



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN – 01

Ref: PSER:SCT:KLW-C1846:TCN-01

Date: 25-07-2017

Sub	Tender change notice (TCN) 01	
Job	Geo technical investigation and topographical survey at natural gas based Combined Cycle Power Plant, Kilwa Energy Company Limited (KECL), Somanga Mtama Village, kilwa district, lunde region in Tanzania.	
Ref	1.0	Tender no PSER:SCT:KLW-C1846:17
	2.0	BHEL's NIT, vide reference no PSER:SCT: KLW-C1846:5817, Dated 25-07-2017.
	3.0	All other pertinent issues till date.

With reference to above, following points/ documents, relevant to tender, may please be noted and complied with while submitting offer.

- 1.0 Revised BOQ cum price schedule, **VOLUME-III-PRICE SCHEDULE, REV-01** is attached **superseding VOLUME-III PRICE SCHEDULE, REV-0** issued earlier along with NIT. Bidder shall quote as per this revised Volume-III, Rev-01 only. Bidders are also requested to submit a declaration in techno-commercial offer that they have submitted their price bid as per **REVISED price schedule** format (**VOLUME-III- PRICE SCHEDULE, REV-01**).
- 2.0 Revised 'No deviation certificate' as per enclosed Annexure-2. Bidder shall submit no deviation certificate as per enclosed format only.
- 3.0 All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD

DY MGR (SCT)

Encl : As above.

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION, DJ-9/1, SECTOR-II, SALT LAKE CITY, KOLKATA - 700 091

फैक्स/Fax : (033) 23211960

फोन/Phone : बोर्ड/EPABX : 23211691, 23211798, 23211796

FORMAT FOR NO DEVIATION CERTIFICATE
(To be submitted in the bidder's letter head)

BHARAT HEAVY ELECTRICALS LIMITED,
Power Sector - Eastern Region,
Plot no 9/1, DJ Block, Sector – II, Salt Lake City,
Kolkata – 700 091

Sub	No Deviation Certificate.	
Job	Geo technical investigation and topographical survey at natural gas based Combined Cycle Power Plant, Kilwa Energy Company Limited (KECL), Somanga Mtama Village, kilwa district, linde region in Tanzania.	
Ref	1.0	Tender no PSER:SCT:KLW-C1846:17
	2.0	BHEL's NIT, vide reference no PSER:SCT: KLW-C1846:5817, Dated 21-07-2017.
	3.0	BHEL's TCN-01, vide reference no PSER:SCT:KLW-C1846:TCN-01, dated 25-07-2017.
	4.0	All other pertinent issues till date.

Dear Sirs,

With reference to above, this is to confirm that as per tender conditions, we have visited site before submission of our offer and noted the job content & site conditions etc. We also confirm that we have not changed/ modified the tender documents as appeared in the website/ issued by you and in case of such observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT. We hereby confirm our unqualified acceptance to all terms & conditions, unqualified compliance to technical specification, integrity pact (if applicable) and acceptance to reverse auctioning process.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

(Signature, date & seal of authorized
representative of the bidder)

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION DJ-9/1, SECTOR-II, SALT LAKE CITY, KOLKATA - 700 091

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VOLUME-III PRICE SCHEDULE, REV-01	
Geo technical investigation and topographical survey at natural gas based Combined Cycle Power Plant, Kilwa Energy Company Limited (KECL), Somanga Mtama Village, Kilwa district, linde region in Tanzania.	
TENDER DOCUMENT NO - PSER:SCT:KLW-C1846:17	
PREAMBLE	
1	This preamble forms part of tender document and schedule of items. The tenderer should read this preamble carefully before filling in rates for various items. Clauses under this preamble shall be read in conjunction with various volumes of tender and other tender sections as applicable and shall have precedence over any contrary statement mentioned anywhere in this document.
2	The work shall be carried out strictly as per specifications, description of the items in these schedule and / or engineer's instructions. Drawings enclosed with the tender are only preliminary and for tender purposes and giving some idea of the work involved. The work is to be executed as per drawings & documents, which shall be furnished during execution.
3	Items of work provided in this schedule but not covered in this specification shall be executed strictly as per instruction of the engineer.
4	Unless specifically mentioned otherwise in the tender document, the tenderer shall quote for the finished items and shall provide for the complete cost towards power, fuel, tools, tackles, equipment, constructional plants, temporary works, labour, dismantling of all temporary piping, structures, valves, pumps, tanks & other misc. equipment, strengthening of roads/culverts/bridges etc. including arranging all clearances etc. required for carrying out different activities & tests, materials, levies, taxes(except service tax), transport, layout, repairs, rectification, maintenance till handing over, supervisions, colonies, shops, establishments, overheads, profits and all incidental items not specifically mentioned but reasonably implied and necessary to complete the work according to the complete tender document and this schedule.
5	The quantities of the various items mentioned in this schedule of items are approximate, based on very preliminary information and may vary to any extent or be deleted altogether. The quoted rates of each item will remain firm throughout the period of execution including extension, for reasons whatsoever, as long as variation in the total value of work executed under any part of this contract including extra items, if any but excluding any price variation remains, within fifteen percent (± 15%) of the awarded price as per LOI .
6	Prior written approval of BHEL shall be sought by the contractor in case quantity variation of any item crosses +50% (plus fifty percent) limit during execution and approval to be obtained before execution of further quantity for this item.
7	In case Sealed /Paper Price Bids are opened for finalisation of the tender, for any Item Rate/BOQ based contract, possibility of variation of quantity/ addition/deletion of items can not be ruled out. Under such circumstances, after execution of work, if it is observed that standing as L-1 is changed based on actual quantity executed, the bidder shall give suitable rebate to maintain your standing as L-1. Since this aspect can be assessed at the end of execution, necessary adjustment will be effected at the end of execution in final bill.This condition shall not be applicable where the tender is finalised through Reverse Auction.
8	BHEL reserve the right to rationalize the rates, quoted by L-1 bidder against unit rate items and/ or other optional items with respect to item-wise lowest rates (amongst the participating bidders), before placement of order.
9	The rates quoted shall be inclusive of cleaning of site of any vegetation, dressing , clearing of old structures and leveling etc. including fixing of grid pillars, benchmarks etc. required for commencement of site activities. No separate payment will be made towards the same.However, if separate rate for such item is available in the rate schedule, the same shall be considered.
10	Rates shall be quoted in figures and in words in clear legible writing. No overwriting is allowed. All scoring and cancellations should be countersigned and in case of illegibility the interpretation of engineer shall be final. All entries shall be in English language.
11	All works item wise shall be measured upon completion and paid for at the rates quoted and accepted as per BHEL approved payment schedule/billing break-up.
12	The tender shall be deemed to have visited site and made himself aware of all the site conditions, studied the specifications and details of work to be done within the time schedule attached and to have acquainted himself of the conditions prevailing at site.
13	No splitting of the job is envisaged. Decision of BHEL in this regard shall be final and binding to the bidders.
14	Bidders are not allowed to alter the Price Schedule format including item description,quantity etc. and the offer is liable for rejection if the bidders submit their prices in Price Schedules modified by them.BHEL reserves the right to reject the offers of bidders who submit offers in Price Formats which are modified/altared by them. Also putting any comments instead of rates/price in the designated column of the rate schedule shall make the offer liable for rejection.
15	Bidders to note that for Civil &Structural packages, against a particular item against a ST No. appearing in more than one schedule of the BOQ, same rate must be quoted in all schedules for that particular items with same descriptions. If by error, different rates are quoted in different schedules for same ST No.(i.e. item with same description), then the higher of the rates shall be considered for evaluation but awarding shall be done with the lower rate ,if the bidder becomes L-1."
16	For Lumpsum Service Contract : The items/components indicated in the tender is indicative and may vary to any extent. No compensation shall be payable in case of any variation in the items/components listed in the bill of quantities if the executed weight remains within the variation limit. However, in case of deletion of any item or addition of new items over and above the items listed or variation of existing quantity beyond variation limit specified, adjustment (i.e. Payment or recovery as the case may be) shall be done on pro-rata basis based on the Rate per MT worked out from the quoted lump-sum Price and the total weight of components listed /indicated in price schedule plus 15% weight variation limit.
17	Engineer's decision shall be final and binding on the contractor regarding clarification of items in the schedule with respect to the other sections/volumes of the contract.
18	In case of tender for Civil and/or Structural works, if the Non-schedule items are not quoted by the bidder, it will be treated at par with rate of corresponding item of CPWD/PWD/DSR schedule as prescribed in the tender/BOQ cum Rate Schedule.
19	No interest, whatsoever, shall be payable by BHEL on the security deposit, any bank guarantee submitted or any amount due to successful bidder/contractor.
20	Size and weights of various items are mentioned in the attached BOQ cum rate/price schedule for reference purpose only & these shall not be taken into consideration for quoting/calculating amount in the rate schedule. These shall be utilised as per relevant sections of tender. Bidders shall quote for each item in the rate column, taking unit as mentioned in the quantity column. Rates shall be filled in both figures and words. Amount shall be calculated based upon these rates multiplied by the mentioned quantity for the respective items.
21	Bidder's Total price will be shall be considered for evaluation unless stated otherwise.
22	In case of BOP packages, if Bidder does not quote/indicate the price for freight chages against indicated rate schedule, the same shall be considered as 2% of basic price and adjusted with the total quoted price against each item keeping the total quoted price unaltered.

VOLUME-III PRICE SCHEDULE, REV-01		
Geo technical investigation and topographical survey at natural gas based Combined Cycle Power Plant, Kilwa Energy Company Limited (KECL), Somanga Mtama Village, Kilwa district, linde region in Tanzania.		
TENDER DOCUMENT NO - PSER:SCT:KLW-C1846:17		
SCH-1 : TOTAL PRICE		
SL NO	DESCRIPTION	TOTAL QUOTED PRICE (IN USD AND IN WORDS)
1.0	Geo technical investigation and topographical survey at natural gas based Combined Cycle Power Plant, Kilwa Energy Company Limited (KECL), Somanga Mtama Village, Kilwa district, linde region in Tanzania.	
NOTE		
1.0	Bidder shall quote total price for total price of SCH-1 only at sl no 1.0 above. All other amounts/ rates of each item of works in respective schedules/ parts will be derived based on allocated percentages. As such, any uncalled figure/ amount noted at any other place/ schedule of Volume-III will not be reckoned & will stand null & void.	
2.0	Bidder to note that total price at sl no 1.0 above shall be considered for evaluation & awarding. As such grand total price should be complete in all respect for the full scope defined and considering all terms and conditions.	
3.0	Bidder's quoted total price of SCH-1at Sl. no 1.0 above shall be apportioned into amount of various items of works based on allocated percentages against respective item of SCH-2. As such, bidder shall not indicate/ quote any amount/ rate in these schedules/ parts and any amount/ rate quoted against any item shall not be taken into cognizance/ account and offer may be liable for rejection.	
4.0	Based on the itemwise percentage allocations, the amount for the individual items of the Bill of Quantity shall be arrived at. The rates of individual items shall be derived from the amount against each items after rounding off .	
5.0	Unit rates of each item of works of respective schedules/ parts will be derived by dividing derived amount by corresponding quantities. In deriving the unit rates of each item in this manner, figures only upto 2 decimal places will be taken into account. Any adjustment, if required, due to such methodology, will be effected in final bill.	
6.0	Bidders to note that this is an item rate contract. Payment shall be made for the actual quantities of work executed at the unit rate arrived at as per SI No.5 above.	
7.0	Any item as per scope of work, if not included in the price quoted above and shown separately will not be taken cognizance of and the offer shall be liable for rejection.	
8.0	Price format shall not be changed by bidder in any case and it may lead to cancellation of their offer.	
9.0	The quantity of items may vary during execution mainly due to actual requirement etc. The unit rates work out from the overall amount quoted & accepted by BHEL shall be considered and no separate unit rates shall be allowed. Unit rates shall be valid throughout the contract period.	

**VOLUME-III
PRICE SCHEDULE, REV-01**

Geo technical investigation and topographical survey at natural gas based Combined Cycle Power Plant, Kiwa Energy Company Limited (KECL), Somanga Mtama Village, Kiwa district, linde region in Tanzania.

TENDER DOCUMENT NO - PSER:SCT:KLW-C1846:17

SCH-2 : TOTAL PRICE BREAK UP

ST. NO	DESCRIPTION OF ITEM	UNIT	Quantity	ALLOTED PERCENTAGE FOR AMOUNT OF EACH ITEM(Nearest to the 6 decimal points) W.R.T THE TOTAL OF ESTIMATED PRICE IN SCH-1
1	Mobilization of boring plant, other in-situ test equipment etc.	L.S	1	5.61440%
2	Boring through all kinds of soil/soft rock including taking out and sealing of undisturbed soil samples and water samples, maintaining necessary driving records of standard penetration test as per soil specification, at various depths including back filling with sand, taking coordinates and furnishing the necessary reports and data in the bore log form, to the Engineer.			
a	Up to 30.0m depth from existing ground level	Each	28	20.11510%
b	Extra per meter depth of boring beyond 30m up to 35m	R.M	50	1.56960%
3	Making test bores by drilling through rock or terminating in the hard rock (in continuation of item 2 above) including taking out rock cores, as specified, maintaining necessary drilling record and submitting them in bore log form, to the Engineer.			
a	Coring in soft/weathered rock with TC bit.	Mts.	80	4.73300%
b	Coring in hard rock with diamond bit.	Mts.	28	2.45100%
4	Digging trial pits			
a	Digging trial pits, taking undisturbed/disturbed soil samples and carrying out plate load tests, as per specification, at depth of 2.5m below existing ground level, including de- watering, if required and back filling after tests, using 600X600mm plates.	Each	4	0.10630%
b	Do- extra over every 1 m increase in depth.	M	4	0.08450%
5	Conducting cross hole seismic survey to obtain dynamic soil properties, at various depths/ layers.	Each	3	1.54850%
6	Conducting Vane shear tests in clays as per IS/BS (Bottom of bore hole method).	Each.	4	2.60800%
7	Conducting Electrical resistivity tests for evaluation of soil resistivity at different depths.	Each	17	5.02880%
8	Conducting Static cone penetration test	Each	4	5.28840%
9	Conducting In-situ permeability test (pumping out)	Each	2	2.55970%
10	Conducting field CBR test	Each	3	0.15940%
11	Soil sample Tests in approved laboratory			
a	Natural moisture content	Each	84	1.11560%
b	Particle size analysis			
i	Sieve analysis	Each	112	1.51460%
ii	Mechanical analysis (hydrometer)	Each	56	1.08180%
c	Index properties (liquid, plastic and shrinkage limits and plasticity index)	Each	56	0.77760%
d	Bulk and dry density	Each	56	0.74380%
e	Specific gravity and void ratio test	Each	56	0.77760%
f	Unconfined compression test	Each	56	0.50710%
g	Triaxial tests			
i	Undrained	Each	56	1.92700%
ii	Drained	Each	56	1.97770%
h	Direct shear test	Each	28	0.91280%
i	Consolidation test (odometer)	Each	28	0.99730%
j	Specific gravity of rock	Each	28	0.84520%
k	Crushing Strength of rock			
i	Soaked condition	Each	14	0.39720%
ii	Unsoaked Condition	Each	14	0.34990%
l	Chemical analysis for			
i	Soil	Each	28	4.85130%
ii	Sub soil water	Each	28	4.85130%
m	Differential free swell test	Each	28	0.93810%
n	CBR Test			
i	Soaked condition	Each	3	0.11050%
ii	Unsoaked Condition	Each	3	0.10870%
12	Preparation and submission of soil report on Geo-Technical investigations with interpretations and recommendations etc (6 hard copies & one soft copy)	LS	1	1.99220%
13	Topographical Survey			
a	Carrying out bench mark from the nearest GTS bench mark or any other available source as approved by the engineer-in-charge to different locations in the project area including clearing of jungles and/or cutting trees and any other works required for completion of the said item etc all complete as per specification and instructions of the engineer-in-charge. (Construction of bench mark pillar to be paid separately)	LS	1	7.24430%
b	Carrying out topographical survey of plant and allied areas showing all permanent & general features and detailed contour survey by taking spot levels at 25m interval, carrying out cross section of canal/nallah by taking spot levels at 5m interval or less including clearance of jungles and cutting of trees etc which are interfering with the survey works and any other field works necessary for the completion of the said item, preparation and submission of all plans (maps), reports, CD and originals etc all complete as per specification and instructions of the engineer-in- charge.	Sq.M	90,000	11.68150%
c	Construction of bench mark pillar/reference pillar/grid pillar at different locations including clearing of jungles, excavation, supply of materials, pillar marking, backfilling, white washing, painting on MS plate etc all complete as per specification, drawings and instructions of the engineer-in- charge.			
i	Bench mark pillar	Each	1	0.29340%
ii	Grid/reference pillar	Each	6	2.13680%
TOTAL ALLOCATION PERCENTAGE				100.00%