



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

COAL GAS INDIA LIMITED (CGIL)



Date 30.04.2026

CORRIGENDUM-X

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-X date 30.04.2026 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
Email: rituagarwal@pdilin.com



**COAL GASIFICATION PLANT FOR GENERATING SYNTHETIC NATURAL GAS (SNG) AT
BARDHAMAN, WEST BENGAL (INDIA)
(NIT NO : PNMM/PC-217/E/001)
Corrigendum –X: Technical(Process) dated 30.04.2026**



SL. NO	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION		
	Part/Sec.	Page No.	Clause No.	Description as per NIT				
1.	P-II/4.0 (Design Basis)	12 of 17	3.12 (Critical Piping)	Gasification Unit	As per Licensor's specification	M	Gasification Unit	As per Licensor's specification
				Process Gas exit catalytic reactors	Material Superior to C - ½Mo		Process Gas exit catalytic reactors	Material Superior to C - ½Mo
				Wet CO ₂ gas rich CO ₂ loaded solution	SS 304		Wet CO ₂ gas rich CO ₂ loaded solution	SS 304
				DM water	SS 304		DM water	SS 304
				Process condensate	SS304/SS 304L		Process condensate	SS304/SS 304L
				Instrument air	SS 304		Instrument air	SS 304
				Lube oil and sea oil	SS 304		Lube oil and sea oil	SS 304
				Phosphate/ Hydrazine Antifoam Solution	SS 304		Phosphate/ Hydrazine Antifoam Solution	SS 304



**COAL GASIFICATION PLANT FOR GENERATING SYNTHETIC NATURAL GAS (SNG) AT
BARDHAMAN, WEST BENGAL (INDIA)
(NIT NO : PNMM/PC-217/E/001)
Corrigendum –X: Technical(Process) dated 30.04.2026**



SL. NO	REFERENCE OF BIDDING DOCUMENT					AMENDMENT TYPE M/D/A	MODIFICATION		
	Part/Sec.	Page No.	Clause No.	Description as per NIT					
				High pressure steam for temperature above 460°C	9Cr.-1Mo		High pressure steam for temperature above 460°C	9Cr.-1Mo- V	
				High pressure steam for temperature above 425°C	1.25Cr -0.5Mo		High pressure steam for temperature above 425°C	1.25Cr -0.5Mo	
				Medium & Low pressure steam temperature < 425°C	A106 Gr.BSmls		Medium & Low pressure steam temperature < 425°C	A106 Gr.BSmls	



**COAL GASIFICATION PLANT FOR GENERATING SYNTHETIC NATURAL GAS (SNG) AT
BARDHAMAN, WEST BENGAL (INDIA)
(NIT NO : PNMM/PC-217/E/001)
Corrigendum –X: Technical(Process) dated 30.04.2026**



SL. NO	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION																																										
	Part/Sec.	Page No.	Clause No.	Description as per NIT																																												
2.	P-II/4.0 (Design Basis)	6 of 17	2.3 (Quality Specification), 2.3.1	2.3.1 Product Purified Syn. Gas produced from the plant shall cater to the following minimum Specification: <table border="1"><thead><tr><th>Parameter</th><th>Unit</th><th>Value</th></tr></thead><tbody><tr><td>Hydrogen (H₂)</td><td>Vol %, min.</td><td>73-75</td></tr><tr><td>Carbon Mono-oxide(CO)</td><td>Vol %, min.</td><td>23-25</td></tr><tr><td>Carbon Di-Oxide(CO₂)</td><td>Vol %, min.</td><td><0.5</td></tr><tr><td>Nitrogen (N₂)</td><td>Vol %, min.</td><td><0.9</td></tr><tr><td>Argon (Ar)</td><td>PPM by Vol(Max)</td><td>0.5-0.75</td></tr><tr><td>Mercury (Hg)</td><td>PPM by Vol(max)</td><td>Nil</td></tr></tbody></table>	Parameter	Unit	Value	Hydrogen (H ₂)	Vol %, min.	73-75	Carbon Mono-oxide(CO)	Vol %, min.	23-25	Carbon Di-Oxide(CO ₂)	Vol %, min.	<0.5	Nitrogen (N ₂)	Vol %, min.	<0.9	Argon (Ar)	PPM by Vol(Max)	0.5-0.75	Mercury (Hg)	PPM by Vol(max)	Nil	M	2.3.1 Product Purified Syn. Gas produced from the plant shall cater to the following minimum Specification: <table border="1"><thead><tr><th>Parameter</th><th>Unit</th><th>Value</th></tr></thead><tbody><tr><td>Hydrogen (H₂)</td><td>Vol %, min.</td><td>73-75</td></tr><tr><td>Carbon Mono-oxide(CO)</td><td>Vol %, min.</td><td>23-25</td></tr><tr><td>Carbon Di-Oxide(CO₂)</td><td>Vol %, min.</td><td><0.5</td></tr><tr><td>Nitrogen (N₂)</td><td>Vol %, min.</td><td><0.9</td></tr><tr><td>Argon (Ar)</td><td>PPM by Vol(Max)</td><td>0.5-0.75</td></tr><tr><td>Mercury (Hg)</td><td>PPM by Vol(max)</td><td>Nil</td></tr></tbody></table>	Parameter	Unit	Value	Hydrogen (H ₂)	Vol %, min.	73-75	Carbon Mono-oxide(CO)	Vol %, min.	23-25	Carbon Di-Oxide(CO ₂)	Vol %, min.	<0.5	Nitrogen (N ₂)	Vol %, min.	<0.9	Argon (Ar)	PPM by Vol(Max)	0.5-0.75	Mercury (Hg)	PPM by Vol(max)	Nil
Parameter	Unit	Value																																														
Hydrogen (H ₂)	Vol %, min.	73-75																																														
Carbon Mono-oxide(CO)	Vol %, min.	23-25																																														
Carbon Di-Oxide(CO ₂)	Vol %, min.	<0.5																																														
Nitrogen (N ₂)	Vol %, min.	<0.9																																														
Argon (Ar)	PPM by Vol(Max)	0.5-0.75																																														
Mercury (Hg)	PPM by Vol(max)	Nil																																														
Parameter	Unit	Value																																														
Hydrogen (H ₂)	Vol %, min.	73-75																																														
Carbon Mono-oxide(CO)	Vol %, min.	23-25																																														
Carbon Di-Oxide(CO ₂)	Vol %, min.	<0.5																																														
Nitrogen (N ₂)	Vol %, min.	<0.9																																														
Argon (Ar)	PPM by Vol(Max)	0.5-0.75																																														
Mercury (Hg)	PPM by Vol(max)	Nil																																														



**COAL GASIFICATION PLANT FOR GENERATING SYNTHETIC NATURAL GAS (SNG) AT
BARDHAMAN, WEST BENGAL (INDIA)
(NIT NO : PNMM/PC-217/E/001)
Corrigendum –X: Technical(Process) dated 30.04.2026**



SL. NO	REFERENCE OF BIDDING DOCUMENT					AMENDMENT TYPE M/D/A	MODIFICATION		
	Part/Sec.	Page No.	Clause No.	Description as per NIT					
				Pressure	Kg/Cm ² g, Max	30	Pressure	Kg/Cm ² g, Max	30
				Temperature	°C, Max	45	Temperature	°C, Max	45
				Quantity	Nm ³ /MT of Feed Coal	(to be confirmed by LSTK-1 Contractor)	Quantity	Nm ³ /MT of Feed Coal	(to be confirmed by LSTK-1 Contractor)
							Maximum Sulphur	PPMV	0.1
							Maximum Chloride	PPMV	0.1

LEGEND:

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



COAL GASIFICATION PLANT AT BARDHAMAN, WEST BENGAL, (INDIA)
(NIT NO : PC217/E/001 DATED: 10.10.2025)
Corrigendum –X: Technical(MH) dated :30.04.2026



SL. NO.	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
1.	PART II: Technical Section-5.3.4	3 of 23	2.0 a first para	Coal and Fluxant/Limestone – Coal from mines shall be received at designated transfer tower within plant (battery limit & scope under LSTK contractor) through conveyor system or at surface truck/dumper unloading station/system (battery limit & scope under LSTK contractor) through truck/dumper. Fluxant/Limestone from mines shall be received at surface truck/dumper unloading station/system (battery limit & scope under LSTK contractor) through truck/dumper. Coal & fluxant/Limestone conveying/handling from mines upto designated transfer tower & surface unloading station/system (battery limit) within plant are excluded from scope of LSTK contractor. Scope of LSTK contractor shall start from & including the designated transfer tower & surface unloading station/system at battery limit within plant boundary.	A	Coal and Fluxant/Limestone – Coal from mines shall be received at designated transfer tower within plant (battery limit & scope under LSTK contractor) through conveyor system or at surface truck/dumper unloading station/system (battery limit & scope under LSTK contractor) through truck/dumper. Fluxant/Limestone from mines shall be received at surface truck/dumper unloading station/system (battery limit & scope under LSTK contractor) through truck/dumper. Bidder to design the surface unloading system for both type - tipping facility for normal truck as well as to handle self tipping dumper. Bidder to consider variable size truck/dumper of upto 30 MT payload capacity. Coal & fluxant/Limestone conveying/handling from mines upto designated transfer tower & surface unloading station/system (battery limit) within plant are excluded from scope of LSTK contractor. Scope of LSTK contractor shall start from & including the designated transfer tower & surface unloading station/system at battery limit within plant boundary.



COAL GASIFICATION PLANT AT BARDHAMAN, WEST BENGAL, (INDIA)
(NIT NO : PC217/E/001 DATED: 10.10.2025)
Corrigendum –X: Technical(MH) dated :30.04.2026



SL. NO.	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
2.	PART II: Technical Section-5.3.4	5 of 23	4.1 fifth para	One emergency reclaim hopper (ERH) shall be provided to reclaim coal/fluxant by dozers when stacker & reclaimers are not in operation. Emergency reclaim hopper shall also be used for coal/fluxant feeding by dozers / pay loader etc. Suitable conveyor system shall be provided to transfer material from emergency reclaim hopper to subsequent conveyors (those are coming from storage area) at nearest transfer tower.	M	Emergency reclaim hoppers (ERH) shall be provided to reclaim coal/fluxant by dozers when stacker & reclaimers are not in operation. Emergency reclaim hoppers shall also be used for coal/fluxant feeding by dozers / pay loader etc. Suitable conveyor system shall be provided to transfer material from emergency reclaim hopper to subsequent conveyors at nearest transfer tower. Bidder may consider BRU/surface feeder system (suitable to handle dozer/payloader) instead of underground emergency reclaim hopper (ERH) however; capacity of BRU/surface feeder shall be considered inline with the requirement of CMD section.
3.	PART II: Technical Section-5.3.4	5 of 23	5.1 sl. no. 31	Online Coal sampling system shall be considered	M	Online Coal sampling system i.e Scoop type coal sampler system shall be installed at suitable location above conveyor system to collect coal sample.

LEGEND:

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



**COAL GASIFICATION PLANT FOR GENERATING SYNTHETIC NATURAL GAS (SNG) AT
BARDHAMAN, WEST BENGAL (INDIA)
(NIT NO : PNMM/PC-217/E/001)
Corrigendum –X: Technical(Instrumentation) dated 30.04.2026**



SL. NO	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
1.	PC217/E/001/ P-I/5.2	Sheet 15 OF 115	4.0(point no.41)	All the instruments shall be SIL certified. · All Smart Positioners, SIL 2 · All Partial Stroke Testing (PST) shall be implemented by SIL3 mechanism. · All Transmitters - SIL2 · All Solenoids - SIL 3 · All Gas Detectors - SIL2 · All Relay - SIL 3 · All Barriers - SIL 3	M	All the instruments in the SIL loop shall be SIL certified as per SIL study.
1.	PC217/E/001/ P-I/5.2	Sheet 24 OF 115	7.0	Two separate AC distribution board (Dual ACDB) fed from redundant UPS are essential for Instrumentation power distribution system for the improved reliability.	M	AC distribution board (Dual ACDB) fed from redundant UPS are essential for Instrumentation power distribution system for the improved reliability.
2.	PC217/E/001/ P-I/5.2	Sheet 66 OF 115	21.0	Central Control room (CCR) shall be completely blast proof building. All doors of CCR shall also be blast proof. In front of all the doors	M	Central Control room (CCR) shall be completely blast proof building. All outer entry/exit doors of CCR shall also be blast proof. In front of all the doors blast proof walls shall also be provided.



**COAL GASIFICATION PLANT FOR GENERATING SYNTHETIC NATURAL GAS (SNG) AT
BARDHAMAN, WEST BENGAL (INDIA)
(NIT NO : PNMM/PC-217/E/001)
Corrigendum –X: Technical(Instrumentation) dated 30.04.2026**



SL. NO	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
				blast proof walls shall also be provided		
3.	PC217/E/001/ P-I/5.2	Sheet 87 OF 115	26.0	FIRE AND GAS DETECTION SYSTEM (FGS)	A	coal gasification unit FGS should have necessary hardware and software requirements to connect with Synthetic Natural Gas unit FGS for control and monitoring from main CCR. Coal gasification plant FGS should have OS and 70 “LVS in Central fire station
4.	PC217/E/001/ P-I/5.2	Sheet 104 OF 115	31.5	CENTRAL EXCHANGE	A	coal gasification unit Exchange should have necessary hardware and software requirements to connect with Synthetic Natural Gas Unit Central exchange
5.	PC217/E/001/ P-I/5.2	Sheet 107 OF 115	34.0	Instrument Workshop Instrument Workshop is in the LSTK bidder’ s scope. Bidder shall provide all the workshop equipment required for maintenance and calibration of the instruments.	M	Instrument Workshop Instrument Workshop is not in the LSTK bidder’ s scope. Bidder shall provide necessary list of all the workshop equipment required for maintenance and calibration of the instruments.

LEGEND:

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



**COAL GASIFICATION PLANT FOR GENERATING SYNTHETIC NATURAL GAS (SNG) AT
BARDHAMAN, WEST BENGAL (INDIA)
(NIT NO : PNMM/PC-217/E/001)
Corrigendum –X: Technical(Civil) dated 30.04.2026**



SL. NO	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
1.	Section 5.5 Design Philosophy Civil & Structural Work	156 of 319	17.2 Box culverts	“The box-culverts are to be provided across the roads These box-culverts shall be of either complete reinforced cement concrete construction or brick masonry and reinforced cement concrete construction as specified in the schedule of items. The box-culvert construction shall be carried out as per the approved drawing.”	M	Box-culverts shall be constructed in RCC .
2.	Section 5.5 Design Philosophy Civil & Structural Work	247 of 319	18.00.00 Storm water Drains	“The open storm water drains shall be of the size and laid to such gradients and in such locations as may be shown in the approved drawings or as directed by the Engineer-in-Charge...”	M	Storm water drains shall be constructed in RCC where the specifications do not provide clear guidance

LEGEND:

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



**COAL GASIFICATION PLANT FOR GENERATING SYNTHETIC NATURAL GAS (SNG) AT
BARDHAMAN, WEST BENGAL (INDIA)
(NIT NO : PNMM/PC-217/E/001)
Corrigendum –X: Technical (Projects) dated 30.04.2026**



SL. NO	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
1.	PNPM/PC-217/E/001/ P-II/Sec.- 6.0 DOCUME NT NO.	Sheet 6 OF 18	6.2	Detailed Technical Requirements along with the Detailed Scope of Work and overall proposed implementation schedule shall be prepared by CONTRACTOR. These will form the basis for formulation of the Overall PROJECT schedule of the plant by CONTRACTOR. CONTRACTOR is required to organize his services in a systematic manner to ensure execution and completion of the unit as per the schedule. CONTRACTOR is required to submit along with his bid the methodology/procedure proposed by him for this unit together with the organizational set up proposed and bio-data of Key-personnel. In order to achieve uniformity in execution of various activities of the PROJECT, CONTRACTOR shall develop Engineering Design Basis and PROJECT Procedures/ Methodologies to be adopted by the executing agency. CONTRACTOR is required to carry out his supply of Know-How, Process Package, Detailed Engineering, Procurement,	A	Detailed Technical Requirements along with the Detailed Scope of Work and overall proposed implementation schedule shall be prepared by CONTRACTOR. These will form the basis for formulation of the Overall PROJECT schedule of the plant by CONTRACTOR. CONTRACTOR is required to organize his services in a systematic manner to ensure execution and completion of the unit as per the schedule. CONTRACTOR is required to submit along with his bid the methodology/procedure proposed by him for this unit together with the organizational set up proposed and bio-data of Key-personnel. In order to achieve uniformity in execution of various activities of the PROJECT, CONTRACTOR shall develop Engineering Design Basis and PROJECT Procedures/ Methodologies to be adopted by the executing agency. CONTRACTOR is required to carryout his supply of Know-How, Process Package, Detailed Engineering, Procurement, Tendering, Construction Supervision and Management, Planning Scheduling, Monitoring, Reviewing, Reporting, and Overall PROJECT Management activities in accordance with the job specifications / procedures developed by CONTRACTOR based on the methodologies / procedures. All activities to be performed/services to be rendered by CONTRACTOR under this contract shall be monitored by OWNER/CONSULTANT and will be subject to weekly / monthly reviews by the OWNER /CONSULTANT. CONTRACTOR shall facilitate such



**COAL GASIFICATION PLANT FOR GENERATING SYNTHETIC NATURAL GAS (SNG) AT
BARDHAMAN, WEST BENGAL (INDIA)
(NIT NO : PNMM/PC-217/E/001)
Corrigendum –X: Technical (Projects) dated 30.04.2026**



SL. NO	REFERENCE OF BIDDING DOCUMENT				AMENDMENT TYPE M/D/A	MODIFICATION
	Part/Sec.	Page No.	Clause No.	Description as per NIT		
				Tendering, Construction Supervision and Management, Planning Scheduling, Monitoring, Reviewing, Reporting, and Overall PROJECT Management activities in accordance with the job specifications / procedures developed by CONTRACTOR based on the methodologies / procedures. All activities to be performed/services to be rendered by CONTRACTOR under this contract shall be monitored by OWNER/CONSULTANT and will be subject to weekly / monthly reviews by the OWNER /CONSULTANT. CONTRACTOR shall facilitate such reviews/monitoring by OWNER / CONSULTANT.		reviews/monitoring by OWNER / CONSULTANT. Note:1 Contractor shall provide all the required data to PMO (Project Management Office) appointed by CGIL for the project for successfully carrying out the Project Management activity. Contractor shall enable the interface for project data retrieval/sharing from its document management system or any other system to the digital dashboard of PMO. Note:2 Project Manager should possess the (Full Time Team Leader) with BE or BTech degree qualification with past experience of more than 15 Yrs.

LEGEND:

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