0.6</td></tr><tr><td>2.</td><td>Maximum Value At Time</td><td>2025-04-01</td></tr><tr><td>3.</td><td>Minimum Value</td><td>0.3</td></tr><tr><td>4.</td><td>Minimum Value At Time</td><td>2025-09-01</td></tr><tr><td>5.</td><td>Geometric Mean</td><td>0.42</td></tr><tr><td>6.</td><td>Median</td><td>0.45</td></tr><tr><td>7.</td><td>Standard Deviation</td><td>0.11</td></tr><tr><td>8.</td><td>Valid Data Points</td><td>12</td></tr><tr><td>9.</td><td>Total Data Points</td><td>12</td></tr><tr><td>10.</td><td>Data Availability %</td><td>100</td></tr></table> Wind Load Design: as defined in IS: 875 Part 3	SI No.	Description	CAAQMS-Wind Speed U (m/s)	1.	Maximum Value	0.6	2.	Maximum Value At Time	2025-04-01	3.	Minimum Value	0.3	4.	Minimum Value At Time	2025-09-01	5.	Geometric Mean	0.42	6.	Median	0.45	7.	Standard Deviation	0.11	8.	Valid Data Points	12	9.	Total Data Points	12	10.	Data Availability %	100
SI No.	Description	CAAQMS-Wind Speed U (m/s)																																					
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5.	4.0 (Design Baisis)	17 of 17	7.2 (Air Temperatu re)	CLIMATIC DATA	A	Air Temperature Based on the data collected from <u>01.01.2025</u> to <u>18.12.2025</u> following regarding Ambient Temperature at Sonepur Bazari is provided: <u>Table: A</u> <table><tr><th>Parameters</th><th>Temperature, °C</th></tr><tr><td>Dry bulb (Summer)</td><td>39°C</td></tr><tr><td>Dry bulb (Winter)</td><td>13.7°C</td></tr><tr><td>Average Temperature</td><td>26.52°C (Geometric Mean)</td></tr></table> <u>Table:B</u> <table><tr><th>Sl. No.</th><th>Description</th><th>CAAQMS-Ambient Temperature_U(Deg. Celsius)</th></tr><tr><td>1.</td><td>Maximum Value</td><td>31</td></tr><tr><td>2.</td><td>Maximum Value At Time</td><td>2025-04-01</td></tr><tr><td>3.</td><td>Minimum Value</td><td>18.6</td></tr><tr><td>4.</td><td>Minimum Value At Time</td><td>2025-01-01</td></tr><tr><td>5.</td><td>Geometric Mean</td><td>26.8</td></tr><tr><td>6.</td><td>Median</td><td>28.65</td></tr><tr><td>7.</td><td>Standard Deviation</td><td>4.39</td></tr><tr><td>8.</td><td>Valid Data Points</td><td>12</td></tr><tr><td>9.</td><td>Total Data Points</td><td>12</td></tr><tr><td>10</td><td>Data Availability %</td><td>100</td></tr></table>	Parameters	Temperature, °C	Dry bulb (Summer)	39°C	Dry bulb (Winter)	13.7°C	Average Temperature	26.52°C (Geometric Mean)	Sl. No.	Description	CAAQMS-Ambient Temperature_U(Deg. Celsius)	1.	Maximum Value	31	2.	Maximum Value At Time	2025-04-01	3.	Minimum Value	18.6	4.	Minimum Value At Time	2025-01-01	5.	Geometric Mean	26.8	6.	Median	28.65	7.	Standard Deviation	4.39	8.	Valid Data Points	12	9.	Total Data Points	12	10	Data Availability %	100
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6.	4.0 (Design Baisis)	17 of 17	7.2.1 (Atmosph eric Air Composit ion)	CLIMATIC DATA		Atmospheric Air Composition Online pollution monitoring report from 01.02.2025 To Date: 07.11.2025 is attached as Annexure-AA for reference.																																	
7.	4.0 (Design Baisis)	17 of 17	7.3 (Relative Humidity)	CLIMATIC DATA	A	Relative Humidity Based on the data collected from <u>01.01.2025 to 18.12.2025</u> following regarding Relative Humidity at Sonepur Bazari is provided: <table border="1"><tr><th>Sl. No.</th><th>Description</th><th>CAAQMS-Relative humidity _U (%)</th></tr><tr><td>1.</td><td>Maximum Value</td><td>89.3</td></tr><tr><td>2.</td><td>Maximum Value At Time</td><td>2025-07-01</td></tr><tr><td>3.</td><td>Minimum Value</td><td>58.1</td></tr><tr><td>4.</td><td>Minimum Value At Time</td><td>2025-03-01</td></tr><tr><td>5.</td><td>Geometric Mean</td><td>77.04</td></tr><tr><td>6.</td><td>Median</td><td>78.05</td></tr><tr><td>7.</td><td>Standard Deviation</td><td>9.76</td></tr><tr><td>8.</td><td>Valid Data Points</td><td>12</td></tr><tr><td>9.</td><td>Total Data Points</td><td>12</td></tr><tr><td>10</td><td>Data Availability %</td><td>100</td></tr></table>	Sl. No.	Description	CAAQMS-Relative humidity _U (%)	1.	Maximum Value	89.3	2.	Maximum Value At Time	2025-07-01	3.	Minimum Value	58.1	4.	Minimum Value At Time	2025-03-01	5.	Geometric Mean	77.04	6.	Median	78.05	7.	Standard Deviation	9.76	8.	Valid Data Points	12	9.	Total Data Points	12	10	Data Availability %	100
Sl. No.	Description	CAAQMS-Relative humidity _U (%)																																					
1.	Maximum Value	89.3																																					
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10	Data Availability %	100																																					
8.	4.0 (Design Baisis)	17 of 17	7.4 (Rainfall)	CLIMATIC DATA	A	Rainfall: Based on the data collected from <u>01.01.2025 to 18.12.2025</u> following regarding Rainfall at Sonepur Bazari is provided:																																	



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						<table><tr><th>Sl. No.</th><th>Description</th><th>CAAQMS-Rain_fall_U(mm/hr))</th></tr><tr><td>11</td><td>Maximum Value</td><td>10.3</td></tr><tr><td>12</td><td>Maximum Value At Time</td><td>2025-10-01</td></tr><tr><td>13</td><td>Minimum Value</td><td>0.1</td></tr><tr><td>14</td><td>Minimum Value At Time</td><td>2025-05-01</td></tr><tr><td>15</td><td>Geometric Mean</td><td>1.59</td></tr><tr><td>16</td><td>Median</td><td>0.7</td></tr><tr><td>17</td><td>Standard Deviation</td><td>2.83</td></tr><tr><td>18</td><td>Valid Data Points</td><td>12</td></tr><tr><td>19</td><td>Total Data Points</td><td>12</td></tr><tr><td>20</td><td>Data Availability %</td><td>100</td></tr></table>	Sl. No.	Description	CAAQMS-Rain_fall_U(mm/hr))	11	Maximum Value	10.3	12	Maximum Value At Time	2025-10-01	13	Minimum Value	0.1	14	Minimum Value At Time	2025-05-01	15	Geometric Mean	1.59	16	Median	0.7	17	Standard Deviation	2.83	18	Valid Data Points	12	19	Total Data Points	12	20	Data Availability %	100
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11	Maximum Value	10.3																																					
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14	Minimum Value At Time	2025-05-01																																					
15	Geometric Mean	1.59																																					
16	Median	0.7																																					
17	Standard Deviation	2.83																																					
18	Valid Data Points	12																																					
19	Total Data Points	12																																					
20	Data Availability %	100																																					
9.	4.0 (Design Baisis)	17 of 17	7.5 (Barometri c Pressure)	CLIMATIC DATA	A	Ambient Pressure : Based on the data collected from <u>01.01.2025</u> to <u>18.12.2025</u> following regarding Ambient Pressure at Sonepur Bazari is provided: <table><tr><th>Sl. No.</th><th>Description</th><th>CAAQMS-Ambient Pressure_U(hPa) </th></tr><tr><td>1.</td><td>Maximum Value</td><td>1004.4</td></tr><tr><td>2.</td><td>Maximum Value At Time</td><td>2025-12-01</td></tr><tr><td>3.</td><td>Minimum Value</td><td>987.3</td></tr><tr><td>4.</td><td>Minimum Value At Time</td><td>2025-07-01</td></tr><tr><td>5.</td><td>Geometric Mean</td><td>996.28</td></tr><tr><td>6.</td><td>Median</td><td>997.6</td></tr><tr><td>7.</td><td>Standard Deviation</td><td>5.62</td></tr><tr><td>8.</td><td>Valid Data Points</td><td>12</td></tr><tr><td>9.</td><td>Total Data Points</td><td>12</td></tr><tr><td>10</td><td>Data Availability %</td><td>100</td></tr></table>	Sl. No.	Description	CAAQMS-Ambient Pressure_U(hPa)	1.	Maximum Value	1004.4	2.	Maximum Value At Time	2025-12-01	3.	Minimum Value	987.3	4.	Minimum Value At Time	2025-07-01	5.	Geometric Mean	996.28	6.	Median	997.6	7.	Standard Deviation	5.62	8.	Valid Data Points	12	9.	Total Data Points	12	10	Data Availability %	100
Sl. No.	Description	CAAQMS-Ambient Pressure_U(hPa)																																					
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**COAL GASIFICATION PLANT FOR GENERATING SYNTHETIC NATURAL GAS (SNG) AT
BARDHAMAN, WEST BENGAL (INDIA)
(NIT NO : PNMM/PC-217/E/001)
Corrigendum -III : Technical (Process) dated 02.01.2026**



LEGEND:

M: MODIFICATION, A: ADDITION, D: DELETION.

Encls.:

- **Annexure-I**
- **Annexure-AA**

Annexure-I

Table-1
Proximate Analysis of Coal Sample

<u>Sl. No.</u>	<u>PARTICULARS</u>	<u>Proximate Analysis of Coal (Air Dry Basis)</u>
1.	Moisture %	5.6-6.3
2.	Ash %	14.9-18.4
3.	VM %	29.7-31.8
4.	FC %	46.3-47.0
5.	GCV kcal/kg	6068-6250
6.	HGI	78-82

Table-2
Ultimate Analysis of Coal Sample

<u>Sl. No.</u>	<u>PARTICULARS</u>	<u>COAL</u>
1.	Carbon %	60.98-61.59
2.	Hydrogen %	4.81- 5.18
3.	Nitrogen %	1.65- 1.66
4.	Sulphur %	0.37-0.39

Table-3
Ash Fusion Temperature of Coal Sample

<u>Sl. No.</u>	<u>PARTICULARS</u>	<u>COAL</u>
1.	IDT(⁰ C)	>1400
2.	ST(⁰ C)	>1400
3.	HT(⁰ C)	>1400
4.	FT(⁰ C)	>1400

Abbreviations used: **IDT**: Initial deformation temperature, **ST**: sphere temperature **HT**: hemisphere temperature, **FT**: flow temperature

Table-4
Ash Composition

<u>Sl. No.</u>	<u>PARTICULARS</u>	<u>Ash Composition</u>
	Ash Composition:	
i.	SiO ₂	62.0-62.5
ii.	Al ₂ O ₃	22.4-23.1
iii.	Fe ₂ O ₃	4.6- 4.7
iv.	CaO	2.8 -3.0
v.	MgO	0.4 -0.5
vi.	Na ₂ O	0.1
vii.	K ₂ O	2.2 -2.3
viii.	TiO ₂	2.2 -2.7
ix.	Mn ₃ O ₄	0.1
x.	SO ₃	0.1
xi.	P ₂ O ₅	1.6 -1.7

Site Name: EASTERN COALFIELD LTD,SB MINES,Sonepur Bazari															
From Date: 2025/02/01 To Date: 2025/11/07															
Online Pollution Monitoring															
SI No.	Time	CAAQMS-SO2_U	CAAQMS-NOx_U	CAAQMS-NO_U	CAAQMS-NO2_U	CAAQMS-CO_U	CAAQMS-PM2.5_U	CAAQMS-PM10_U	CAAQMS-Wind_Speed_U (m/s)	CAAQMS-Wind_Direction_U (degree)	CAAQMS-Ambient Temperature (deg C)	CAAQMS-Relative humidity_U (%)	CAAQMS-Rainfall_U (mm/hr)	CAAQMS-Solar Radiation_U (W/m2)	CAAQMS-Ambient Pressure_U (hPa)
1	2025-02-01	17.1	78.7	52.4	26.5	0.9	100.5	226.4	0.4	108.4	22.5	64.8	1.3	104.1	1002.1
2	2025-03-01	16.5	35.1	31.7	3.5	0.9	86	260.8	0.5	136.1	27.2	58.1	0.4	133	998.9
3	2025-04-01	15.3	45.5	39.6	5.9	0.7	52.7	171.9	0.6	131.9	31	67.6	2.3	148.9	996.4
4	2025-05-01	15	42.3	37.7	4.7	0.5	45.1	91.5	0.5	119.8	30.7	75.7	0.1	163.7	992.1
5	2025-06-01	14.9	37.7	34.9	10.1	0.3	42.9	92.1	0.5	107.8	30.8	82.5	0.5	119.4	988.4
6	2025-07-01	14.6	55.2	37.7	17.5	0.1	31.1	60.3	0.5	95.2	29.3	89.3	0.2	103.7	987.3
7	2025-08-01	20.6	48	33.5	14.5	0.2	35.2	74.8	0.5	103.8	29.4	87.6	0.1	123.1	991.7
8	2025-09-01	15.1	76.5	43.2	33.5	0.5	43.6	96.7	0.3	72.1	30	86.2	0.1	124.2	993.8
9	2025-10-01	15.6	191.8	50.1	141.7	0.7	65.1	138.3	0.3	90.2	28	83.6	10.3	110.9	998.8
10	2025-11-01	15.5	230.9	48.1	182.8	0.8	141	195.8	0.3	122.7	25.2	84.4	1.1	101.3	997.5
12	Maximum Value	20.6	230.9	52.4	182.8	0.9	141	260.8	0.6	136.1	31	89.3	10.3	163.7	1002.1
13	Maximum Value At Time	2025-08-01	2025-11-01	2025-02-01	2025-11-01	2025-02-01	2025-11-01	2025-03-01	2025-04-01	2025-03-01	2025-04-01	2025-07-01	2025-10-01	2025-05-01	2025-02-01
14	Minimum Value	14.6	35.1	31.7	3.5	0.1	31.1	60.3	0.3	72.1	22.5	58.1	0.1	101.3	987.3
15	Minimum Value At Time	2025-07-01	2025-03-01	2025-03-01	2025-03-01	2025-07-01	2025-07-01	2025-07-01	2025-09-01	2025-09-01	2025-02-01	2025-03-01	2025-05-01	2025-11-01	2025-07-01
16	Geometric Mean	16.02	84.17	40.89	44.07	0.56	64.32	140.86	0.44	108.8	28.41	77.98	1.64	123.23	994.7
17	Median	15.4	51.6	38.65	16	0.6	48.9	117.5	0.5	108.1	29.35	83.05	0.45	121.25	995.1
18	Standard Deviation	1.78	69.25	7.24	63.76	0.29	34.97	69.37	0.11	19.71	2.77	10.87	3.12	20.52	4.84

[illegible]