## NATIONAL COUNCIL OF SCIENCE MUSEUMS SECTOR-V, BLOCK-GN, BIDHANNAGAR, KOLKATA: 700 091.

#### NOTICE INVITING E-TENDER

#### TENDER NO. I-18012/10/18(90)

On-line digitally signed e-tenders (limited) are invited for fabrication, supply and Installation of Auditorium of Shri Chaitanya Mahaprabhu Museum, at Goudiya Mission, Kolkata strictly as per the Council's drawing and specifications. Vendors who have the capability of executing the order may download the Tender Papers from Central Public Procurement Portal (CPPP): <a href="http://eprocure.gov.in/eprocure/app">http://eprocure.gov.in/eprocure/app</a>or from Council's websitewww.ncsm.gov.in as per the following schedule:-

Published Date	June 23, 2018
Bid Document Download Start Date	June 23, 2018
Bid Document Download End Date	July 10, 2018
Bid Submission Start Date	June 23, 2018
Bid Submission End Date	July 10, 2018 (upto 12 pm)
Technical (Techno-Commercial) Bid Opening Date	July 11, 2018 (at 12 pm)
Financial Bid opening Date	July 11, 2018 (at 3:00 pm)
Earnest Money	INR 50,000 (Rupees fifty thousand only)

The on-line bid along with the Earnest Money Deposit of INR 50,000 in the form of scanned copy of the Demand Draft/Pay Order should be uploaded by the due date and time as per the above schedule. No tender will be accepted without requisite EMD. The original EMD in the form of Demand Draft/Pay Order shall be submitted by the bidder to this office either before or at the time of tender opening. The on-line bids will be opened on the scheduled date and time prescribed above. Bidders may be present during opening of tenders, if so desire. Off-line tenders shall not be accepted and no request in this regard will be entertained whatsoever. NCSM reserves the right to accept or reject any or all tenders in full or in part without assigning any reason whatsoever.

### **General Information and Instructions**

- 1. The instruction given herein will be strictly binding on the tenderers and deviation, if any will make the tender or tenders liable to be considered invalid. <u>Tenders incorporating additional conditions by the tenderer are liable for rejection</u>.
- 2. Before submitting the tender, the tenderers shall examine carefully the technical specifications for fabrication, supply and Installation of Auditorium of Shri Chaitanya Mahaprabhu Museum, at Goudiya Mission, Kolkata as per the Technical specifications enclosed with the tender of the National Council of Science Museums, Kolkata.
- **3.** Bids shall be submitted online only at CPPP website: <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> Manual bids shall not be accepted.
- **4.** The instruction given in "Annexure-A" for "Instruction for Online Bid Submission" should be strictly followed during submission of the Bid.
- **5.** Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 6. Bid should be submitted along with the Earnest Money of Rs. 50,000/- (Rupees fifty thousand only) by way of crossed Demand Draft/Pay Order on any nationalized bank of India payable in favour of "NATIONAL COUNCIL OF SCIENCE MUSEUMS, KOLKATA". Earnest Money deposit in the form of Bank Guarantee bond or any other bond shall not be accepted and shall be rejected straightway. Earnest Money deposits in respect of such offers which are not accepted will be returned to the Bidders within 30 working days from the date on which the final decision is taken about the source from which the items under tender are to be procured or within 2 (two) months from the date of the opening of the tenders, whichever is earlier. Earnest Money deposit in respect of the successful bidders will be retained with the Council until entire execution of the order as per terms of the tender. If the successful bidder fails to execute the order strictly as per the Council's drawing & specification in full or part within the stipulated delivery period of the purchase order, the Earnest Money deposit retained with the Council shall be forfeited forthwith after cancellation of the concerned order. No interest will be paid on the Earnest Money deposited with the Council.
- 7. Validity of Bids: The Bids should remain valid for 180 days from the date of bid opening.
- 8. **Rejection of Bids:** Canvassing by the Bidder in any form, unsolicited letter and post-tender correction may invoke summary rejection. Conditional tenders will be rejected. Non-compliance of applicable General Information and Instruction will disqualify the Bid.
- **9.** The tenderers should have Digital Signature Certificate (DSC) for filling up the Bids. The Person signing the tender documents should be authorized for submitting the on line e-tender.
- **10.** The Financial Bid (BOQ) shall be filled in and signed by the authorized signatory online as per Proforma **"Annexure-E"** available at Central Public Procurement Portal e-tender system website <a href="http://eprocure.gov.in/eprocure/app">http://eprocure.gov.in/eprocure/app</a>. Off line Financial Bid shall not be accepted.
- 11. Tender must be uploaded in two separate covers marked Cover-1 and Cover-2. The contents of Cover-1 and Cover-2 will be as follows:-

#### Cover-1

- i) Scanned copy of General Terms & Conditions as detailed in **Annexure-B** duly signed by the authorised signatory with official stamp as a token of acceptance of the Terms & Conditions.
- ii) Copy of the current and valid Trade License and Dealership Certificate, as applicable, duly signed by the authorised signatory with official stamp.
- iii) Scanned Copy of the current and valid GST Registration Certificate indicating GST number duly signed by the authorized signatory with official stamp.(Please note that Provisional GST Registration certificate is also acceptable for the time being)
- iv) Scanned copy of credentials of past experience in such business for last 5 years.
- v) Scanned copy of documentary evidence regarding execution of latest contract of similar nature and magnitude of minimum single value of 20 lakh.
- vi) The scanned copy of the Demand Draft/Pay Order for Rs.50,000/- (Rupees fifty thousand only) as Earnest Money Deposit .
- vii) The 'Declaration' of the bidder( as detailed in **Annexure-C**) duly signed by the authorized signatory with official stamp.
- viii) Technical(Techno-Commerical) bid as per "Annexure-D" format duly filled in and signed by the authorised signatory with official stamp.
- ix) Scanned copies of the Council's 'Drawings & Technical Specification' (as detailed in **Annexure-F**) duly signed by the authorized signatory with official stamp as a token of acceptance for supply & installation of materials in accordance to the same.

## Cover-2

The Financial Bid (as per **Annexure-E** format) i.e. Schedule of Price Bid in the form of attached BOQ Proforma shall be duly filled in, digitally signed and uploaded online by the bidder.

The Cover-1, i.e. Technical (Techno-Commercial)Bid shall be opened by the Council at the first instance and evaluated by the competent authority of the Council. At the second stage, the Cover-2 containing Financial Bid of only techno-commercially acceptable offers shall be opened for further evaluation and ranking before awarding the contract.

12. The authorities of National Council of Science Museums, who does not bind themselves to accept the lowest tender, reserves the right to reject or accept any or all tenders wholly or partially without assigning and reason whatsoever.

## NATIONAL COUNCIL OF SCIENCE MUSEUMS SECTOR-V, BLOCK-GN, BIDHANNAGAR, KOLKATA – 700 091.

TENDER No.: I-18012/10/18(90)

#### **Instructions for Online Bid Submission**

- 1. The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.
- 2. More information useful for submitting online bids on the CPP Portal may be obtained at <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a>

#### REGISTRATION

- 1) Bidders are required to enrol on the e-Procurement module of the Central Public Procurement Portal (URL: <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a>) by clicking on the link "Online bidder Enrolment" on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

#### **SEARCHING FOR TENDER DOCUMENTS**

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

## PREPARATION OF BIDS

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.

- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

#### SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as "offline" to pay the tender fee/EMD as applicable and enter detail of the instrument.
- 4) Bidder should submit the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the Tender Processing Section, latest by the last date of bid submission. The detail of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 5) A standard Price Schedule format (BOQ) has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
- 6) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 9) Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 10) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

## **ASSISTANCE TO BIDDERS**

- 1. Any enquiries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2. Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal helpdesk. The contact number for the helpdesk is 1800 233 7315.

\*\*\*\*\*\*\*\*\*

# NATIONAL COUNCIL OF SCIENCE MUSEUMS SECTOR-V, BLOCK-GN, BIDHANNAGAR, KOLKATA: 700 091.

**TENDER No.: I-18012/10/18(90)** 

GENERAL TERMS & CONDITIONS (GTC) FOR SUBMISSION OF TENDER FOR FABRICATION, SUPPLY AND INSTALLATION OF AUDITORIUM OF SHRI CHAITANYA MAHAPRABHU MUSEUMS, AT GOUDIYA MISSION, KOLKATA STRICTLY AS PER ENCLOSED DRAWING AND TECHNICAL SPECIFICATIONS.

01. Bidders should have necessary infrastructure and facilities so as to take up the job of fabrication, supply and installation of the tendered items strictly as per council's specifications and drawings with required financial capability.

### 02. Price:

The prices and rates indicated/quoted shall be inclusive of cost of materials, fabrication, supply and Installation of Auditorium of Shri Chaitanya Mahaprabhu Museum, at Goudiya Mission, Kolkata. The rate of GST and any other taxes/levies to be imposed on the rate shall be clearly mentioned. Prices and rate quoted shall be firm and fixed for the entire period of execution of the order and no escalation of rate on any ground whatsoever shall be applicable.

- 03. The successful bidders shall submit the following documents within 7(Seven) days from the date of Placement of the order:-
  - Duplicate copy of the order duly signed and stamped as a token of acceptance of the order.

### 04. Delivery Schedule:

## 45 days from the date of placement of order.

Time is the essence of this tender. Fabrication, supply & installation of Auditorium as per council'sdrawing &specifications, shall be made at Sri Chaitanya Museum, Gaudya Mission, Kolkata strictly within **45(forty-five)** days from the date of placement of the order. For non-compliance of the terms and non-delivery of the tendered items, complete in all respects within the above stipulated delivery period, the Council shall have the right to cancel the order and the decision in this regard taken by the Council shall be final and binding on the successful bidder.

However, the Council may extend the time of delivery of the ordered items at their discretion on the application of the successful tenderer for such purpose provided that the Council considers the reason for such extension as goods, sufficient and acceptable.

## 05. Penalty Clause:-

The time allowed for executing the fabrication, supply and installation job as detailed in Clause No.04 shall be strictly observed by the successful bidder. The successful bidder shall pay to the Council, an amount equal to 1% of the amount of the contract value for every week that the supply may remain incomplete as per delivery schedule as stipulated in Clause No.04 subject to a maximum compensation of 10% of the contract value after which period, action will be taken by the Council as will deem fit.

The Council may extend the time of delivery of the ordered items at their discretion on the application of the successful bidder for such purpose provided that the Council considers the reasons for such extension as good, sufficient and acceptable.

## 6. Earnest Money Deposit(EMD):

The earnest Money deposit(EMD) of Rs.50, 000/- (Rupees fifty thousand only) to be submitted by the way of Demand Draft on any Nationalized Bank , payable in favour of "NATIONAL COUNCIL OF SCIENCE MUSEUMS'. The original Demand Draft must reach this office before the opening date of Part-II (Price Bid). In the event of any tenderer's tender being accepted, Earnest Money deposit(EMD) in form of Bank Guarantee/Bond or any other instrument shall not be accepted and shall be rejected straightway. Earnest Money Deposit (EMD) in respect of such offers which are not accepted will be returned to the Bidders within 30 working days from the date on which the final decision is taken about the source from which the fabrication job to be done or within 2 (two) months from the date of the opening of tenders, whichever is earlier. Earnest Money Deposit in respect of the successful bidder will be retained with the Council as Security Deposit until entire execution of the Purchase Order strictly as per terms of the tender. In case of failure to execute the order in full or part within the stipulated delivery period of the order or failure to adhere any of the terms & conditions of the Purchase Order, the Earnest Money deposit/Security Deposit retained with the Council shall be forfeited forthwith after cancellation of the concerned Purchase Order. No interest will be paid on the Earnest Money Deposit with the Council.

## 7. Security Deposit during Defect Liability Period:

- (a) In the event of successful tenderer, 10% of the tendered/contract value shall be deposited as Security Deposit for 1 (one) year from the date of actual completion of the work.
- (b) Earnest Money Deposit of Rs. 50,000/- submitted along with tender shall be converted into Security Deposit. The balance amount of the Security Deposit, i.e. ( 10% of the contract value Rs. 50,000.00 ) shall be deducted from the Bill for a period of 12 (twelve) months from the date of actual completion of work. The contractor shall be liable to replace/ repair any defects in fabrication and installation work that may be noticed within the Defect Liability Period, free of cost.
- 8. Income Tax and GST (if required) shall be deducted at source, from each bill/claim of the firm as per prevailing Government rules.

### 9. Inspection:

The successful tenderer shall arrange for inspection of the job by the competent authorities of the Council at every stage of work as per following detail:

- i) Fabrication of exhibit cabinets strictly as per drawings and technical specifications of the Council shall be completed preferably at site within 15(fifteen) days from the date of receipt of the order.
- ii) Fabrication and installation of the Exhibit Cabinets including all auxiliary job as per drawings and technical specifications of the Council shall be completed within 30(thirty) days from the date of receipt of the order.
- ii) Finishing of all the Exhibit Cabinets strictly as per drawings and technical specifications of the Council including removal of all tools and tackles, unused raw materials, scrap materials etc. shall be completed within 45 (forty-five) days from the date of receipt of the order.

Inspection may also be made at any point of time during the process of fabrication and installation work, if felt by the competent authority of the Council. Any defect pointed out during such inspections has to be promptly rectified to ensure desired quality of work. It would be mandatory on the part of the successful tenderer to arrange inspection and obtain approval at every stage of the work as detailed above, failing which action shall be taken as will deem fit by the Council. The decision of the Council in this regard shall be final and binding on the successful tenderer.

#### 10. Payment terms:-

No advance payment shall be made by the Council on any circumstances. Payment shall only be released within 30 (thirty) working days from the date of receipt of Invoice/Bill(supplies covered under of clause No.04) duly supported by receipted challan subject to satisfactory inspection report of the ordered materials issued by the competent authority of the Council.

### 11. Warranty:

Manufacturers' Standard warranty certificate shall be provided along with the bill/invoice. The bidder shall be responsible for all defects of materials including defective workmanship, use of defective materials etc. for the entire warranty period of the manufacturer effective from the date of final acceptance of the ordered materials.

The contractor shall be liable to replace/repair any defects in fabrication and installation work that may be noticed within the warranty period.

- 12. If it is noticed that the goods supplied do not conform to the specification of the order, the Council shall have the right to reject the materials in part or full. The supplier shall be liable to replace the rejected materials within the stipulated time. Till the replacement is done, the rejected materials shall be lying at the risk, cost and responsibility of the supplier. If the supplier do not arrange to replace the rejected materials within the stipulated time, the same may be disposed off at the risk of the supplier and in the manner which the Council will deem fit. The Council shall be entitled to retain the proceeds of the disposal either in part or in full towards expenses incurred on storage, handling and disposal of the materials. The Council shall also be entitled to recover the expenses made by them on account of storage & handling of such rejected goods till the goods are removed from the premises of the Council.
- 13. The authorities of the National Council of Science Museums reserves the right to amend, alter or modify the terms & condition mentioned above if necessary from time to time.
- 14. The authorities of National Council of Science Museums, who does not bind themselves to accept the lowest tender, reserves the right to reject or accept any or all tenders wholly or partially without assigning and reason whatsoever.
- 15. The quantities specified in the tender may be decreased or increased at the sole discretion of NCSM authorities.
- 16. Validity of Bids: The Bids should remain valid for 180 days from the date of bid opening.
- 17. All disputes and differences between the successful bidder and the Council of any kind except quality of workmanship and materials whatever arising out of or in connection with the order on carrying out the supply (whether during the progress of the work or after their completion and whether before or after the determination, abandonment or breach of the Terms & conditions of the order) shall be referred to the sole arbitration of a person nominated by the Director General, National Council of Science Museums, whose decision in this regard will be final and binding on both the successful bidder and the Council.

The provisions of the Arbitration and Reconciliation Act 1996 or any statutory modification or re-enactment thereof and of the rules made there under for the time being in force shall apply to arbitration's proceedings under this Clause.

\*\*\*\*\*\*\*\*\*\*\*

### **ANNEXURE-C**

# NATIONAL COUNCIL OF SCIENCE MUSEUMS SECTOR-V, BLOCK-GN, BIDHANNAGAR KOLKATA: 700 091.

TENDER No. I-18012/10/18(90)

#### **DECLARATION**

We do hereby accept the "General Terms & Conditions" as provided by the National Council of Science Museums along with the Tender documents for Fabrication, Supply and Installation of Auditorium of Shri Chaitanya Mahaprabhu Museum, at Goudiya Mission, Kolkata and also under take to supply thesaid materials strictly as per Drawing and Technical Specifications of National Council of Science Museums asprovided along with the tender documents, in the event of placement of any order on us. The Council shall be at liberty to cancel the order in full or part, in the event of failure of the above declaration made by us.

Signature of the Bidder / Constituted Attorney.

# NATIONAL COUNCIL OF SCIENCE MUSEUMS SECTOR-V, BLOCK-GN, BIDHANNAGAR, KOLKATA – 700 091.

**TENDER No.: I-18012/10/18(90)** 

# TECHNICAL (Techno-Commercial) BID

Notes: ALL PARTICULARS / INFORMATIONS SHOULD BE GIVEN IN THE FOLLOWING FORMAT WITH COMPLETE DETAILS.

01.	Name & Address of the Firm/Bidder	:
02.	Telephone Number Office	:
	Workshop	:
03.	i) Back ground details of the firm (State whether original manufacturer/direct dealer of the manufacturer).	:
04.	Past experience in such business for last 3 years giving details of established clients especially Government offices. Submit satisfactory certificate issued by such clients and Government offices.	:
05.	i) Whether capable to execute the forfabrication, supply & installation of Auditorium of Shri Chaitanya Mahaprabhu Museum, at Goudiya Mission Kolkata strictly as per enclosed drawing and technical specification. (Please mention 'YES' or 'NO')	:
	<ul> <li>ii) If it is mentioned 'NO' above, submit detailed deviation to be made from the enclosed drawing &amp; technical specification.</li> <li>(Extra sheet may be attached, if required).</li> </ul>	:

Contd......Page/2

re sii	Submit the documentary evidence garding execution of latest contract of milar nature and magnitude of minimum ngle order value of Rs. 5 Lakh.	
08.	Proof of financial status of the company/ audited Balance Sheet for last 3 years indicating total turnover as well. (Submit documentary evidence).	;
12.	Minimum down time to handle breakdown calls and /or any sort of emergencies.	:
13.	Whether agreed to accept 30 days credit Payment Terms.(Please mention 'YES' or 'NO'.).	:
14.	Minimum time required for fabrication, supply & installation of tendered Auditorium at site.	of:
15.	Mention GST Registration Number and attach current valid GST Clearance Certificate.	:
16.	Validity of Bids: The Bids should remain valid for 180 days from the date of bid opening.	:
17.	Whether agreed to complete the fabrication & Supply of tendered items list positively by 45 days and failing which ready to absorb heavy penalty, if any order is placed on the bidder after observing tender procedure.  (Please mention 'YES' or 'NO').	
۱/۱	We hereby declare that the above statements are true. I/We al	so declare that the decision of National Council of Science Museums

Dated

Official Seal

regarding selection of eligible firms for opening of Financial Bid (Part-II) shall be final and binding on me/us.

Signature of the Tenderer/Constituted Attorney

## **ANNEXURE-E**

Price Bid (BOQ): To be filled as per the following format and to be uploaded in Cover-2.

