



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN – 01

Ref: PSER:SCT:RKL-E1771:TCN-01

Date: 14-10-2016

Sub	Tender change notice (TCN) 01	
Job	Procurement, Supply, Erection, Testing, Commissioning, Operation & Maintenance (O&M), Etc Related With Misc. Construction Power Work For 1x250 MW , PP-II EXPANSION, NSPCL, ROURKELA, ODISHA.	
Ref	1.0	Tender No. PSER:SCT: RKL-E1771:16
	2.0	BHEL's NIT, vide reference no PSER:SCT:RKL:E1771:16:5243 Date: 23-09-2016
	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 Due date of submission of offer is extended **from 14/10/16 to 21/10/16.**
- 2.0 **Revised BOQ cum price schedule format VOL-III- PRICE SCHEDULE, REV-01 superseding VOL-III PRICE SCHEDULE, REV-00 issued earlier along with NIT.**
Bidders are requested to submit their offer as per revised BOQ (Rev-01) only. Offer from bidders in superseded price schedule (Vol-III, REV-00) shall not be considered. 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 (VOL-III- PRICE SCHEDULE, REV-01).
- 3.0 Unpriced Schedule (REV-01) (to be duly filled up indicating '**QUOTED**' against each item by the bidder) which is to be uploaded alongwith technocommercial bid is attached herewith.
- 4.0 Revised 'No deviation certificate' as per enclosed Annexure-2. Bidder shall submit no deviation certificate as per enclosed format only.
- 5.0 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	Procurement, Supply, Erection, Testing, Commissioning, Operation & Maintenance (O&M), Etc Related With Misc. Construction Power Work For 1x250 MW , PP-II EXPANSION, NSPCL, ROURKELA, ODISHA.	
Ref	1.0	Tender No. PSER:SCT: RKL-E1771:16
	2.0	BHEL's NIT, vide reference no PSER:SCT:RKL:E1771:16:5243 Date: 23-09-2016
	3.0	BHEL's TCN-01, vide reference no PSER:SCT:RKL:E1771:TCN-01 , dated 14/10/16
	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

फैक्स/Fax : (033) 23211960

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

VOLUME-III PRICE SCHEDULE, REV-01	
JOB: Procurement, Supply, Erection, Testing, Commissioning, Operation & Maintenance (O&M), Etc Related With Misc. Construction Power Work For 1x250 MW , PP-II EXPANSION, NSPCL, ROURKELA, ODISHA.	
TENDER NO - PSER:SCT:RKL-E1771:16	
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 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 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 thirty 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 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/ 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, 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 GRAND 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.
NAME & PLACE OF BIDDER (TO BE FILLED BY THE BIDDER) :	

VOLUME-III PRICE SCHEDULE, REV-01		
JOB: PROCUREMENT, SUPPLY, ERECTION, TESTING, COMMISSIONING, OPERATION & MAINTENANCE (O&M), ETC RELATED WITH MISC. CONSTRUCTION POWER WORK FOR 1x250 MW , PP-II EXPANSION, NSPCL, ROURKLEA, ODISHA.		
TENDER NO : PSER:SCT: RKL-E1771:16.		
SCH-I-TOTAL PRICE		
SL.NO	DESCRIPTION OF WORK	TOTAL PRICE (in Rs.)
1.0	Total price for supply and service (Installation & commissioning) of items of Construction Power including operation & maintenance (one electrician & one helper each in three shifts per day) as detailed in the tender specifications and as per direction of BHEL.	
NOTE		
1.0	Bidder shall quote total price for entire scope of work 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-R01 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 total price should be complete in all respect for the full scope defined and considering all terms and conditions.	
3.0	Bidder to note that percentage break-up of above total price into supply part, service part, O&M part are frozen and indicated in SCH-2. Base on this break-up and further break-up in subsequent schedules, separate orders will be placed for (i) Main supply; (ii) Main service; and (iii) Operation & maintenance (O&M) as per respective price components.	
4.0	Bidder to note that SCH-III covers supply price break-up of respective items, unless specified otherwise in the description of items.	
5.0	Bidder to note that SCH-IV covers service price break-up of respective items, unless specified otherwise in the description of items.	
6.0	Bidder to note that SCH-V covers O&M price break-up, unless specified otherwise in the description of items.	
7.0	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.	
8.0	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.	
9.0	Successful bidder shall draw a schedule of quantities of various items of work of SCH-3 and obtain BHEL's approval/ clearance in writing before procurement, supply, etc.	
10.0	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.	
11.0	Price format shall not be changed by bidder in any case and it may lead to cancellation of their offer.	
12.0	Based on mode of finalisation of contract (Either through Reverse Auction or price bid opening, followed by negotiation, if any, while absolute price may change, percentage allocation as per the price schedule shall remain unchanged.	
	NAME OF BIDDER(TO BE FILLED BY BIDDER)	

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

JOB: PROCUREMENT, SUPPLY, ERECTION, TESTING, COMMISSIONING, OPERATION & MAINTENANCE (O&M), ETC RELATED WITH MISC. CONSTRUCTION POWER WORK FOR 1x250 MW , PP-II EXPANSION, NSPCL, ROURKLA, ODISHA.

TENDER NO : PSER:SCT: RKL-E1771:16

SCH-II-TOTAL PRICE BREAK-UP

SL NO	DESCRIPTION OF ITEM	WEIGHTAGE W.R.T THE TOTAL AMOUNT (in %).
1.0	Total price for Supply items of Construction Power network as detailed in the tender and as per direction of BHEL.	33.25
2.0	Total price for Service (Installation & commissioning) items of Construction Power network as detailed in the tender and as per direction of BHEL.	39.29
3.0	Total price for operation & maintenance (one electrician & one helper each in three shifts per day) of entire construction power system as detailed in the tender and as per direction of BHEL.	27.46
TOTAL PRICE (1.0+2.0+3.0)		100.00

NOTE

1.0 Bidder to note broad percentage break-up prices at sl no 1.0 (Main supply, main service, and O&M) in SCH-I as per above.

	NAME OF BIDDER(TO BE FILLED BY BIDDER)	
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**VOLUME-III
PRICE SCHEDULE, REV-01**

**JOB: PROCUREMENT, SUPPLY, ERECTION, TESTING, COMMISSIONING, OPERATION & MAINTENANCE (O&M), ETC RELATED WITH
MISC. CONSTRUCTION POWER WORK FOR 1x250 MW , PP-II EXPANSION, NSPCL, ROURKLEA, ODISHA.**

TENDER NO : PSER:SCT: RKL-E1771:16

SCH-III-SUPPLY PRICE BREAK-UP

SL NO	DESCRIPTION OF ITEM	QUANTITY	ALLOCATION OF TOTAL PRICE (IN PERCENT)
BREAK-UP OF SUPPLY PRICE (SL. NO. 1.0 OF SCH-II)			
1.0	15 mm GI pipe(Gr. B) for protection of earth wire	100 MTR	0.6975
2.0	Earthwire size 6.09 mm dia. GI wire	100 MTR	0.0978
3.0	GI strip size 25 x 3 mm for earthing.	100 MTR	0.2483
4.0	GI pipe (Gr-B) 75 mm dia	20 MTR	0.1775
5.0	GI pipe (Gr-B) 150 mm dia	20 MTR	0.7345
6.0	LT danger notice plate of size 250 x 200 x 2 mm thick, made of MS plate painted with vitreous enamelled white on both side and inscription in red colour on front side as required.	30 NO	0.2473
7.0	2x400W with lamp,control gear and all accessories.Model:Bajaj Equivalent of BJEF22CA.Approved makes Bajaj/Phillips/Crompton/GE(sodium vapour lamps)	10 NO	5.0598
8.0	1x400W with lamp,control gear and all accessories.Model:Bajaj Equivalent of BJEF15S.Approved makes Bajaj/Phillips/Crompton/GE (sodium vapour lamps)	10 NO	2.5299
9.0	Supply of straight through joint kit for 1.1 KV (LT) cables.		

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

**JOB: PROCUREMENT, SUPPLY, ERECTION, TESTING, COMMISSIONING, OPERATION & MAINTENANCE (O&M), ETC RELATED WITH
MISC. CONSTRUCTION POWER WORK FOR 1x250 MW , PP-II EXPANSION, NSPCL, ROURKLEA, ODISHA.**

TENDER NO : PSER:SCT: RKL-E1771:16

SCH-III-SUPPLY PRICE BREAK-UP

SL NO	DESCRIPTION OF ITEM	QUANTITY	ALLOCATION OF TOTAL PRICE (IN PERCENT)
BREAK-UP OF SUPPLY PRICE (SL. NO. 1.0 OF SCH-II)			
9.1	3.5C x 120 sqmm. Cable	5 NO	0.3051
9.2	3.5C x 95 sqmm. Cable	5 NO	0.2790
9.3	4 C x 25 sqmm cable	10 NO	0.1849
10.0	Supply of 200 amps indoor 415V 3 ph 4 wire type TPN wall mounted busbar with Incoming 250 A isolator & 5 nos outgoing main switch - 63 A complete with all wiring & terminations, mounting frames etc.	2 NO	1.6884
11.0	Supply of MCB distibution board with sheet metal enclosure & front cover , outdoor type,incomming 100 amps TPN MCB , outgoing 6 nos. 32 amps TPN complete with internal Bus Bar.	5 NO	2.5817
12.0	PVC insulated LT cable,3.5C X 120 sq mm	400 MTR	23.4603
13.0	PVC insulated LT cable,3.5C X 95 sq mm	500 MTR	10.5149

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

**JOB: PROCUREMENT, SUPPLY, ERECTION, TESTING, COMMISSIONING, OPERATION & MAINTENANCE (O&M), ETC RELATED WITH
MISC. CONSTRUCTION POWER WORK FOR 1x250 MW , PP-II EXPANSION, NSPCL, ROURKLEA, ODISHA.**

TENDER NO : PSER:SCT: RKL-E1771:16

SCH-III-SUPPLY PRICE BREAK-UP

SL NO	DESCRIPTION OF ITEM	QUANTITY	ALLOCATION OF TOTAL PRICE (IN PERCENT)
BREAK-UP OF SUPPLY PRICE (SL. NO. 1.0 OF SCH-II)			
14.0	PVC insulated LT cable,4C X 25 sq mm	2000 MTR	42.9049
15.0	Supply of sheet metal iron clad Bus Bar chamber on angle iron frame duly painted on wall with 4 Al bars (25mm X 5mmX 600 mm) 500V , with adequate nos. of holes drilled for connection of incomming & outgoing ckts. Bars are fixed on porclain insulators including supply of required hardwares for connection, fitted with DANGER board all complete.	8 NO	6.6729
16.0	400W HPSV lamp (SON-T) Approved makes Bajaj/Phillips/Crompton/GE	40 NO	1.0785
17.0	Supply of 40 mm dia (OD) GI pipe for fitting of lumineries.	40 MTR	0.5368
TOTAL SUPPLY PRICE (SCH-III)			100.00

NOTE	
1.0	While break-up of main supply price (33.25%) w.r.t. total price is frozen in SCH-II. Further break-up of main supply price (100%) into various supply components is frozen as per above SCH-III.
	NAME OF BIDDER(TO BE FILLED BY BIDDER)

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

JOB: PROCUREMENT, SUPPLY, ERECTION, TESTING, COMMISSIONING, OPERATION & MAINTENANCE (O&M), ETC RELATED WITH MISC. CONSTRUCTION POWER WORK FOR 1x250 MW , PP-II EXPANSION, NSPCL, ROURKLEA, ODISHA.

TENDER NO : PSER:SCT: RKL-E1771:16

SCH-IV-SERVICE PRICE BREAK-UP

SL NO	DESCRIPTION OF ITEM	QUANTITY	ALLOCATION OF TOTAL PRICE (IN PERCENT)
BREAK-UP OF SERVICE PRICE (SL. NO. 2.0 OF SCH-II)			
1.0	15 mm GI pipe for protection of earth wire lead to earth electrode with suitable clamping arrangement and hardware.	100 MTR	0.1922
2.0	Earthwire, 6.09 mm dia, including supply of clamps, cleats, etc.	100 MTR	0.0179
3.0	GI strip size 25 x 3 mm (including welding, etc & supply of matching hardwares like nut, bolts, washers, etc) for earthing.	100 MTR	0.4560
4.0	Laying of 3.5C x 120 sqmm, 1.1 KV grade PVC LT cable, which includes excavation of trench in all kind of soil, laying below ground providing sand layer below/ above the cable, brick lining both side & above the cable, back filling, cable marker, as per specification.	400 MTR	9.5136
5.0	Laying of 3.5C x 95 sqmm 1.1 KV grade PVC LT cable, which includes excavation of trench in all kind of soil, laying below ground providing sand layer below/ above the cable, brick lining both side & above the cable, back filling and cable marker, as per specification.	500 MTR	11.8920
6.0	Laying of 4C x 25 sqmm 1.1 KV grade PVC LT cable, which includes excavation of trench in all kind of soil, laying below ground providing sand layer below/ above the cable, brick lining both side & above the cable, back filling and cable marker, as per specification.	2000 MTR	47.5678

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

**JOB: PROCUREMENT, SUPPLY, ERECTION, TESTING, COMMISSIONING, OPERATION & MAINTENANCE (O&M), ETC RELATED WITH MISC.
CONSTRUCTION POWER WORK FOR 1x250 MW , PP-II EXPANSION, NSPCL, ROURKLEA, ODISHA.**

TENDER NO : PSER:SCT: RKL-E1771:16

SCH-IV-SERVICE PRICE BREAK-UP

SL NO	DESCRIPTION OF ITEM	QUANTITY	ALLOCATION OF TOTAL PRICE (IN PERCENT)
BREAK-UP OF SERVICE PRICE (SL. NO. 2.0 OF SCH-II)			
7.0	Termination of 3.5C x 120 sqmm Al armoured cable including glanding, drilling the hole in gland plate & making termination with double compression cable gland and Al lugs for 3.5C x 120 sqmm Al armoured cable .	6 NO	0.4364
8.0	Termination of 3.5C x 95 sqmm Al armoured cable including glanding, drilling the hole in gland plate & making termination with double compression cable gland and Al lugs for 3.5C x 120 sqmm Al armoured cable .	6 NO	0.0805
9.0	Termination of 4C x 25 sqmm Al armoured cable including glanding, drilling the hole in gland plate & making termination with double compression cable gland and Al lugs for 4C x25 sqmm Al armoured cable.	20 NO	0.1931
10.0	Fixing of LT danger notice plate on Charged Equipment of size 250 x 200 x 2 mm thick, made of MS plate painted with vitreous enamelled white on both side and inscription in red colour on front side as required.	30 NO	0.0469
11.0	Erection of 30 m high lighting mast including supply of foundation bolt etc. (Excluding associated Civil works)	4 NO	15.0214
12.0	Installation of sheet metal iron clad Bus Bar chamber on angle iron frame duly painted on wall with 4 Al bars (25mm X 5mmX 600 mm) 500V , with adequate nos. of holes drilled for connection of incoming & outgoing ckt. Bars are fixed on porcelain insulators including supply of required hardwares for connection, fitted with DANGER board all complete.	8 NO	1.7525

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

**JOB: PROCUREMENT, SUPPLY, ERECTION, TESTING, COMMISSIONING, OPERATION & MAINTENANCE (O&M), ETC RELATED WITH MISC.
CONSTRUCTION POWER WORK FOR 1x250 MW , PP-II EXPANSION, NSPCL, ROURKLEA, ODISHA.**

TENDER NO : PSER:SCT: RKL-E1771:16

SCH-IV-SERVICE PRICE BREAK-UP

SL NO	DESCRIPTION OF ITEM	QUANTITY	ALLOCATION OF TOTAL PRICE (IN PERCENT)
BREAK-UP OF SERVICE PRICE (SL. NO. 2.0 OF SCH-II)			
13.0	Erection & Commissioning of 200 amps indoor 415V 3 ph 4 wire type TPN wall mounted busbar with Incoming 250 A isolator & 5 nos outgoing main switch - 63 A complete with all wiring & terminations, mounting frames etc.	2 NO	0.2673
14.0	Erection & Commissioning of MCB distribution board with sheet metal enclosure & front cover , outdoor type,incomming 100 amps TPN MCB , outgoing 6 nos. 32 amps TPN complete with internal Bus Bar.	5 NO	0.2235
15.0	Supply & making the earth pit as per IS:3043 including earth/ massonary work (size of electrode 50 mm dia, GI pipe, 3 m long, class 'B'). Pit shall be filled with alternative layer of charcoal & salt. GI pipe shall be with funnel with wire mesh for watering, mansony block CI cover coplete as per IS. All the earth pits are to be inter connectecd with GI strip of size 50 x 6 mm including supply of all material.	20 NO	11.2660
16.0	Erection of straight thru joint kit for 1.1 KV (LT) cables.		
16.1	3-1/ 2 core cables, 120 sqmm.	5 NO	0.2682
16.2	3-1/ 2 core cables, 95 sqmm.	5 NO	0.2682

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

**JOB: PROCUREMENT, SUPPLY, ERECTION, TESTING, COMMISSIONING, OPERATION & MAINTENANCE (O&M), ETC RELATED WITH MISC.
CONSTRUCTION POWER WORK FOR 1x250 MW , PP-II EXPANSION, NSPCL, ROURKLEA, ODISHA.**

TENDER NO : PSER:SCT: RKL-E1771:16

SCH-IV-SERVICE PRICE BREAK-UP

SL NO	DESCRIPTION OF ITEM	QUANTITY	ALLOCATION OF TOTAL PRICE (IN PERCENT)
BREAK-UP OF SERVICE PRICE (SL. NO. 2.0 OF SCH-II)			
16.3	4 core cables, 25 sqmm.	10	0.5365
TOTAL SERVICE PRICE (SCH-IV)			100.00

NOTE	
1.0	While break-up of main service price (39.29%) w.r.t. total price is frozen in SCH-II. Further break-up of main service price (100%) into various service components is frozen as per above SCH-IV.
NAME OF BIDDER(TO BE FILLED BY BIDDER)	

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

JOB: PROCUREMENT, SUPPLY, ERECTION, TESTING, COMMISSIONING, OPERATION & MAINTENANCE (O&M), ETC RELATED WITH MISC. CONSTRUCTION POWER WORK FOR 1x250 MW , PP-II EXPANSION, NSPCL, ROURKLEA, ODISHA.

TENDER NO : PSER:SCT: RKL-E1771:16.

SCH-V-OPERATION & MAINTENANCE

SL NO	DESCRIPTION OF ITEM	QUANTITY		ALLOCATION OF TOTAL PRICE (IN PERCENT)
BREAK-UP OF O&M PRICE (SL. NO. 3.0 OF SCH-II)				
1.0	Total price for operation & maintenance (one electrician & one helper each in three shifts per day) of entire construction power system as detailed in the tender and as per direction of BHEL.	26	MONTH	100.00

NOTE	
1.0	Total amount shall correspond to sl no 3.0 (27.46%)of SCH-II.
	NAME OF BIDDER(TO BE FILLED BY BIDDER)

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

JOB: Procurement, Supply, Erection, Testing, Commissioning, Operation & Maintenance (O&M), Etc Related With Misc. Construction Power Work For 1x250 MW , PP-II EXPANSION, NSPCL, ROURKELA, ODISHA.

TENDER NO - PSER:SCT:RKL-E1771:16

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 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 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 thirty 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 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/ 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, 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 GRAND 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.

NAME & PLACE OF BIDDER (TO BE FILLED BY THE BIDDER) :

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TENDER NO : PSER:SCT: RKL-E1771:16.		
SCH-I-TOTAL PRICE		
SL.NO	DESCRIPTION OF WORK	TOTAL PRICE (in Rs.)
1.0	Total price for supply and service (Installation & commissioning) of items of Construction Power including operation & maintenance (one electrician & one helper each in three shifts per day) as detailed in the tender specifications and as per direction of BHEL.	
NOTE		
1.0	Bidder shall quote total price for entire scope of work 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-R01 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 total price should be complete in all respect for the full scope defined and considering all terms and conditions.	
3.0	Bidder to note that percentage break-up of above total price into supply part, service part, O&M part are frozen and indicated in SCH-2. Base on this break-up and further break-up in subsequent schedules, separate orders will be placed for (i) Main supply; (ii) Main service; and (iii) Operation & maintenance (O&M) as per respective price components.	
4.0	Bidder to note that SCH-III covers supply price break-up of respective items, unless specified otherwise in the description of items.	
5.0	Bidder to note that SCH-IV covers service price break-up of respective items, unless specified otherwise in the description of items.	
6.0	Bidder to note that SCH-V covers O&M price break-up, unless specified otherwise in the description of items.	
7.0	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.	
8.0	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.	
9.0	Successful bidder shall draw a schedule of quantities of various items of work of SCH-3 and obtain BHEL's approval/ clearance in writing before procurement, supply, etc.	
10.0	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.	
11.0	Price format shall not be changed by bidder in any case and it may lead to cancellation of their offer.	
12.0	Based on mode of finalisation of contract (Either through Reverse Auction or price bid opening, followed by negotiation, if any, while absolute price may change, percentage allocation as per the price schedule shall remain unchanged.	
	NAME OF BIDDER(TO BE FILLED BY BIDDER)	

TOTAL PRICE

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SIGN AND SEAL OF BIDDER

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TENDER NO : PSER:SCT: RKL-E1771:16

SCH-II-TOTAL PRICE BREAK-UP

SL NO	DESCRIPTION OF ITEM	WEIGHTAGE W.R.T THE TOTAL AMOUNT (in %).
1.0	Lumpsum price for Supply items of Construction Power network as detailed in the tender and as per direction of BHEL.	33.25
2.0	Lumpsum price for Service (Installation & commissioning) items of Construction Power network as detailed in the tender and as per direction of BHEL.	39.29
3.0	Lumpsum price for operation & maintenance (one electrician & one helper each in three shifts per day) of entire construction power system as detailed in the tender and as per direction of BHEL.	27.46
TOTAL PRICE (1.0+2.0+3.0)		100.00

NOTE

1.0	Bidder to note broad percentage break-up prices at sl no 1.0 (Main supply, main service, and O&M) in SCH-I as per above.	
	NAME OF BIDDER(TO BE FILLED BY BIDDER)	

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TENDER NO : PSER:SCT: RKL-E1771:16

SCH-III-SUPPLY PRICE BREAK-UP

SL NO	DESCRIPTION OF ITEM	QUANTITY	ALLOCATION OF TOTAL PRICE (IN PERCENT)
BREAK-UP OF SUPPLY PRICE (SL. NO. 1.0 OF SCH-II)			
1.0	15 mm GI pipe(Gr. B) for protection of earth wire	100 MTR	0.6975
2.0	Earthwire size 6.09 mm dia. GI wire	100 MTR	0.0978
3.0	GI strip size 25 x 3 mm for earthing.	100 MTR	0.2483
4.0	GI pipe (Gr-B) 75 mm dia	20 MTR	0.1775
5.0	GI pipe (Gr-B) 150 mm dia	20 MTR	0.7345
6.0	LT danger notice plate of size 250 x 200 x 2 mm thick, made of MS plate painted with vitreous enamelled white on both side and inscription in red colour on front side as required.	30 NO	0.2473
7.0	2x400W with lamp,control gear and all accessories.Model:Bajaj Equivalent of BJEF22CA.Approved makes Bajaj/Phillips/Crompton/GE(sodium vapour lamps)	10 NO	5.0598
8.0	1x400W with lamp,control gear and all accessories.Model:Bajaj Equivalent of BJEF15S.Approved makes Bajaj/Phillips/Crompton/GE (sodium vapour lamps)	10 NO	2.5299
9.0	Supply of straight through joint kit for 1.1 KV (LT) cables.		

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MISC. CONSTRUCTION POWER WORK FOR 1x250 MW , PP-II EXPANSION, NSPCL, ROURKLEA, ODISHA.**

TENDER NO : PSER:SCT: RKL-E1771:16

SCH-III-SUPPLY PRICE BREAK-UP

SL NO	DESCRIPTION OF ITEM	QUANTITY	ALLOCATION OF TOTAL PRICE (IN PERCENT)
BREAK-UP OF SUPPLY PRICE (SL. NO. 1.0 OF SCH-II)			
9.1	3.5C x 120 sqmm. Cable	5 NO	0.3051
9.2	3.5C x 95 sqmm. Cable	5 NO	0.2790
9.3	4 C x 25 sqmm cable	10 NO	0.1849
10.0	Supply of 200 amps indoor 415V 3 ph 4 wire type TPN wall mounted busbar with Incoming 250 A isolator & 5 nos outgoing main switch - 63 A complete with all wiring & terminations, mounting frames etc.	2 NO	1.6884
11.0	Supply of MCB distibution board with sheet metal enclosure & front cover , outdoor type,incomming 100 amps TPN MCB , outgoing 6 nos. 32 amps TPN complete with internal Bus Bar.	5 NO	2.5817
12.0	PVC insulated LT cable,3.5C X 120 sq mm	400 MTR	23.4603
13.0	PVC insulated LT cable,3.5C X 95 sq mm	500 MTR	10.5149

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TENDER NO : PSER:SCT: RKL-E1771:16

SCH-III-SUPPLY PRICE BREAK-UP

SL NO	DESCRIPTION OF ITEM	QUANTITY	ALLOCATION OF TOTAL PRICE (IN PERCENT)
BREAK-UP OF SUPPLY PRICE (SL. NO. 1.0 OF SCH-II)			
14.0	PVC insulated LT cable,4C X 25 sq mm	2000 MTR	42.9049
15.0	Supply of sheet metal iron clad Bus Bar chamber on angle iron frame duly painted on wall with 4 Al bars (25mm X 5mmX 600 mm) 500V , with adequate nos. of holes drilled for connection of incomming & outgoing ckts. Bars are fixed on porclain insulators including supply of required hardwares for connection, fitted with DANGER board all complete.	8 NO	6.6729
16.0	400W HPSV lamp (SON-T) Approved makes Bajaj/Phillips/Crompton/GE	40 NO	1.0785
17.0	Supply of 40 mm dia (OD) GI pipe for fitting of lumineries.	40 MTR	0.5368
TOTAL SUPPLY PRICE (SCH-III)			100.00

NOTE	
1.0	While break-up of main supply price (33.25%) w.r.t. total price is frozen in SCH-II. Further break-up of main supply price (100%) into various supply components is frozen as per above SCH-III.
	NAME OF BIDDER(TO BE FILLED BY BIDDER)

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TENDER NO : PSER:SCT: RKL-E1771:16

SCH-IV-SERVICE PRICE BREAK-UP

SL NO	DESCRIPTION OF ITEM	QUANTITY	ALLOCATION OF TOTAL PRICE (IN PERCENT)
BREAK-UP OF SERVICE PRICE (SL. NO. 2.0 OF SCH-II)			
1.0	15 mm GI pipe for protection of earth wire lead to earth electrode with suitable clamping arrangement and hardware.	100 MTR	0.1922
2.0	Earthwire, 6.09 mm dia, including supply of clamps, cleats, etc.	100 MTR	0.0179
3.0	GI strip size 25 x 3 mm (including welding, etc & supply of matching hardwares like nut, bolts, washers, etc) for earthing.	100 MTR	0.4560
4.0	Laying of 3.5C x 120 sqmm, 1.1 KV grade PVC LT cable, which includes excavation of trench in all kind of soil, laying below ground providing sand layer below/ above the cable, brick lining both side & above the cable, back filling, cable marker, as per specification.	400 MTR	9.5136
5.0	Laying of 3.5C x 95 sqmm 1.1 KV grade PVC LT cable, which includes excavation of trench in all kind of soil, laying below ground providing sand layer below/ above the cable, brick lining both side & above the cable, back filling and cable marker, as per specification.	500 MTR	11.8920
6.0	Laying of 4C x 25 sqmm 1.1 KV grade PVC LT cable, which includes excavation of trench in all kind of soil, laying below ground providing sand layer below/ above the cable, brick lining both side & above the cable, back filling and cable marker, as per specification.	2000 MTR	47.5678

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TENDER NO : PSER:SCT: RKL-E1771:16

SCH-IV-SERVICE PRICE BREAK-UP

SL NO	DESCRIPTION OF ITEM	QUANTITY	ALLOCATION OF TOTAL PRICE (IN PERCENT)
BREAK-UP OF SERVICE PRICE (SL. NO. 2.0 OF SCH-II)			
7.0	Termination of 3.5C x 120 sqmm Al armoured cable including glanding, drilling the hole in gland plate & making termination with double compression cable gland and Al lugs for 3.5C x 120 sqmm Al armoured cable .	6 NO	0.4364
8.0	Termination of 3.5C x 95 sqmm Al armoured cable including glanding, drilling the hole in gland plate & making termination with double compression cable gland and Al lugs for 3.5C x 120 sqmm Al armoured cable .	6 NO	0.0805
9.0	Termination of 4C x 25 sqmm Al armoured cable including glanding, drilling the hole in gland plate & making termination with double compression cable gland and Al lugs for 4C x25 sqmm Al armoured cable.	20 NO	0.1931
10.0	Fixing of LT danger notice plate on Charged Equipment of size 250 x 200 x 2 mm thick, made of MS plate painted with vitreous enamelled white on both side and inscription in red colour on front side as required.	30 NO	0.0469
11.0	Erection of 30 m high lighting mast including supply of foundation bolt etc. (Excluding associated Civil works)	4 NO	15.0214

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TENDER NO : PSER:SCT: RKL-E1771:16

SCH-IV-SERVICE PRICE BREAK-UP

SL NO	DESCRIPTION OF ITEM	QUANTITY	ALLOCATION OF TOTAL PRICE (IN PERCENT)
BREAK-UP OF SERVICE PRICE (SL. NO. 2.0 OF SCH-II)			
12.0	Installation of sheet metal iron clad Bus Bar chamber on angle iron frame duly painted on wall with 4 Al bars (25mm X 5mmX 600 mm) 500V , with adequate nos. of holes drilled for connection of incomming & outgoing ckts. Bars are fixed on porcelain insulators including supply of required hardwares for connection, fitted with DANGER board all complete.	8 NO	1.7525
13.0	Erection & Commissioning of 200 amps indoor 415V 3 ph 4 wire type TPN wall mounted busbar with Incoming 250 A isolator & 5 nos outgoing main switch - 63 A complete with all wiring & terminations, mounting frames etc.	2 NO	0.2673
14.0	Erection & Commissioning of MCB distibution board with sheet metal enclosure & front cover , outdoor type,incomming 100 amps TPN MCB , outgoing 6 nos. 32 amps TPN complete with internal Bus Bar.	5 NO	0.2235
15.0	Supply & making the earth pit as per IS:3043 including earth/ massonary work (size of electrode 50 mm dia, GI pipe, 3 m long, class 'B'). Pit shall be filled with alternative layer of charcoal & salt. GI pipe shall be with funnel with wire mesh for watering, mansony block CI cover coplete as per IS. All the earth pits are to be inter connectecd with GI strip of size 50 x 6 mm including supply of all material.	20 NO	11.2660
16.0	Erection of straight thru joint kit for 1.1 KV (LT) cables.		

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SCH-IV-SERVICE PRICE BREAK-UP

SL NO	DESCRIPTION OF ITEM	QUANTITY	ALLOCATION OF TOTAL PRICE (IN PERCENT)
BREAK-UP OF SERVICE PRICE (SL. NO. 2.0 OF SCH-II)			
16.1	3-1/ 2 core cables, 120 sqmm.	5 NO	0.2682
16.2	3-1/ 2 core cables, 95 sqmm.	5 NO	0.2682
16.3	4 core cables, 25 sqmm.	10	0.5365
TOTAL SERVICE PRICE (SCH-IV)			100.00

NOTE	
1.0	While break-up of main service price (39.29%) w.r.t. total price is frozen in SCH-II. Further break-up of main service price (100%) into various service components is frozen as per above SCH-IV.
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TENDER NO : PSER:SCT: RKL-E1771:16.

SCH-V-OPERATION & MAINTENANCE

SL NO	DESCRIPTION OF ITEM	QUANTITY		ALLOCATION OF TOTAL PRICE (IN PERCENT)
BREAK-UP OF O&M PRICE (SL. NO. 3.0 OF SCH-II)				
1.0	Lumpsum price for operation & maintenance (one electrician & one helper each in three shifts per day) of entire construction power system as detailed in the tender and as per direction of BHEL.	26	MONTH	100.00

NOTE	
1.0	Total amount shall correspond to sl no 3.0 (27.46%)of SCH-II.
	NAME OF BIDDER(TO BE FILLED BY BIDDER)