



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 02

Ref: PSER:SCT:TRL-T1732:TCN-02

Date: 31-03-2016

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| Sub | Tender change notice (TCN) 02 | |
| Job | Material handling, erection, testing, commissioning, trial run & field efficiency test of 2X30 MW vertical francis turbine generator along with its auxiliaries, excitation system, control, protection, monitoring systems including electrical/C&I systems and supply of furnitures & furnishing materials, AC, water purifier, 2 nos. 10KVA DG Set etc. at 2x30 MW Tuirial Hydro Electric Project, NEEPCO, Mizoram. | |
| Ref | 1.0 | Tender no PSER:SCT:TRL-T1732:16 |
| | 2.0 | BHEL's NIT, vide reference no PSER:SCT:TRL-T1732:4928 Date: 17-03-2016. |
| | 3.0 | BHEL's TCN-01, vide reference PSER:SCT:TRL-T1732:TCN-01, dated 29-03-2016. |
| | 4.0 | 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 Price Schedule, VOLUME-III-R-1 attached herewith superseding the Price Schedule VOLUME-III-R-0 issued earlier along with NIT. Bidder shall quote as per this revised Volume-III, Rev-1 only.
- 2.0 Clause No. 4.1 of Volume- IF, Technical Conditions of Contract (TCC) issued earlier along with TCN-01 has been revised/modified as following :

| Clause No | Revised/ modified Clause as per TCN-01 | Revised/ modified Clause of Volume-IF (TCC)/ TCN-01 |
|-----------|--|--|
| 4.1 | TIME SCHEDULE | TIME SCHEDULE |
| 4.1.1 | The entire work of material handling, erection, commissioning, testing, trial run, field efficiency test and final acceptance of all the four units as detailed in the tender document shall be completed in all respects within 33 months from the date of start of work . Date of start of work will be declared /certified by BHEL, Tuirial site depending on availability of fronts. The key contractual dates are as follow | The entire work of material handling, erection, commissioning, testing, trial run, field efficiency test and final acceptance of all the four units as detailed in the tender document shall be completed in all respects within 33 months from the date of start of work . Date of start of work will be declared /certified by BHEL, Tuirial site depending on availability of fronts. The key contractual dates are as follow |
| 4.1.1.1 | Commissioning of the 1st unit and handing over : 22 Months from date of start of work | Commissioning of the 1st unit and handing over : 22 Months from date of start of work |
| 4.1.1.2 | Commissioning of the 2nd unit and handing over: 27 Months from date of start of work | Commissioning of the 2nd unit and handing over: 27 Months from date of start of work |
| 4.1.1.3 | A suggestive bar chart is given in the tender document for reference only. The contractor shall submit detail erection programme for acceptance by BHEL within seven days of receipt of LOI. PG test, which will be carried out on both the units, on any unit shall be carried out within six months of commissioning of that particular unit. | A suggestive bar chart is given in the tender document for reference only. The contractor shall submit detail erection programme for acceptance by BHEL within seven days of receipt of LOI. PG test, which will be carried out on both the units, on any unit shall be carried out within six months of commissioning of that particular unit |
| 4.1.1.4 | The time schedules (Unit wise and total for two units) specified above in 4.1.1.1 and 4.1.1.2 shall be considered for the purpose of | The time schedules (Unit wise and total for two units) specified above in 4.1.1.1 and 4.1.1.2 shall be considered for the purpose of LD and ORC/ |

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

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| | <p>LD and ORC/ PVC. However, the Contractor at no extra cost shall put their Best Efforts so as to achieve Commissioning of Unit 1 in June 2017 and Unit 2 in September 2017 to meet the target set by NEEPCO. In case of non-readiness of the EOT Crane, erection of Unit 1 and 2 up to Spiral Casing may have to be taken up through mobile crane. The mobile crane along with its operator and fuel shall be arranged by the Contractor and its costs shall be reimbursed by BHEL at actuals against documentary evidence. Alternatively, BHEL at its discretion may provide the mobile crane along with its operator and fuel free of costs.</p> <p>In case of absence of roofing over Unit – I, the Contractor shall make necessary arrangements for construction of temporary roof cover above the present working area to avoid problem of welding in open rains and cost of such temporary roof cover shall be reimbursed by BHEL at actuals against documentary evidence. Alternatively, BHEL at its discretion may provide the same.</p> | <p>PVC. However, the Contractor at no extra cost shall put their Best Efforts so as to achieve Commissioning of Unit 1 in June 2017 and Unit 2 in September 2017 to meet the target set by NEEPCO. In case of non-readiness of the EOT Crane, erection of Unit 1 and 2 up to Spiral Casing may have to be taken up through mobile crane. The mobile crane along with its operator and fuel shall be arranged by the Contractor (as per the optional items given in the Rate Schedule) based on written confirmation on the requirement from Construction Manager,.</p> <p>In case of absence of roofing over Unit – I, the Contractor shall make necessary arrangements for construction of temporary roof cover above the present working area to avoid problem of welding in open rains (as per the optional items given in the Rate Schedule) based on written confirmation on the requirement from Construction Manager.</p> |
| 4.1.2 | Only after certification by BHEL Construction Manager, regarding adequate mobilization by Contractor, the work will start. This certified date will be treated as date of start of work at site for the purposes of the contract time schedule. | Only after certification by BHEL Construction Manager, regarding adequate mobilization by Contractor, the work will start. This certified date will be treated as date of start of work at site for the purposes of the contract time schedule |
| 4.1.3 | The contractor shall start mobilizing within 15 days from the date of intimation and complete the mobilization as required prior to start of erection as per the instruction of BHEL Construction Manager | The contractor shall start mobilizing within 15 days from the date of intimation and complete the mobilization as required prior to start of erection as per the instruction of BHEL Construction Manager. |
| 4.1.4 | The work under the scope of the contract will be deemed to be completed in all respects only when all the components /Equipment / systems (common as well as Unit linked) of all the two units are erected, Tested & commissioned trial run and Field acceptance tests conducted as per contract to the entire satisfaction of BHEL and Customer, handed over to customer for commercial operation and taking over certificate issued to BHEL by Customer for all the Units after final reconciliation of all materials and also issuance of no due certificate to BHEL by Customer . | The work under the scope of the contract will be deemed to be completed in all respects only when all the components /Equipment / systems (common as well as Unit linked) of all the two units are erected, Tested & commissioned trial run and Field acceptance tests conducted as per contract to the entire satisfaction of BHEL and Customer, handed over to customer for commercial operation and taking over certificate issued to BHEL by Customer for all the Units after final reconciliation of all materials and also issuance of no due certificate to BHEL by Customer |
| 4.1.5 | Timely completion of all the works with desired level of quality is the essence of the contract. So all out efforts should be made to complete all the activities well within time allotted in the contractually agreed work schedule. Immediately after receipt of LOI, the contractor has to submit detailed work schedule in support of his commitment for completion of the works within the Time schedule specified in this contract. Due to any reason if there is | Timely completion of all the works with desired level of quality is the essence of the contract. So all out efforts should be made to complete all the activities well within time allotted in the contractually agreed work schedule. Immediately after receipt of LOI, the contractor has to submit detailed work schedule in support of his commitment for completion of the works within the Time schedule specified in this contract. Due to any reason if there is delay in achieving any |

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| delay in achieving any intermediate milestone, the same should be compensated by all means to maintain the ultimate Targets of commissioning /handing over for each Unit. Any delay beyond total allotted time for completion will have to be compensated by way of deduction at the rate and term specified separately at clause "Liquidated Damage". | intermediate milestone, the same should be compensated by all means to maintain the ultimate Targets of commissioning /handing over for each Unit. Any delay beyond total allotted time for completion will have to be compensated by way of deduction at the rate and term specified separately at clause "Liquidated Damage". |
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- 3.0 Revised 'No deviation certificate' as per enclosed Annexure-2. Bidder shall submit no deviation certificate as per enclosed format only.
- 4.0 All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD

SR. ENGR (SCT)

Encl : As above.

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

| | | |
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| Sub | No Deviation Certificate. | |
| Job | Material handling, erection, testing, commissioning, trial run & field efficiency test of 2X30 MW vertical francis turbine generator along with its auxiliaries, excitation system, control, protection, monitoring systems including electrical/C&I systems and supply of furnitures & furnishing materials, AC, water purifier, 2 nos. 10KVA DG Set etc. at 2x30 MW Tuirial Hydro Electric Project, NEEPCO, Mizoram. | |
| Ref | 1.0 | Tender no PSER:SCT:TRL-T1732:16 |
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| | 3.0 | BHEL's TCN-01, vide reference PSER:SCT:TRL-T1732:TCN-01, dated 29-03-2016. |
| | 4.0 | BHEL's TCN-02, vide reference PSER:SCT:TRL-T1732:TCN-02, dated 31-03-2016. |
| | 5.0 | 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)

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**VOLUME-III
PRICE SCHEDULE, REV-1**

Material handling, erection, testing, commissioning, trial run & field efficiency test of 2X30 MW vertical francis turbine generator along with its auxiliaries, excitation system, control, protection, monitoring systems including electrical/C&I systems and supply of furnitures & furnishing materials, AC,water purifier,2 nos. 10KVA DG Set etc. at 2x30 MW Tuirial Hydro Electric Project, NEEPCO, Mizoram.

TENDER NO - PSER:SCT:TRL-T1732:16

PREAMBLE

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| 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 Volume-IB, ID, IE , Volume – IF and other tender sections as applicable and shall have precedence over any contrary statement mentioned any where 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 enclloaed 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 plus minus fifteen percent ($\pm 15\%$) 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 the 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. |

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| 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/ altered 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 , 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 Grand Total price shall be considered for evaluation unless stated otherwise. |
| 22 | In case of BOP packages, if Bidder does not quote/indicate the price for freight charges 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-1**

Material handling, erection, testing, commissioning, trial run & field efficiency test of 2X30 MW vertical francis turbine generator along with its auxiliaries, excitation system, control, protection, monitoring systems including electrical/C&I systems and supply of furnitures & furnishing materials, AC,water purifier,2 nos. 10KVA DG Set etc. at 2x30 MW Tuirial Hydro Electric Project, NEEPCO, Mizoram.

TENDER NO - PSER:SCT:TRL-T1732:16

SUMARY SCHEDULE

| SL NO | DESCRIPTION | AMOUNT (Rs) |
|--------------|---|--------------------|
| 1.0 | TOTAL PRICE FOR PACKAGE A | |
| 2.0 | TOTAL PRICE FOR PACKAGE-B | |
| 3.0 | TOTAL PRICE | |
| NOTE | | |
| 1.0 | Evaluation & Awarding shall be done on Total Price of Package-A & Package-B at sl no. 3.0 above. | |
| 2.0 | Please note that Total price for Package-A & Total Price for Package-B should match with their break up of their corresponding schedule . | |
| 3.0 | Total price of Sl.no. 1.0 shall not be more than 5% of the grand total price at sl. no. 3.0. | |

**VOLUME-III
PRICE SCHEDULE, REV-1
(PACKAGE-A)**

Material handling, erection, testing, commissioning, trial run & field efficiency test of 2X30 MW vertical francis turbine generator along with its auxiliaries, excitation system, control, protection, monitoring systems including electrical/C&I systems and supply of furnitures & furnishing materials, AC,water purifier,2 nos. 10KVA DG Set etc. at 2x30 MW Tuirial Hydro Electric Project, NEEPCO, Mizoram.

TENDER NO - PSER:SCT:TRL-T1732:16

RATE SCHEDULE

| SL NO | DESCRIPTION | QUANTITY | RATE (Rs) | AMOUNT (Rs) |
|------------|---|----------|-----------|-------------|
| 1.1 | Receipt/ taking delivery of materials at Tuirial HEP, unloading from Trucks / Trailers at power house stores/ work place/ Power House/ Assembly yard, shifting to Site Stores / Storage yard, Verifying, Stacking, issuing, transportation up to work place/ Power House/ Assembly yard of Hydro Turbine and Generator & Aux., C&I of Hydro Turbine & Turbo-Generator, piping, insulations, including materials which are not in the scope of E & C by contractor under Package-B, providing services for materials management as detailed in tender specifications | 1800* | MT | |
| 1.2 | Re-shifting of materials as defined in the contract specification | 300 | MT | |
| 1.3 | Re-staking of materials as defined in the contract | 100 | MT | |
| 1.4 | Providing Concrete sleepers, 1.0 M (L) x 0.25 M (W) x 0.25 M (H), required for storing/ stacking of material/ equipment above ground level | 250 | NOS | |
| 1.5 | Average single man hour rate including overtime, If any, supervision, use of required tools and tackles and other site expenses and incidentals including consumables/ preservatives for carrying out up-keepment, maintenance and preservation / Conservation works as per instruction of BHEL and as per scope given in tender specifications | 2000 | MAN HOUR | |
| 1.6 | TOTAL | | | |

NOTE

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| 1.0 | *Approximately 1100 MT material has already been unloaded, stacked and stored at site. The contractor shall get payment only for those activities performed out of total activities mentioned in "Billing schedule-Annexure-A". As for example, if activities 1, 2 and 3 are not required to be performed for 1100 MT of material, the contractor shall not get payment for the corresponding percentage given in "Billing schedule-Annexure-A" for the said tonnage of material. |
| 2.0 | Re-shifting: If during execution of work, any material which is already unloaded verified, stacked at store yard/ store/ work site as per instruction and satisfaction of BHEL site authority, need to be re-handled/ re-shifted and restacked beyond 250 mtr at any other place within project premises, all the relevant activities for above shall be termed as re-shifting and is included in the scope of work. |
| 3.0 | Re-stacking: If during execution of work, any material which is already unloaded, verified, stacked at store yard/ store/ work site as per instruction and satisfaction of BHEL site authority, need to be re-handled/ re-shifted within 250 mtr and re-stacked all the relevant activities for above shall be termed as re-stacking which is included in the scope of work. |

**VOLUME-III
PRICE SCHEDULE, REV-1
(PACKAGE-B)**

Material handling, erection, testing, commissioning, trial run & field efficiency test of 2X30 MW vertical francis turbine generator along with its auxiliaries, excitation system, control, protection, monitoring systems including electrical/C&I systems and supply of furnitures & furnishing materials, AC,water purifier,2 nos. 10KVA DG Set etc. at 2x30 MW Turrial Hydro Electric Project, NEEPCO, Mizoram.

TENDER NO - PSER:SCT:TRL-T1732:16

RATE SCHEDULE

| SL NO | DESCRIPTION | AMOUNT (Rs) |
|--------------|---|--------------------|
| 2.1 | Total Lumpsum price of Receipt of materials from BHEL stores/ open yards, protection against loss/ damage of erected equipments till handing over to customer, Erection, testing, commissioning, trial run and PG test and final acceptance by customer as per specification. This does not include the E&C of some BOPs as mentioned in the Technical Specification | |

**VOLUME-III
PRICE SCHEDULE, REV-1**

Material handling, erection, testing, commissioning, trial run & field efficiency test of 2X30 MW vertical francis turbine generator along with its auxiliaries, excitation system, control, protection, monitoring systems including electrical/C&I systems and supply of furnitures & furnishing materials, AC,water purifier,2 nos. 10KVA DG Set etc. at 2x30 MW Tuirial Hydro Electric Project, NEEPCO, Mizoram.

TENDER NO - PSER:SCT:TRL-T1732:16

RATE SCHEDULE

OPTIONAL ITEMS (NOT TO BE CONSIDERED FOR EVALUATION)

| SL NO | DESCRIPTION | QUANTITY | RATE (Rs) | AMOUNT (Rs) |
|--------------|--|----------|-----------|-------------|
| 1.0 | Providing 75 MT Tyre Mounted Mobile Crane at site with fuel and operator for assembly, erection, welding and testing of Spiral Casing with StayRing | 01 | Month | |
| 2.0 | Providing 40 MT Tyre Mounted Mobile Crane at site with fuel and operator for assembly, erection, welding and testing of Spiral Casing with StayRing | 01 | Month | |
| 3.0 | Arrangements for construction of temporary roof cover above the working area of Spiral Casing to avoid problem of welding in open rains | LS | | |
| TOTAL | | | | |
| NOTE: | | | | |
| (i) | The above quoted price shall not be considered for evaluation & awarding. However BHEL reserves the right to rationalize the rates, quoted by L-1 bidder against optional items with respect to item-wise lowest rates (amongst the participating bidders), before placement of order. | | | |