



प्लाज़्मा संशोधन संस्था

निकट इन्दिरा पुल, भाट, गांधीनगर 382 428 (भारत)

प्लाज़्मा अनुसंधान संस्थान

निकट इन्दिरा पुल, भाट, गांधीनगर 382 428, (भारत)

INSTITUTE FOR PLASMA RESEARCH

NEAR INDIRA BRIDGE, BHAT, GANDHINAGAR 382 428, (INDIA)

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**Servicing and Repair of
37.5 MVA 132 / 11.5kV
Transformer including
Dismantling, Shifting,
Loading / Unloading and
Transportation
From IPR to Vendor's Site
and Back to IPR.**

**Scope, Terms and Conditions
and
Technical and Price Bids
(PART - I & II)**

**Due on
(March 07, 2008)**

Tender No. IPR/ST/TN-03/07-08

Date : 03/02/2008.

TENDER DOCUMENT – CONTENTS

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INSTITUTE FOR PLASMA RESEARCH

Near Indira Bridge, Gandhinagar Highway Bhat, Dist. Gandhinagar – 382 428.
Gujarat State Tel. : 23962000 Fax : 2396 2277

TENDER NOTICE No. IPR/ST/TN-03/07-08 dated 03/02/2008

Sealed tenders are invited for the servicing, repairing and retrofitting of one number 37.5MVA, 132/11.5 KV damaged transformer including To and Fro transportation, dismantling, re tanking, oil filling, testing, erection and commissioning in two parts (Parts-I Technical Bid & Part-II Commercial Bid) from bidders who meet the following criteria :-

Eligibility Criteria :-

- (1) Bidder shall have manufactured 30 MVA (or higher), 110 KV or 132 KV (or above) class at least one power transformer in past 3 years.
- (2) Bidder shall have own manufacturing facility / factory upto 30 / 37.5 MVA with necessary cranes, vacuum oven (of size 3 M Length, 3 M Breadth, and height 3 M. or to fit 37.5 MVA power transformer) and testing facilities.
- (3) The party should carry out the job at their own works where such facilities are available.

Interested vendors/bidders satisfying the above mentioned three eligibility criteria may obtain Tender Documents and submit the same as detailed below :

Tender No.	Tender Fee	EMD	Date by with request for TD must be received	Date of Opening	Time of Opening
IPR/ST/TN/03/07-08	Rs.200.00	Rs.1,00,000.00	12/02/2008 (*)	07/03/2008	3.00 PM

(*) IMPORTANT NOTE :

- (1) Tender documents shall be issued on 13/02/2008 for request received upto 12/02/2008 alongwith Tender Fee by Demand Draft / Pay Order / Banker's Cheque drawn in favour of Institute for Plasma Research and payable at Ahmedabad.
- (2) Issue of Tender documents does not mean prequalification. Pre-qualification as per tender criteria will precede scrutiny of technical bids.
- (3) Subsequent to 13/02/2008, tender documents shall be available only at our website (address given below).

Completed Tenders in a sealed envelope marking Tender No., Date, Due Date and Brief Description of tendered work on the top of envelope along with EMD by Demand Draft / Pay Order / Banker's Cheque drawn in favour of Institute for Plasma Research and payable at Ahmedabad should be submitted to the Stores Incharge at the above address by the 07/03/2008 at 1.00 PM. Tenders so received shall be opened on the same day at the time mentioned above in the presence of attending vendors.

Tender documents will be made available on IPR website <http://www.ipr.res.in/purchasetenders.html> interested parties meeting our eligibility criteria may at their option, download the tender documents from IPR website and submit it along with the requisite Tender Fee and EMD as stated above. The Director, IPR reserves the right to accept or reject any or all tender in part or full without assigning any reason thereof.

MANDATORY ELIGIBILITY CONDITIONS

ELIGIBILITY CONDITIONS :

1. Bidder shall have manufactured 30 MVA (or higher), 110 KV or 132 KV (or above) class at least one power transformer in past 3 years.
2. Bidder shall have own manufacturing facility / factory upto 30 / 37.5 MVA with necessary cranes, vacuum oven (of size 3 M Length, 3 M Breadth, and height 3 M. or to fit 37.5 MVA power transformer) and testing facilities.
3. Bidder should carry out the job at their own works where the facilities stated against point number (2) above are available.

Annexure-III

GENERAL TERMS AND CONDITIONS

TENDER NOTICE No.IPR/ST/TN-03/07-08 dated 03/02/2008

Servicing and Repair of 37.5 MVA 132 / 11.5kV Transformer including Dismantling, Shifting, Loading/Unloading, Transportation to the works of the vendor's site and returning the same to IPR site.

1. Full details and specifications of the items and general instructions to be followed regarding submission of tenders are indicated in the tender documents.
2. Tender documents can be obtained by submitting a written request to the Stores Incharge together with prescribed tender fee of **Rs.200.00**. Last date for issue of Tender documents is **12/02/2008**.
3. The request for Tender Documents shall indicate **"REQUEST FOR TENDER DOCUMENTS AGAINST TENDER NOTICE NO.IPR/ST/TN-03/2007 DATED 03/02/2008"**.
4. The tender fees (non refundable) as stated in serial number 2 above should be submitted by **DEMAND DRAFT from any nationalised bank drawn in favour of Institute for Plasma Research and payable at Ahmedabad**. Vendor's name and tender number shall be indicated on the reverse side of the Demand Draft.
5. Those who use the downloaded tender documents from IPR Website may submit the prescribed Tender Fee keeping in a separate envelope along with their tender.
6. **Tenders received without the prescribed tender fee will be rejected.**
7. No request for the extension of due date shall be considered.
8. Late/Delayed offers will not be accepted.
9. Tenders consisting of Part I (Technical) and Part II (Price Bid) separately in a sealed envelopes superscribing the envelope with the above tender no., date, due date and brief description of tendered item *along with* EMD for Rs.1,00,000.00 by Demand Draft in favour of **Institute for Plasma Research** and payable at **Ahmedabad** shall be submitted to the *Stores Incharge* at the above address by 1.00 p.m. on **07/03/2008**. Tenders received upto 1.00 p.m. on 07/03/2008 shall be opened on the same day at **3.00 p.m.** in the presence of attending tenderers.
10. **DD for both tender fee and EMD should not be prior to the date of this Tender Notice.** Tenders received without the details asked for and EMD may be rejected.
11. EMD of the vendors whose bid is not accepted shall be returned only after finalizing the Contract and placing Work order. No interim queries in this regard would be entertained.
12. In the event of any date indicated above is a declared Holiday, the next working day shall become operative for the respective purpose mentioned herein.
13. **IPR will not be responsible for any delay/loss of documents in transit.**
14. Vendors submitting the tender should confirm the terms and conditions attached with the tender by signing and returning the same as a token of having accepted all our terms.
15. The tender and any order resulting from this tender/enquiry shall be governed by the Terms and Conditions given in this Document and supplier submitting tender shall be deemed to have read and understood the same in toto.

16. Where counter terms and conditions have been offered by the tenderers the same shall not be deemed to have been accepted by us, unless our specific written acceptance thereof is obtained.
17. Any technical and commercial questions, information, clarifications, etc. that may be required pertaining to this Tender/enquiry may be obtained from us before submitting the tender.
18. Bids shall be complete in all respects and shall include properly filled in prices, other specifications, schedules, etc. as necessary along with the bid covering letter, all in duplicate.
19. **Tender :** Your Tender superscribing our tender/enquiry No., date, due date and short description of item should be submitted to the Stores Incharge, IPR in a sealed envelope on or before the due date. Envelopes received without Enquiry number, date, due date and short description of item may be rejected.
20. Tenders should be free from Correction and Erasures. Corrections, if any, must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail.
21. The quoted prices should be firm for a period of 120 days from due date for placing order. IPR is not bound to accept lowest rate/s. IPR also reserves the right to place order on one or more parties irrespective of whether he is lowest or not.
22. **Terms of prices :** The quoted price shall be firm, fixed and non-revisable during the validity/extended validity of purchase order/contract.
23. Prices are to be quoted strictly according to the units indicated in the tender form. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.
24. Wherever options are specified in the tender documents, IPR reserves the right to accept any option/s irrespective of whether all the vendors have quoted for all the options or not. The decision of IPR in this regard will be final.
25. IPR shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender.
26. **Sales Tax etc. :** We have no "C" or "D" form. The percentage of sales-tax, surcharge, if applicable, and other levies legally leviable and intended to be claimed should be clearly indicated in the tender. Where this is not done, no claim on these accounts would be admissible later.
27. **VAT Registration:** You may submit a copy of VAT Registration certificate along with your quotation (if applicable).
28. **Service Tax:** Wherever Service tax is applicable, it should be mentioned clearly. You may indicate percentage of Service Tax in your quotation. The service tax registration number may be mentioned in the quotation.
29. **Invoices :** The vendor shall submit invoices in duplicate. The payment would be based on the service reports received at the Stores.
30. **Payment:** Payment will be made within 30 days from the date of completion of satisfactory work. Wherever, advance payment is involved, it may be considered only against Bank Guarantee from Nationalised/Scheduled Bank.
31. **Transportation :** Transportation shall be arranged by you.
32. **Insurance :** Transit Insurance will be arranged by IPR. In case insurance of our transformer is not covered by you while it is in your works during its repair it will have to be arranged by us. Kindly clarify the same in your offer so that a separate insurance for that period can be arranged by us.

33. **Termination of Contract** : The contract may be terminated provided :
- a. The service of the vendor is not satisfactory and the vendor fails to fulfill the work related requirement.
34. **Jurisdiction**: The contract/Work Order shall be governed by the relevant Laws of the country for the time being in force. The Courts of Ahmedabad only shall have jurisdiction to deal with and decide any legal implications or dispute arising out of this contract.
35. **Settlement of disputes**: Any disputes or difference arising out of or in connection with this Contract / Work Order shall, to the extent possible, be settled amicably between the parties to this Contract / Work Order.
36. If amicable settlement cannot be reached then all disputed issues shall be settled by arbitration.
37. **Arbitration**: In the event of any dispute or difference arising under this Contract, the matter shall be referred to the Arbitrators one each nominated by the Purchaser and Contractor from their respective organisations. In case the said Arbitrators are not able to settle the dispute by themselves, the matter shall be referred to the Arbitrator mutually nominated by the Purchaser and the Contractor and whose decision will be final and binding on both the parties. The venue of arbitration will be IPR. Subject to as aforesaid the Arbitration Act, 1940 and the rules thereunder and any statutory modification thereof for the time being in force shall be deemed to apply to the Arbitration proceedings under this Contract.
38. Late/delayed tenders will not be accepted. Incomplete tenders may be rejected at the discretion of IPR.
39. **IPR is not bound to accept the lowest tender. IPR reserves the right to select any vendor at its sole discretion.**
40. **Result of the tenders**: Unsuccessful tenderers will not be informed of the result of their tenders.
41. The Director, IPR reserves the right to accept or reject any offer in full or part without assigning any reason thereof.

We agree to the above terms and conditions.

Place:

Signature of Bidder with seal

Date:

Note: A copy of our terms and conditions duly signed should accompany your quotation.

EQUIPMENT DETAILS**Nameplate details of transformer:**

Rating MVA 37.5 MVA ONAN
Short time rating 200 % (75 MVA)
HV 132 KV (line to line)
LV 11.5 (line to line)
Rated current HV 164 A
Rated current LV 1882.6 A
Phases 3/3

Standard IS 2026 -1977
% Impedance 10.2 %
Tapings +5, - 10 %

HV tapings: 138.6(156.2A), 136.95, 135.30, 133.65, **132.0(164 A)**, 130.35,128.7, 127.050, 125.40, 123.75,
122.100, 120.45, 118.8 (**182.2 A**)
LV: 11.50 KV fixed.(line to line)
Taps: on load (OLTC with diverter switch)

Vector group delta/ star n 11
HV delta, LV star
Year of manufacturing: 1992
Make: NGEF Bangalore
Insulation level HV 650/ 275 KV
Insulation level LV 28/75.

Other information's:
37.5 MVA, 132/ 11 .5 KV, OLTC +5 to 15 %, delta / star n
Iron loss 27 KW
Copper loss 165 kw, Z% 11.5 %
Weight of core 21,200 kg
Weight of oil 24,120 Kg
Weight of copper LV 3300 kg
Weight of copper HV 4300 kg
Weight of copper tap1 400 kg, +tap2 = 600 kg
Turns: HV 1414, 1572 nominal
Turns: LV 79.
(Note above data's are approximate, only for information)

Total mass 84 tons
Un tanking mass 40 tons
Insulating oil 24.12 tons (27500 liters)
Transport mass 66.2 tons

ANNEXURE - V

Scope of Work:

The 132/11.5 KV, 37.5 MVA oil filled transformer has been failed after the service of 14 years on HV side, an observations shows that the HV connections below HV bushings has come in touch with the tank and fault with LG an LL subsequently large current on transformer lead to tripping and pressure built up operated the pressure relief valve and also explosion vent out. Tanks seen minor crake at lead level height on HV side. Oil drained out up to this level. .

This transformer has to be repaired serviced and put into the operations. For this work to quote by the party, we are considering 3 following options, as we do not know the level of damage and exact work to be done by the party.

Scope 1 shall be complete work of repair serving, overhauling, transport, painting, fitting replacement of oil, replacement of bushings, testing, erection commissioning, site testing etc.

Scope 2 shall be complete of Scope 1 and replacements of one HV main HV tapings and one LV windings with new copper and insulations

Scope 3 shall be Scope 1 and replacement of all three HV main HV tapings and LV windings with insulations etc.

Testing :

In the case of option 1 & option 2 all the routine tests with 75 % dielectric HV tests on HV and LV. In case of option 3, all the windings to be replaced by new design and new copper the taping ranges to be changed to + 7.5 % to – 7.5 % and secondary voltage to be fixed at 11.2 KV. 132 KV shall be normal tap and range shall be 141.9 KV to 122.10 KV at normal tap the rating is 37.5 MVA (164 A). In this case testing shall be as per new transformer, the full test as per IS.

Guarantee :

In case of service, only servicing parts to be guaranteed. In case of winding replacement in full, the performance guarantee shall be given as per new transformer practice. In this case, please give guarantee as 24 months from delivery and 18 month from commissioning which ever falls early.

Bidder shall give their company profile and also give the similar work under taken in past. Give details on 30 MVA Transformer delivered. Bidder shall confirm all the scope of work mentioned here. Any variation or any extra work is to be mentioned.

Bidder shall give the rate as per format given here attached in **annex. VI-A-B-C-D**.

Nameplate details of transformer:

Rating MVA 37.5 MVA ONAN
Short time rating 200 % (75 MVA)
HV 132 KV (line to line)
LV 11.5 (line to line)
Rated current HV 164 A
Rated current LV 1882.6 A
Phases 3/3

Standard IS 2026 -1977
% Impedance 10.2 %
Tapings +5, - 10 %

HV tapings: 138.6(156.2A), 136.95, 135.30, 133.65, **132.0(164 A)**, 130.35,128.7, 127.050, 125.40, 123.75, 122.100, 120.45, 118.8 (**182.2 A**)
LV: 11.50 KV fixed.(line to line)
Taps: on load (OLTC with diverter switch)

Vector group delta/ star n 11
HV delta, LV star
Year of manufacturing: 1992
Make: NGEF Bangalore
Insulation level HV 650/ 275 KV
Insulation level LV 28/75.

Other information's:
37.5 MVA, 132/ 11 .5 KV, OLTC +5 to 15 %, delta / star n
Iron loss 27 KW
Copper loss 165 kw, Z% 11.5 %
Weight of core 21,200 kg
Weight of oil 24,120 Kg
Weight of copper LV 3300 kg
Weight of copper HV 4300 kg
Weight of copper tap1 400 kg, +tap2 = 600 kg
Turns: HV 1414, 1572 nominal
Turns: LV 79.
(Note above data's are approximate, only for information)

Total mass 84 tons
Un tanking mass 40 tons
Insulating oil 24.12 tons (27500 liters)
Transport mass 66.2 tons

Dismantling and transport :

The HV side bushing, tanks radiators LV connections pipe fitting and accessories to be removed. The blanking plate in place of ht bushing to be fabricated and put on the tank wherever required. Control cables for transformer protections as well as OLTC to be removed.

Oils:

New transformer oils as per IS 335 to be supplied and filled. The rates on unit rate basis to be given for the supply as well as scrap oil, which were already filled. Old oils are to be kept by the party. But the quantities of new oils and scrap oils may not be the same so the unit rate shall be applicable. Total new oil quantity is 29000 liters and old quantity is 15000 Liters approximately.

Installation, erection and commissioning :

After the successful testing at factory transformer with all the accessories to be transported back at IPR site and installed at the same place. All the accessories to be fitted, HV/ LV terminals are to be connected. Control cable to be connected, OLTC drive to be connected. Pre commissioning tests with control relays to be done. And transformer to be made ready for the 132 KV charging.

Please see the site for the more details and exact scope of work at IPR -132 KV Sub-station bay -2.

Completion schedule

Work to be completed in 3 Months in case no windings are to be replaced.
Work to be completed in 6 Months in case winding are to be replaced.
(From the date of taking out from IPR)

Paintings

All the outer parts of the transformer and accessories like radiators, tanks, fittings, pipes etc are to be cleaned and painted by suitable transformer grade paint of similar shade. The remaining items which are left to site also to be painted.

Stages of work to be covered as below (these are only major work)

1. **Dismantling:** dismantling to be done of accessories like pipes, radiators, conservator tank, 132 kV jumper connections, 11 kV side cable and duct connections etc.
2. Covering: the opening in face of radiators, bushing blank plate to be made by bidder and fitted.
3. Control cable. All the control cables like transformer protections and OLTC drive box cables to be marked and removed.
4. Moving/ dragging/ loading: the transformer to be moved up to the loading and loaded to trailer.
5. **Insurance:** the job has to be insured during handling at Factory for the entire period for the value of 1.5 crore. If it is not included it may be clarified in the tender to enable us separate insurance cover.
6. Transport: the transformer with required accessory to be transported to factory.
7. Unloading / opening: the job has to be unloaded to inside the factory bay and active mass to be opened for inspection.
8. Finding fault: finding fault and assessment to be done with necessary tests.
9. Detailed report: report to be made as MOU regarding the status and action of repair or replacement of windings and component which were damaged with the consultation of client.
10. Client approval: In case winding to be replaced, client shall give the approval.
11. Servicing: (not considering winding replacement) After the fault analysis the work schedule to be made. The entire gasket to be replaced. Tank to be cleaned. Re insulation to be done as required. Cleaning tightening are to be done as required. Active mass to be made ready for the vacuum drying.
12. Tank repair: the portion to be removed and new plate to be welded as required.
13. New windings: New windings to be re design for 132 kV class / 11 kV class transformers. Secondary voltage to be kept as 11.2 KV
14. **Time schedule:** for the each work time schedule to be given, like preparation of windings, tanking, testing etc.
15. Oil filling: New transformer oil to be filled as per IS.
16. Testing: all the routine tests as per IS to be tested
17. Transport back. It has to be brought back to site.
18. Re installation / commissioning: it has to be re installed as the same place, all the accessories to be fitted. 132 kv jumper connection, 11 kv side cable connections are to be done. Control cables have to be reconnected.
19. **Site testing:** all the protection relays related to protection of transformer like differential, REF, O/c, EF, by primary and secondary injection to be done. And transformer is to be made ready for the 132 KV charging.

PART - I

TECHNICAL BID

(To be filled and submitted along with the PRICE BID in a separate cover)

Sr. No.	Particulars	Submission
1.	Eligibility Criteria 1 Bidder shall have manufactured 30 MVA (or higher), 110 KV or 132 KV (or above) class at least one power transformer in past 3 years.	Please submit proof in support of this
2.	Eligibility Criteria 2 Bidder shall have own manufacturing facility / factory upto 30 / 37.5 MVA with necessary cranes, vacuum oven (of size 3 M Length, 3 M Breadth, and height 3 M. or to fit 37.5 MVA power transformer) and testing facilities	Please submit proof in support of this
3.	Eligibility Criteria 3 Bidder shall carry out the job at their own works where such facilities are available	Please submit proof in support of this

PART - II PRICE BID

(To be filled and submitted along with the tender in separate cover)

Schedule A-I: Supply (Compulsory Scope)

Sr. No	Scope of work/ supply	Quantity	Unit rate	Total Rate
1	Supply of HV bushings 145 kV, 800 A, 650 kVpk as suitable	3 units		
2	Supply of LV & neutral bushings, 12 kV, 2000 A, 75 kVpk as suitable	4 units		
3	Supply of transformer auxiliaries: a) Buchholz Relay b) MOG c) Pressure Switch, d) Pressure Relief Device	1 unit 1 unit 1 unit 1 unit		
4	Dial type thermometer with alarm & trip contact for the following: a. Winding Temperature b. Oil Temperature	1 unit 1 unit		
5	Supply of New Oil as per IS 335 (EHV Grade) including top up oil for site filling as required (in sealed drums), in lieu of old oil (as is available in the tank) (Approx.)	29,000 liters		
6	Rebate on old oil (Approx. estimated)	15,000 liters		
7	Sub total part A-I (A1)			

Schedule A-II: Repairs and Service with associated materials and those supplied vide Schedule A-I above (Compulsory Scope)

Sr. No	Scope of work/ supply	Quantity	Rate
1.	Disconnection of HV & LV bushings opening, untanking of active part, cleaning, inspection, disconnection of HV & LV windings, minor testing, inspection and assessment of the faults	Lump sum	
2.	Tanks repair, cracked tanks plates to removed and re-welding with virgin plate of suitable size and strength	Lump sum	
3.	Overhauling of OLTC	Lump sum	
4.	Servicing/ repair / overhauling of transformer considering no replacement of windings including any insulating and structural and fastening material required like paper board, disc, hardware, etc.	Lump sum	
5.	Replacement of entire gasket providing new insulation between phases and tank, angular washers boards etc.	Lump sum	
6.	Repainting of total transformer with accessories	Lump sum	
7.	Tank test for the pressure and vacuum withstand		
8.	Replacement of old all hardwares	Lump sum	
9.	Vacuum and oven drying at 700 mm Hg and 65 to 85 deg C	Lump sum	
10.	Tanking and fitting of accessories like bushings, etc. and oil filling by new oil and circulation and making ready for testing	Lump sum	
11.	Routine testing as per IS 2026	Lump sum	
12.	Any others		
13.	Sub total part A-II (A2)		

Note : Transit Insurance shall be arranged by IPR. In case insurance of our transformer is not covered while it is under repair at your shop it may be clarified in the tender to enable IPR to arrange for the same.

Schedule A-III: Dismantling, Shifting, Loading, Transportation, Erection & Commissioning (Compulsory Scope)

Sr. No.	Scope of work/ supply	Quantity	Rate
1.	Dismantling at site	Lump sum	
2.	Shifting & loading from transformer plinth to trailer both ways (despatch to works and on receipt after repairs) at site	Lump sum	
3.	Transport with accessories (from IPR to Factory to IPR back) without transit insurance (Transit Insurance will be taken by IPR)	Lump sum	
4.	Erection, Connecting control and power cables, oil topping and circulation, site testing including ratio, megger, magnetic balance, stability balance for differential, neutral CT REF test & other relays and Commissioning	Lump sum	
5.	Sub total part A-III (A3)		

Total of A1+A2+A3 (A)	
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Schedule B: Replacement of windings (in case required) (To be decided after untanking)

Sr. No.	Scope of work/ supply	Quantity	Unit rate	Rate considering one phase	Rate considering 3 phases
1.	Supply of new copper with insulation and replacement of HV main winding in lieu of old coils	1/3 nos.			
2.	Supply of new copper with insulation and replacement of HV tapping winding in lieu of old coils	1/3 nos.			
3.	Supply of new copper with insulation and replacement of LV main winding in lieu of old coils	1/3 nos.			
4.	Replace of condensers rings insulation pressboards complete assembly which are not mention in part A	Lump sum			
5.	In case any extra materials required on OLTC, which may be seen after opening, please indicate additional cost, if any	Lump sum			
6.	Sub total Schedule B/per phase (B1)				
7.	Sub total Schedule B/three phases (B3)				

Summary of Price Bid

Sr. no	Scope of work/ supply	Total Rate
1	Total A (compulsory scope)	
2	Total B1 (for 1 phase) (additional scope)	
3	Total B3 for (3 phase) (additional scope)	
4	Total of A+B1	
5.	Total of A+B3	

Place/ date

Sign and stamp by the party