



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

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Sector-62, Noida, Uttar Pradesh, PIN No: 201301

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CORRIGENDUM - 09 TO NIT NO-66823

Dated 29.08.2022

Subject: Corrigendum-09 to Tender enquiry for Pre-bid Tie up for Supply & Services of 230kV and 66kV GIS for CPCL Nagapattinam Refinery Project.

Project : CPCL Nagapattinam Refinery PROJECT
Equipment / Item : SUPPLY & SERVICES OF 230kV and 66kV.
Enquiry No/Date : 61Q2300095 Dated 16.07.2022
BHEL NIT NO : 66823
Original Tender due date : 18.07.2022

This Corrigendum is issued by BHEL TBG against above mentioned NIT/ enquiry for following -

1. Extension of due date of offer submission/opening upto **07.09.2022**.
- 2. Issue of Technical corrigendum-02 (enclosed).**

All other terms and conditions for this tender enquiry shall remain unchanged.

Bidder to ensure submission of offer on or before due.

Note: Tender ID in CPP Portal is **2022_BHEL_15373_1**.

Thanking you

-----Sd/-----

Gaurav Agarwal
BHEL TBG, NOIDA

Ref. No. CPCL Technical Corrigendum-02

Project: Design, Engineering, Supply, Erection*, Testing & Commissioning of 230kV & 66kV GIS for Cauvery Basin Refinery (CBR), Chennai Petroleum Corporation Ltd. (CPCL) at Nagapattinam, Tamil Nadu.

Date: 29.08.2022

Sl. No.	Document Description of Original Technical Specification	Technical Corrigendum-02
		Remarks, if any
1	Section-1 Annexure-BOQ 230kV & 66kV GIS CPCL	No change
2	Section-1 Section-1.2 & 1.6	No change
3	Section-2	Please refer Annexure-Technical Amendment to Section 2 REV02 in addition to original Section-2 and Annexure-Technical Amendment to Section 2. Following documents are added to Original Section-2 and Annexure-Technical Amendment to Section 2. - Annexure-Technical Amendment to Section-2 REV02/ Corrigendum-4 from CPCL. Note: The highlighted changes are related to present scope of work and hence, these are to be noted and complied by bidders, however, bidders are requested to go through the complete document for entire understanding.

Note: Amendment/ addendum/ clarification/ corrigendum issued herein shall form part of Technical Specification. All bidders to please note that amendment/addendum/ clarification/ corrigendum issued will supersede the respective clause/ sub-clause of Technical Specification Document to the extent for the clause/ sub-clause or part thereof the amendment is issued.



Annexure-Technical Amendment to Section-2 REV02



CORRIGENDUM-04

CORRIGENDUM NO: 12416A-EL-GIS-40101- 04

BIDDING DOCUMENT NO: 12416A-EL-GIS-40101

TENDER ID: 2022_DGMMC_8573_1

NAME OF WORK: GRID POWER DISTRIBUTION NETWORK 230KV GIS INCLUDING OUTDOOR EQUIPMENT AND 66KV GIS

PROJECT: 9MMTPA CBR PROJECT AT NAGAPATTINAM TAMIL NADU

Sr. No.	Part of the Bidding Document	Document Reference	Clause/ Item No	Subject	MODIFICATIONS/ ADDITIONS/ DELETIONS
1.	Tender Document	Notice Inviting Tender (NIT)	3.0 XI	Last Date and time of submission of Bids	Modification: Bid Due Date is extended till 13-09-2022 up to 14:00 Hrs.
2.	Tender Document	Notice Inviting Tender (NIT)	3.0 XII	Opening of Techno-commercial (Unpriced) Bids	Modification: Opening of Techno-commercial (Unpriced) Bids on 14-09-2022 at 14.00 hrs.
3.	Tender Document	Volume – I Page 70 of 2608	Attachment – VII	Instruction to Bidders- Format for furnishing affidavit on authenticity of documents.	Modification: Format for furnishing affidavit on authenticity of documents submitted against Bidder Qualification Criteria to be submitted on Rs 100/- Stamp paper duly notarized.

CORRIGENDUM-04

Sr. No.	Part of the Bidding Document	Document Reference	Clause/ Item No	Subject	MODIFICATIONS/ ADDITIONS/ DELETIONS															
4.	Tender Document	Volume-I Page 501 of 2608	Table-1	SPECIAL CONDITIONS OF CONTRACTS Table-1: Applicable Evaluation / LD Factors	<p>Modification to existing table</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Particulars</th> <th>Evaluation / LD Factor</th> <th>Existing Value (Rs Lakhs)</th> <th>Revised Value (Rs Lakhs)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>For every 1 kW increase in auxiliary power consumption over the guaranteed value given.</td> <td>Evaluation factor</td> <td>0.92</td> <td>2.3</td> </tr> <tr> <td></td> <td></td> <td>LD factor</td> <td>0.92</td> <td>2.3</td> </tr> </tbody> </table>	No.	Particulars	Evaluation / LD Factor	Existing Value (Rs Lakhs)	Revised Value (Rs Lakhs)	1.	For every 1 kW increase in auxiliary power consumption over the guaranteed value given.	Evaluation factor	0.92	2.3			LD factor	0.92	2.3
No.	Particulars	Evaluation / LD Factor	Existing Value (Rs Lakhs)	Revised Value (Rs Lakhs)																
1.	For every 1 kW increase in auxiliary power consumption over the guaranteed value given.	Evaluation factor	0.92	2.3																
		LD factor	0.92	2.3																
5.	Tender Document	Volume-II Part 1 of 4 Page 598 of 2608	2.22	Section C1: Scope of Work	<p>Modification:</p> <p>Existing Clause 2.22 is replaced as under:</p> <p>Layouts in battery limit like lighting, cabling, earthing and lightning protection etc. are in GIS LSTK contractor scope.</p> <p>Earthing Below & above ground earthing (including electronic earthing) for 230kV & 66kV GIS buildings and 230kV outdoor equipment earthing within battery limit of this package shall be provided.</p>															

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Sr. No.	Part of the Bidding Document	Document Reference	Clause/ Item No	Subject	MODIFICATIONS/ ADDITIONS/ DELETIONS
					<p>Cable Trays & Accessories Within GIS LSTK contractor battery limit, both 230kV and 66kV GIS area (as per attached sketch-1), the supply and erection including the cable trays, its supports & accessories (above ground or underground) upto any location within the battery limit shall be provided.</p> <p>Lighting Area lighting & indoor lighting for 66kV GIS building as per attached sketch-1 is in GIS LSTK contractor scope. Road lighting, area lighting & indoor lighting shall be provided for 230kV GIS/switchyard.</p>
6.	Tender Document	Volume-II Page 624 of 2608	4.1.10	Section C4: 230kV GIS Specification, Clause 4.0 DESIGN AND CONSTRUCTIONAL FEATURES	<p>Modification: Existing Clause 4.1.10 is replaced as under:</p> <p>The switchgear and all its components and accessories shall be designed for minimum maintenance during service. The manufacturer shall state the minimum interval between minor inspections (which will be restricted to visual checking and adjustments of external parts only) and major inspection / overhaul, including refilling or replenishment of gas and cleaning of the contaminant or filter in the circuit breaker chamber(s). Suitable glass window/telescopic port shall be provided</p>



CORRIGENDUM-04

Sr. No.	Part of the Bidding Document	Document Reference	Clause/ Item No	Subject	MODIFICATIONS/ ADDITIONS/ DELETIONS
					<p>in the circuit breaker, disconnect and grounding switch modules for ensuring proper contact making. The bearings and other such parts shall be permanently lubricated for the entire service life.</p> <p>The GIS equipment with the given bus switching arrangement is divided into different gas compartments. During the work such as a fault repair or major maintenance, requiring the dismantling of a gas compartment for which more than one compartment may needed to be de-gassed.</p> <p>Working conditions, method statements and procedures are to be furnished by the GIS manufacturer in order to ensure equipment and operating personnel's safety and to achieve following service continuity conditions to the extent possible:</p> <p>a) For double main bus switching scheme during a fault in CB compartment, No busbar is permitted out of service during maintenance and repair / replacement.</p> <p>b) During a fault in GIS compartment other than CB compartment, maximum one busbar and/or one feeder permitted out of service during maintenance and repair / replacement.</p>

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Sr. No.	Part of the Bidding Document	Document Reference	Clause/ Item No	Subject	MODIFICATIONS/ ADDITIONS/ DELETIONS
7.	Tender Document	Volume-II Part 1 of 4 Page 646 of 2608	5.3.2 (e)	Section C4: 230kV GIS Specification Voltage Transformers	Modification: Clause 5.3.2(e) is replaced as under: Whenever a VT secondary winding is used for both measurement and protection application it shall have dual accuracy class of 0.5/3P, unless otherwise specified. However, for revenue class metering applications the accuracy class shall be 0.2 for that core.
8.	Tender Document	Volume-II Part 1 of 4 Page 646 of 2608	5.3.1 (f) (ii)	Section C4: 230kV GIS Specification CI: 5.3 Instrument Transformers	Deleted: Subclause (ii) of 5.3.1 of (f) stands deleted.
9.	Tender Document	Volume-II Page 699 of 2608	4.1.10	Section C4: 66kV GIS Specification, Clause 4.0 DESIGN AND CONSTRUCTIONAL FEATURES	Modification: Existing Clause 4.1.10 is replaced as under: The switchgear and all its components and accessories shall be designed for minimum maintenance during service. The manufacturer shall state the minimum interval between minor inspections (which will be restricted to visual checking and adjustments of external parts only) and major inspection / overhaul, including refilling or replenishment of gas and cleaning of the contaminant or filter in the circuit breaker chamber(s). Suitable glass window/telescopic port shall be provided

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Sr. No.	Part of the Bidding Document	Document Reference	Clause/ Item No	Subject	MODIFICATIONS/ ADDITIONS/ DELETIONS
					<p>in the circuit breaker, disconnect and grounding switch modules for ensuring proper contact making. The bearings and other such parts shall be permanently lubricated for the entire service life.</p> <p>The GIS equipment with the given bus switching arrangement is divided into different gas compartments. During the work such as a fault repair or major maintenance, requiring the dismantling of a gas compartment for which more than one compartment may needed to be de-gassed.</p> <p>Working conditions, method statements and procedures are to be furnished by the GIS manufacturer in order to ensure equipment and operating personnel's safety and to achieve following service continuity conditions to the extent possible:</p> <p>a) For double main bus switching scheme during a fault in CB compartment, No busbar is permitted out of service during maintenance and repair / replacement.</p> <p>b) During a fault in GIS compartment other than CB compartment, maximum one busbar and/or one feeder permitted out of service during maintenance and repair / replacement.</p>
10.	Tender Document	Volume-II Part 1 of 4 Page 720 of 2608	5.3.1 (f) (ii)	Section C5: 66kV GIS Specification	<p>Deleted:</p> <p>Subclause (ii) of 5.3.1 of (f) stands deleted.</p>

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Sr. No.	Part of the Bidding Document	Document Reference	Clause/ Item No	Subject	MODIFICATIONS/ ADDITIONS/ DELETIONS
				CI: 5.3 Instrument Transformers	
11.	Tender Document	Volume-II Part 1 of 4 Page 721 of 2608	5.3.2 (e)	Section C5: 66kV GIS Specification Voltage Transformers	Modification: Clause 5.3.2(e) is replaced as under: Whenever a VT secondary winding is used for both measurement and protection application it shall have dual accuracy class of 0.5/3P, unless otherwise specified. However, for revenue class metering applications the accuracy class shall be 0.2 for that core.
12.	Tender Document	Volume-II Part 1 of 4 Page 812 of 2608 & Consolidated pre-bid queries Lot-1, S.No 142	10.5	Lighting System	Modification: DC critical lighting on pipe racks outside battery limit is not in the scope of Bidder.

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Sr. No.	Part of the Bidding Document	Document Reference	Clause/ Item No	Subject	MODIFICATIONS/ ADDITIONS/ DELETIONS				
13.	Tender Document	Volume-II Part 1 of 4 Page 871 of 2608	7. (a)	SECTION: D1 DATA SHEET 230KV GIS AND ITS ACCESSORIES GIS MECHANISM ENCLOSURE	Modification to line items:				
					7	GIS MECHANISM ENCLOSURE		Existing	Replaced
					a	Accessories			
						- Local/remote selector switch		Yes	Yes
						- Manual and electrical operation		Yes	Yes
						- Light, heater and service outlet in hand operated mechanism enclosure		Yes	Yes
						- MCB protected motor and control circuits		Yes	Yes
						- Motor contactor		Yes	Yes
						- Test switches (d.c.)		Yes	Yes
						- Terminal blocks		Yes	Yes
						- Enclosure degree of protection		IP 64	IP 42
	- Grounding bushing for testing of GIS insulation (10 kV isolation)		-	Bidder to specify					

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Sr. No.	Part of the Bidding Document	Document Reference	Clause/ Item No	Subject	MODIFICATIONS/ ADDITIONS/ DELETIONS				
14.	Tender Document	Volume-II Part 1 of 4 Page 891 of 2608	7. (a)	SECTION: D2 DATA SHEET 66KV GIS AND ITS ACCESSORIES GIS MECHANISM ENCLOSURE	Modification to line items:				
					7	GIS MECHANISM ENCLOSURE		Existing	Replaced
					a	Accessories			
						- Local/remote selector switch		Yes	Yes
						- Manual and electrical operation		Yes	Yes
						- Light, heater and service outlet in hand operated mechanism enclosure		Yes	Yes
						- MCB protected motor and control circuits		Yes	Yes
						- Motor contactor		Yes	Yes
						- Test switches (d.c.)		Yes	Yes
						- Terminal blocks		Yes	Yes
						- Enclosure degree of protection		IP 64	IP42
						- Grounding bushing for testing of GIS insulation (10 kV isolation)		-	Bidder to specify

All other terms & conditions, stipulations, specifications etc. of Bidding Document including Corrigendum/Amendments, if any, issued earlier shall remain unaltered.

Enclosure - Sketch -1

SKETCH-1

