

FINAL EVALUATION REPORT
(As Per Rule 35 of PP Rules, 2004)

- | | |
|----------------------------------|---|
| 1. Name of Procuring Agency | <u>National Transmission and Despatch Co. Ltd (NTDCL)</u> |
| 2. Method of Procurement | <u>International Competitive Bidding (ICB) & Single Stage Two Envelope (SSTE)</u> |
| 3. Title of Procurement | <u>Design, Manufacture, Supply, Installation, Erection, Testing and Commissioning of 220/132/11 KV Gas Insulated Switchgear (GIS) Substation Dhabeji</u> |
| 4. Tender Inquiry No. | <u>NOR-112R2-2022</u> |
| 5. PPRA Ref No. | <u>TS471897E</u> |
| 6. Date & Time of Bid Closing | <u>17/03/2022 at 11:00 A.M.</u> |
| 7. Date & Time of Bid Opening | <u>Technical: 17/03/2022 at 11:30 A.M.</u>
<u>Financial: 06/05/2022 at 11:00 A.M.</u> |
| 8. No of Bids Received | <u>02</u> |
| 9. Criteria for Bid Evaluation | <u>Evaluation and Comparison of Bid as per Section-I "Instructions to Bidders" of Bidding Documents</u> |
| 10. Details of Bid(s) Evaluation | |

Name of the Bidders	Marks		Quoted Bids Price excluding Provisional Sum	Evaluated/ Discounted/ Corrected Bids Price (PKR)	Remarks
	Technical (If Applicable)	Financial (If Applicable)			
M/s. SIEMEMS Pakistan Engineering Co. Ltd.,	NIL	NIL	€1,597,936 + \$11,073,997 + PKR 1,706,007,423	4,035,780,611.52	Responsive
M/s. CCCE-ETERN-AL-Hussain Consortium	NIL	NIL	CNY 91,176,099 + PKR 1,079,840,608	4,123,828,632.00	Responsive but higher in Price

11. Most Advantageous Bidder

M/s. SIEMEMS Pakistan Engineering Co. Ltd., at Award Price of USD 9,972,993 + Euro 1,404,037 + PKR 1,508,067,643 (excluding Provisional Sum)

12. Any other additional/supporting information, the procuring agency may like to share

Nil

Signature _____
Official Stamp CHIEF ENGINEER (MP&M) NTDC

Note: The above evaluation results are based on detailed Bid Evaluation Report (BER) and correct to best of our knowledge however, in case of any discrepancy, the content of original BER shall prevail.

8 ntdc 24/1/22



NATIONAL TRANSMISSION & DESPATCH CO. LTD

Company Secretary

No. NTDC/CS/2/12-14

Dated: 18 - 11 - 2022

NOTIFICATION

Approval for award of Contract for Design, Manufacture, Supply, Installation, Erection, Testing and Commissioning of 220/132/11kV Gas Insulated Switchgear (GIS) Substation Dhabeji on Turnkey basis under NTDC own resources. Tender No. NOR-112R2-2022

The Board of Directors of National Transmission & Despatch Company Limited (NTDC) in its 234th meeting held on 15.11.2022 against agenda item No. 08 has unanimously resolved and approved as under: -

- i. The award of contract against the subject tender to M/s Siemens Pakistan at award price of USD 9,972,993 + EUR 1,404,037 + PKR 1,508,067,643 excluding Provisional Sum of PKR 330 Million.
- ii. The arrangement of working capital credit line facilities for establishment of letter of credit by CFO - NTDC Office.

Note: The above price is exclusive of PST. The treatment of PST will be done as per rules and regulations of relevant Provincial Revenue Authority.

Azhar Saleem
Company Secretary

Copy to:

1. Managing Director
2. Chief Financial Officer
3. General Manager (P&CM)

Endst: No. GM/P&CM/NTDC/ 907

Dated: 21 /11/2022

The above said matter is forwarded to CE (MP&M) NTDC, for further necessary action at their end.

General Manager (P&CM) NTDC

REVIEW REPORT ON EVALUATION OF BIDS AGAINST TENDER NO. NOR-112R2-2022 DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, ERECTION, TESTING AND COMMISSIONING OF 220/132/11kV GAS INSULATED SWITCHGEAR (GIS) SUBSTATION DHABEJI ON TURNKEY BASIS UNDER NTDC OWN RESOURCES

1. Background and Introduction

- 1.1 Chief Engineer (MP&M) NTDC invited sealed bids on the basis of International Competitive Bidding from eligible bidders for design, manufacture, supply, installation, erection, testing and commissioning of 220/132/11kV Gas Insulated Switchgear (GIS) Substation Dhabeji on turnkey basis against Bidding Document No. NOR-112R2-2022 financed under NTDC's own resources through International Competitive Bidding (ICB) "Single Stage Two Envelope Bidding".
- 1.2 The Pre-Bid meeting with the prospective Bidders (who purchased the bidding document) was held by Chief Engineer (MP&M) NTDC on 22.02.2022.
- 1.3 The subject tender on Single Stage Two Envelope (SS2E) Basis was publicly opened on 17.03.2022 by the Tender Opening Committee at the office of Chief Engineer (MP&M) NTDC in the presence of Bidder's representatives.
- 1.4 After obtaining approval of the competent authority, the price proposals of substantially responsive firms were opened on 06.05.2022 by the Tender Opening Committee at the office of C.E. (MP&M) NTDC Lahore in the presence of Bidder's representatives.
- 1.5 The basic data of tender is indicated below:

i	No. of Bidding Documents sold	15
ii.	Date of Technical Bid opening	17.03.2022
iii.	No. of Bidders participated	02
iv	Date of Financial Bid opening	06.05.2022
v	Bid Validity	180 days
vi	Bid Valid till	13.09.2022

2. Scope of Work

Scope of the supply of Works under this bidding document includes but not limited to design, manufacturing, testing, delivery to wharf at seaport of Pakistan, unloading and loading at seaport, transportation to the substation site, unloading and storage at site, insurance to site, designing & construction of associated civil works/structure according to the site requirements considering the required seismic factors by following the Building Code of Pakistan (Seismic Provision-2007I issued by the Ministry of Housing and Works Government of Pakistan [SP-2007] including GIS Halls, control house building, MV Switchgear room, Metering room, generator room, equipment foundations, trenches, fencing around switchyard, switchyard Paths & transformer bays, switchyard gate, lightning arrangement, fire protection walls, walk ways, complete erection, testing and commissioning, preparation of operation & maintenance manual and project completion report etc. of 220/132/11 kV Gas Insulated Switchgear (GIS) Substation Dhabeji, for

(Signature)

220/132/11 kV GIS Dhabeji Substation**220kV Side** (Double Bus Bar Single Breaker Scheme)

- i. Two (02) Nos. 220kV Line Bays.
- ii. Two (02) Nos. 160MVA, 220/132/11kV Auto-Transformer Bays
- iii. Two (02) Nos. PT Bays
- iv. One (01) No. Bus Coupler Bay
- v. Dedicated Metering CT's & PTs at HV side of 160MVA, 220/132 kV Auto-transformers.
- vi. Protection, control, metering and Telecommunication & SCADA system
- vii. Space shall be available in 220kV GIS Hall for future extension (02 Nos. 220kV Line Bays and 01 No. 160MVA, 220/132/11kV Auto Transformer).

132kV Side (Double Bus Single Breaker Scheme)

- i. Two (02) Nos. 31.5/40MVA, 132/11.5kV Power Transformer Bay
- ii. One (01) No. 10/13MVA, 132/11.5kV Power Transformer Bay
- iii. Two (02) Nos. PT Bays
- iv. One (01) No. Bus Coupler Bay
- v. Protection, Control, Metering and Telecommunication & SCADA system.
- vi. Space shall be available in GIS Hall for future extension (04 Nos. 132kV Line Bays and 01 No. Auto Transformer Bay).

11kV Side

- i. Three (03) Nos. Incoming Panels
- ii. Twenty-Four (24) Nos. Outgoing Panels
- iii. Two (02) Nos. 8MVar Capacitor Banks
- iv. Two (02) Nos. Capacitor Panel
- v. Two (02) Nos. Pad Mounted Transformers (PMT)
- vi. Two (02) Nos. Outgoing Panels for 200kVA, 11.5/0.415kV Pad Mounted Transformers (PMT).
- vii. One (01) No. Coupler Panel.

Completion Period: The Time for Completion is **540 days** from the Commencement Date.

3. **Comparison and Responsiveness of Bids.**

The commercial, technical and financial evaluation of the bid was done by Engineer i.e., o/o Chief Engineer (SS Design) NTDC & CFO NTDC to determine the substantial responsiveness of the bidders.

The status of the participating bidders against the subject tender is as under: -

Sr.#	Name of Bidder's	Status
1.	M/s. Siemens (Pakistan) Engineering Co. Ltd.	Responsive
2.	M/s. CCCE-ETERN-AI Hussain Consortium	Responsive

4. **Qualified Responsive Bidders:**

The prices quoted by the responsive bidders along with evaluated prices are tabulated below:

Sr. No.	Description	M/s. Siemens Pakistan	M/s. CCCE – ETERN – Al Hussain Consortium
1	Quoted Bid Price (Excluding Provisional Sum PKR 330 Million)	€1,597,936	CNY 91,176,099 PKR 1,079,840,608
		\$11,073,997	
		PKR 1,706,007,423	
2	Discount offered	€193,899	Nil
		\$1,101,004	
		PKR 197,939,780	
3	Discounted Bid Price	€1,404,037	CNY 91,176,099 PKR 1,079,840,608
		\$9,972,993	
		PKR 1,508,067,643	
4	Arithmetic Correction	Nil	(CNY 411,563)
			(PKR 204,196)
5	Corrected Bid Price	€1,404,037	CNY 90,764,537
		\$9,972,993	
		PKR 1,508,067,643	PKR 1,079,636,412
6	Price Adjustment due to completeness in scope of work (PKR)	168,123,286.56	6,589,532.80
7	Amount of capitalization of losses (PKR)*	152,011,683	144,778,797
8	Amount of adjustment due to landed cost calculation (PKR)	134,257,841	310,572,841
9	Total Evaluated Bid Price (PKR)	4,035,780,611.52	4,123,828,632.00
10	Relative Ranking	100%	102.2%

Note: 1 USD = 179.9 PKR, 1 EURO = 198.84 PKR & 1 CNY = 28.45 PKR on technical bid opening date i.e. 17th March 2022.

* Calculation Sheet of Capitalization of losses attached at Annex-I.

4. **Financial Position of Lowest Responsive Bidder**

Financial position of Lowest substantially responsive bidder M/s. Siemens Pakistan is given below:

Description	M/s. Siemens Pakistan (Million USD)
Net Worth for last 03 years i.e., 2021, 2020, 2019	Positive
Average Annual Turnover Required (14 MUSD)	89
Financial Resources Required (3.5 MUSD)	95.87

5. **Reasonability of Prices:**

Corrected Bid Price of the lowest evaluated bidder (USD Million)	Engineer's Estimate (USD Million)	% Variance
19.907	17.16	16% Higher

- The estimated project cost has been taken from approved PC-1 of "220KV Dhabeji substation for provision of electricity for Dhabeji SEZ"
- PC-I was approved in 2020 and further escalated for 1 years @ 6.5% per annum for Local Cost Component and 4.11 % per annum for Foreign Cost Component as per NTDC's SOP for preparation of Engineer's Estimate.

6. **Recommendations of Chief Engineer (Substation Design) NTDC**

The engineer has stated that M/s. Siemens, Pakistan has Lowest evaluated bid price, therefore, pursuant to Clause-30 Section 1 - ITB of tender document, subject to compliance with observations/discrepancies mentioned in TBER and PBER, it is recommended that the contract be awarded to M/s. Siemens, Pakistan at the corrected bid price of **USD 9,972,993 + EUR 1,404,037 + PKR 1,508,067,643** excluding Provisional Sum of PKR 330 Million. However, reasonability of price aspects and applicable rates of taxes considered as regards to Domestic preference clause may be looked into by GM (P&CM) NTDC.

7. **ACTIVITY WISE TIMELINE**

Sr.#	Activity Description	Dated	Days Taken
1	Tender opening	17-03-2022	-
2	TBER finalized by evaluator	25-04-2022	39
3	Review report finalized and submitted by P&CM	28-04-2022	03
4	Financial bid opened on	06-05-2022	08
5	Financial bid report finalized by evaluator	02-06-2022	27
6	Clarification sought from CE SSD	13-06-2022	11
7	Response received from CE SSD	15-06-2022	02
8	Review Report finalized by P&CM	15-06-2022	-

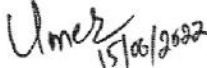
8. **Observations of P&CM NTDC**


The Bid Evaluation Report prepared by Bid Evaluation Committee NTDC has been reviewed in the light of the bidding document and information available in the bid evaluation report. The bid evaluation report is substantially found in order.

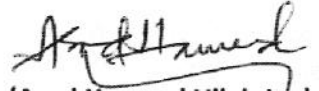
9. **Recommendations of P&CM (NTDC)**

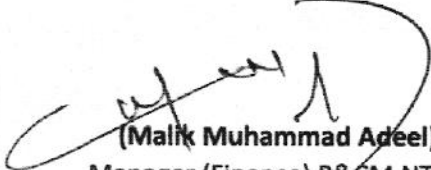
As per detailed technical, commercial and financial evaluation done by Bid Evaluation Committee, P&CM recommends award of contract to M/s Siemens Pakistan at award price of **USD 9,972,993 + EUR 1,404,037 + PKR 1,508,067,643 excluding Provisional Sum of PKR 330 Million.**


The above price is exclusive of PST. The treatment of PST will be done as per rules and regulations of relevant Provincial Revenue Authority.


(Umer Arshad)
A.M (Tech) P&CM NTDC


(Abdul Muqteet)
Dy. Manager (Tech) P&CM NTDC


(Asad Hameed Ullah Jan)
Manager Tech (P&CM) NTDC


(Malik Muhammad Adeel)
Manager (Finance) P&CM NTDC


(Masud-ur-Rehman)
Chief Engineer (CM) P&CM NTDC


(Ashar Ali)
General Manager (P&CM) NTDC

10. **DMD (AD&M, NTDC)**

11. **Managing Director (NTDC)**

ANNEX-I

CAPITALIZED COST				
TENDER NO. NOR-112R2-2022				
Sr. No	Name of Bidder	132/11KV Power Transformers		Total Loading
		PKR	PKR	
1	M/s Siemens	143,023,379	5,627,052	152,011,683
2	M/s CCE-E-TERN-AI Hussain	137,410,499	4,079,366	144,778,797

132/11KV Power Transformers

S/No.	Name of Bidder	Rating	Name of Manufacturer	TF No load Loss (KW) at 100% voltage	Tolerance %	TF Load Loss (KW)	Tolerance %	Aux. loss (KW)	Capitalization cost in US\$ for one Transformer	Total Capitalization Cost in US\$ for Transformers	Total Capitalization in (PKR)	
											J	K
A			B	C	D	E	F	G	H	I	J	K
1	M/s Siemens	10/13MVA	M/s Chant Electric China	13.00	0.00	148.50	0.00	1.56	247,672	247,672	44,556,193	143,023,378
		31.5/40MVA	M/s Hangzhou Qianhang River Electric Group Co., Ltd., China	18.00	0.00	146.86	0.00	3.20	273,672	547,344	98,467,186	
2	M/s CCE-E-TERN-AI Hussain	10/13MVA	M/s Chant Electric China	13.00	0.00	148.50	0.00	1.56	247,672	247,672	44,556,193	137,410,498
		31.5/40MVA	M/s Chant Electric China	15.00	0.00	145.36	0.00	4.68	258,072	516,144	92,854,306	

No of 31.5/40MVA PT= 2 US\$ - Rs 179.9
 No of 10/13MVA PT= 1

Capital cost of no-load losses = US\$ 5200 per kW (at 100% voltage)

Capital cost of load losses = US\$ 1200 per kW (at principal tap, upper rating & 75 deg C)

Capital cost of aux. losses = US\$ 1200 per kW (at upper rating excluding 25% extra fms)

Capitalized cost is only for the purpose of evaluation of bids

a)

b)

c)

Note

Battery Banks

Sr. No.	Name of Bidder	Name of Manufacturer	Type of Battery	Scaling Factor	Quoted Price		Evaluated Price on account of type of positive plate	Difference/Loading
					220VDC	110VDC		
1	M/s Siemens	Volta	Tubular	1.4	5,378,420.00	PKR 14,067,650.00	PKR 19,694,682.00	PKR 5,627,052.00
2	M/s CCE-E-TERN-AI Hussain	Volta	Tubular	1.4	7,166,813.50	PKR 10,198,415.50	PKR 14,277,981.70	PKR 4,079,366.20

Battery Chargers

Sr. No.	Bidder name	Name of Manufacturer	110V, 40A (Qty: 03)		220V, 40A (Qty: 03)		Capitalization
			offered	losses	offered	losses	
1	M/s Siemens	M/s Electroways	5,011.2	6,864.0	5,150.4	6,403.2	PKR 2,670,436
2	M/s CCE-E-TERN-AI Hussain	M/s Electroways	5,150.4	6,403.2	5,150.4	6,403.2	PKR 2,598,116

Capacitor Banks

Sr. No.	Bidder name	Name of Manufacturer	Losses (Watts/kvar)		Required Losses (Watts/kvar)		Capitalization \$ (\$1200/KW)
			0.2	3.2	16000	3200	
1	M/s Siemens	M/s Herong Electric	0.2	3.2	16000	3200	PKR 690,816
2	M/s CCE-E-TERN-AI Hussain	M/s Herong Electric	0.2	3.2	16000	3200	PKR 690,816