



प्रलकोर्तिगपावृणु

F. No. 1/Heritage bye law/407-M-Part II- OC (PLAN) (AMASR)
GOVERNMENT OF INDIA

Office of the Superintending Archaeologist
Archaeological Survey of India
Patna Circle, J.C.Road, Anta Ghat, Patna 800001

Date : _____

TENDER: F. No. 1/Heritage bye law/407-M- Part II - OC (PLAN) (AMASR)

NAME OF WORK: O.C.- (PLAN)(AMASR) TO PROVISION FOR TOPOGRAPHICAL AND CONTOUR SURVEY OF PROTECTED , PROHIBITED & REGULATED AREA AROUND CENTRALLY PROTECTED MONUMENTS/SITES, BIHAR

NAME OF CENTRALY PROTECTED MONUMENTS/SITE (SURVEY TO BE EXECUTED)

1. Ancient site of Vikramshila Monastery at Antichak, Dist. Bhagalpur.
2. Ashoka Column at Kolhua, Dist. Muzaffarpur.
3. Relic stupa at vill. Harpur Basant & chakramdas, Dist. Vaishali.
4. Budhist Stupa at Tajpurdeur, Kesariya, Dist. East Champaran.
5. Ashoka Column at Lauriya Areraj, Dist. East Champaran.
6. Ancient Stupa and Other Remains locally known as Sujata Garh at Bakraur, Dist. Gaya
7. The Tombs of Shah Makhdum Daulah Maneri and Ibrahim Khan at Maner, Dist. Patna
8. The Tank at Maner, Dist. Patna

1	Cost of application	Rs. 500/-
2	EMD	Rs. 27000/-
3	Estimated Cost	Rs. 1041600/-
4	Performance Security	As per rule
5	Tender System	Two Cover
6	Date of publication in Press	06.11.2017
7	Date of uploading in web site	06.11.2017
8	Date of downloading from web site	06.11.2017
9	Closing time for submission of tender	23.11.2017 2.00 PM
10	Date and time of opening of the tender	23.11.2017 3.30 PM
11	Date and time of Technical Evaluation Committee Meeting	24.11.2017
12	Date and Time of opening of financial bids	Inform Later
13	Venue of pre-bid meeting, meeting of Technical Evaluation Committee and opening	At the above address

Instructions to Bidders

F. No. 1/Heritage bye law/407-M- Part II- OC (PLAN) (AMASR)

Chapter 1 Background and Scope

A. Introduction

Archaeological Survey of India (ASI) is planning to prepare a topographic map for the **protected area, the prohibited and regulated area** around the following centrally protected monuments/ sites under jurisdiction of Patna circle including the contour, using **Total Station & DGPS**.

S.No.	Name of Monuments	Dense Area (in Acres)	Open Area (in Acres)	Remarks
1	Relic stupa at vill. Harpur Basant & chakramdas, Dist. Vaishali	12.00	114.00	Area may be changed. Actual area should be calculated after the mapping.
2	Ashoka Column at Kolhua, Dist. Muzaffarpur.	50.00	115.00	
3	Budhist Stupa at Tajpurdeur, Kesariya, Dist. East Champaran	05.00	170.00	
4.	Ashoka Column at Lauriya Areraj, Dist. East Champaran.	25.00	85.00	
5	Ancient site of Vikramshila Monastery at Antichak, Dist. Bhagalpur.	50.00	320.00	
6.	Ancient Stupa and Other Remains locally known as Sujata Garh at Bakraur. Dist. Gaya	25.00	80.00	
7.	The Tombs of Shah Makhdum Daulah Maneri and Ibrahim Khan at Maner, Dist. Patna	45.00	100.00	
8.	The Tank at Maner, Dist. PATna			
	Total	212.00	984.00	

The following **parameters** shall be adhered to and incorporated in survey plan:-

1. Contouring at 0.50 M interval.
2. Fixing of Bench mark and survey points on the ground and map.
3. Protected area needs to be mapped in such a manner that property and feature within the area can easily be identified. Therefore the area shall be required to be gridded both on map and ground. Grids can be 20X20 meters. Scale 1: 2000
4. Mapping of structures on plan.

5. Other features like tank, embankment, mud fortifications, remains of ancient structures etc. should be shown.
6. Roads and pathways.
7. Garden area.
8. Trees (with an inventory-tree- type, girth and height)
9. Telephone Lines
10. Sewerage Lines
11. Water supply lines, etc.
12. Contouring /Relative heights of certain areas.
13. Any other feature that is required to be incorporated in consultation with the competent authority.

Tenders are invited from reputed and experienced firms fulfilling the eligibility conditions to conduct the survey as per the terms and condition (including above parameters) given below.

B. Scope of Work

Contouring

1. The bidder shall carry out spot level surveying on all traverse stations and on salient points located at random over the area (ground points). Contours are to be interpolated at 1.0 m intervals after the above points are plotted.
2. The contours shall not be just interpolated but properly surveyed on the ground so that features falling between the two successive levels are also picked up. Sufficient points properly distributed over the entire area shall be located and levels taken so that accurate contouring can be done at places of sharp curvature or abrupt change in direction and elevation, points selected shall be close to each other. Salient points on ridge lines and valley lines shall also be measured.

Procedure for Survey

1. The survey procedure to be followed in Total Station and DGPS.

Total Station Survey

1. Follow the procedure detailed as mentioned in DGPS survey. Each BP must be fixed from at least 2 known locations.
2. Geo-reference / plot the data using GCPs. GCPs shall be collected using dual frequency DGPs receivers in real-time as per procedure detailed above in DGPS survey.
3. The accuracy desired is 5 mm/km and angles to 1° / 360°.
4. The distance between the Total Station and the target shall not be more than 50 m.

DGPS Survey

1. The Survey shall be carried along the above said area which is invariably shown by the concerned official of Archaeological Survey of India with reference to the layout maps.
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2. The survey should preferably be started from the first BP (Base Point) which is well defined.
3. In case real-time DGPS rovers are used, the Dual Frequency DGPS can be used alone and reading taken when accuracy is within 25 cm.
4. The height above Mean Sea Level (MSL) shall also be recorded for permanent location.

Conditions to be observed for Survey

1. As far as possible similar DGPS instruments shall be used for collection of GCPs and all DGPS equipment must be set-in to GCS –WGS84 Datum uniformly.
2. RAW and post-processed DGPS readings along with original source file for each location shall be submitted. As soon as the work is completed, in case to TS, original downloaded file and a CSV file must be submitted along with raw data clearly depicting the occupies station, back station and the co-ordinates in NEZ format.

Specification of TSM Survey Machine

1. Least count should be 1 sec with an accuracy of 5 mm.
2. With proper calibration certificate.

Specifications of DGPS Machine

1. Must be of Dual frequency taking L1 & L2 channels.
2. Must be able to work in RTK mode with Radio connections.
3. Minimum 72 channel parallel tracking receiver.
4. DGPS must be activated for receiving both GPS and GLONASS Satellites.

Output of the Mapping: Preparation & Submission of Survey Maps

1. The bidder shall submit key plan of the site in 1:1000 scale. All plans, indicating the contour lines, demarcating all permanent features as mentioned above. Contour interval from 0.50M may be changed for specific feature.
2. All the maps and drawings should be prepared in digitized forms using Inkjet / Pen plotter and standard computer software like Auto Cad (latest version) on standard A0 size polyester base film.
3. Contour maps at site – The grids for the survey work shall be established in N-S & E-W direction (Corresponding to magnetic North) and the survey reference shall be spheroid WGS 84
4. The bidder shall submit three hard copies and two soft copies in CD/DVD of all draft reports for review and approval.
5. After approval, specified prints of all the final maps on polyester base film / high quality paper along with two sets in soft format in a CD/DVD shall be submitted.

Drawings

1. All drawings shall be prepared on AutoCAD. The AutoCAD drawings shall have different layers for different features as mentioned above and in consultation with the officer- in-charge.
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2. X, Y, Z co-ordinates of all spot / ground points shall be provided in CSV file as directed by Engineer in-charge with point numbers and feature coding as per list of codes given by Engineer in-charge.
3. The drawings should contain the features as given in B.4.

Softcopy

1. All the raw data generated through DGPS/TS survey should be processed to provide the output. All the raw and processed data in forms becomes the property of ASI and must be handed over to ASI. All electronic data should be copied in a Hard disk and given to ASI.

Chapter 2 Tendering Process

A. Eligibility Criteria

1. The bidder should fulfil the following eligibility criteria (proof of each to be submitted):
2. The Bidder should be a registered company.
3. Bidder should have valid PAN Number.
4. The Bidder should also have Service Tax Number.
5. The Bidder shall possess necessary survey equipments such as Total Station and DGPS.
6. The bidder must have trained and experienced engineers/ surveyors/technical staff, field staff, DGPS, Total Station, computers and necessary software to complete the survey and deliver the reports in the required format within the stipulated time.
7. **The bidder must have undertaken at least two projects of topographical survey with DGPS, Total Station Survey for government/reputed public sector companies or similar bodies. The area covered should be 200 Acre and above individually.**
8. The bidder should ensure that no relative of him or his relatives are staff of ASI in any capacity.
9. Documentary Evidence must be submitted in the form of Work Orders and experience Certificates in support of above claims. Any statement with regard to above qualification criteria without proof will be assumed to be invalid and agency will be disqualified on that ground. Only agencies fulfilling all the above criteria will be shortlisted technically.

B. Site Visit

1. Any site information given in this tender document is for reference only. The Bidder is advised to visit and examine the site of works and its surroundings and obtain for himself on his own responsibility and cost all information that may be necessary for preparing the tender and for the execution of the assignment. The bidder shall be
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deemed to have inspected the site and its surroundings beforehand and taken into account all relevant factors pertaining to the site in the preparation and submission of the tender.

2. The costs of visiting the site shall be borne by the Bidder.
3. The Bidder and any of his personnel or agents may contact the In-charge of Sub Circles for the purpose of such inspection, but only upon the express condition that the Bidder, his personnel and agents, will release and indemnify the Engineer or his representatives from and against all liability in respect of such inspection and will also be responsible for death or personal injury, loss or damage to property and any other loss, damage, costs and expenses incurred as a result of the inspection.
4. It is the responsibility of Bidders to visit the site and obtain all information necessary for the purpose of preparing Tenders. Bidders must inspect and fully satisfy themselves as to the requirements and extent of the assignments.

C. Tender Documents

1. The tender document can be only be downloaded from the departmental web site www.asi.nic.in and Central Public Procurement Portal <http://eprocure.gov.in/>. The tender documents contain the schedules stated below, and should be read in conjunction with any Addenda / Amendments issued subsequently.
 - a) Instruction to Bidders
 - b) Annexure I Details of the Bidder
 - c) Annexure II Price Bid
 - d) Annexure III Terms of Reference
2. The Bidder shall examine carefully all the contents of the tender documents including instructions, conditions, terms, specifications and drawings and take them fully into account before submitting his offer. Failure to comply with the requirements as detailed in these documents shall be at the tenderer's own risk and tender submission will render the tender liable for rejection. Pursuant to Clause 3 above, tenders, which are not responsive to the requirements of the tender conditions, will be rejected.

D. Clarification of Tender Documents

1. At any time prior to the deadline for submission of tenders, the Superintending Archaeologist, ASI, Patna Circle, may for any reason, whether on his own initiative or in response to a clarification by a prospective Bidder, modify the tender documents by issuing addenda.
 2. A Bidder requiring any clarification regarding the tender documents contact the Superintending Archaeologist, ASI, Patna Circle (circlepatna.asi@gov.in) through e-mail only. The queries will be responded which were received 3 days prior to the deadline for submission of tenders. The queries will be uploaded in the web site www.asi.nic.in only including a description of the enquiry, but without mentioning
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the source of the enquiry. It is to be noted that no queries, clarifications will be received after the period stipulated above.

3. All prospective bidders are requested to browse the web site for information. It is deemed that they are fully aware of the corrigendum so issued once they bid for the work
4. Any amendments thus issued will be hosted on the website up to two days prior to the dates specified for submission of the bids. All the bidders who have downloaded the Bid Document shall verify if any such amendment/modifications have been issued before submitting their bid and shall take cognizance of and include such amendment(s) in their submission. In any case, the amendment(s)/modification(s) if any shall be binding on the Bidder. No separate notice/intimation of amendments/modifications will be sent to those who have downloaded the document from the web.
5. If any addendum is issued, reasonable time will be given to Bidders to take the corrigendum into account in preparing their tenders, in which case, the authorities may extend the deadline for submission offenders.
6. While all efforts have been made to avoid errors in the drafting of the tender documents, the tenderer is advised to check the same carefully. No claim on account of any errors detected in the tender documents shall be entertained.

E. Submission of Bids/Tender

1. The bid in hard copy only shall be submitted separately in two envelopes as follows.
 2. The tender, and all correspondence and documents, related to the tender, exchanged between the Bidder and the Superintending Archaeologist, ASI Patna Circle shall be written in the English language only.
 3. Any litigation arising out of this assignment shall only be adjudicated before the competent court of law within the jurisdiction of the Hon'ble High Court of Patna, Bids in open condition or through e-mail or in any other form will not be accepted.
 4. The completed bid must reach the **O/o the Superintending Archaeologist, Archaeological Survey of India, Patna Circle, J.C.Road, Anta Ghat, Patna 800001** on or **before 2:00 PM on 23.11.2017**. The bids will be opened and processed thereafter as per the schedule given above.
 5. The bids may be sent by courier/speed post/dropped at the tender box in person as per the convenience of the bidder. However, ASI will not be responsible for the non-receipt or delayed receipt of the tender. Any tender received beyond the closing hours through courier or post will not be received and will be returned to the sender.
 6. In the event of the date for the submission of tender is declared a holiday, the bids will be received up to the appointed time on the next working day. Other schedules will be changed accordingly.
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7. The bidders shall bear all costs associated with the preparation and submission of its bid, including cost of technical presentation, preparation of the samples etc. ASI will in no case be responsible or liable for those costs, regardless of the outcome of the Tendering process.
8. No bid may be modified subsequent to the submission of bids.

Cover A

1. Superscripted "**Technical Bid (F. No. 1/Heritage bye law/407-M-Part II- OC (PLAN) (AMASR) documents for the Work: O.C.- (PLAN)(AMASR) To Provision for Topographical and Contour Survey of Protected , Prohibited & Regulated Area Around Centrally Protected Monuments/Sites, Bihar**". The name and the address of the firm should be clearly stamped/ printed on this cover.
2. The cover should contain:
 - a) FDR in favour of the Superintending Archaeologist, ASI, Patna Circle and payable at Patna for **Rs 27000/-** towards EMD
 - b) Separate Demand Draft drawn in favour of the Superintending Archaeologist, ASI, Patna Circle and payable at Patna for Rs. 500/- towards the cost of tender form downloaded from the website.
 - c) Duly filled Annexure – I giving the eligibility details supported by documents as listed there in.
 - d) Duly signed terms and conditions Annexure – III

Cover B

1. This cover will have the Memorandum providing the price bid. The price bid should be unconditional.
2. The cover should be super scribed "**Financial Bid (F. No. 1/Heritage bye law/407-M- Part II- OC (PLAN) (AMASR) documents for the Work: O.C.- (PLAN)(AMASR) To Provision for Topographical and Contour Survey of Protected , Prohibited & Regulated Area Around Centrally Protected Monuments/Sites, Bihar**. The name and the address of the firm should be clearly stamped/ printed on this cover.
3. This cover should contain the duly filled in price bid Annexure – II supported by the documents requested there in.

Outer Cover:

1. The two covers (Cover A and Cover B) must be placed in a sealed outer cover super scribed "**TENDER (F. No. 1/Heritage bye law/407-M- Part II - OC (PLAN) (AMASR) documents for the Work: O.C.- (PLAN)(AMASR) To Provision for Topographical and Contour Survey of Protected , Prohibited & Regulated Area Around Centrally Protected Monuments/Sites, Bihar**. The cover must be addressed to The Superintending Archaeologist, Archaeological Survey of India, Patna Circle, J.C.Road, Anta Ghat, Patna 800001. The name and address of the firm should be clearly stamped or printed on the face of the cover. It must be securely sealed with gum and further in a tamper proof manner either by sealing tapes or using sealing wax.
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F. Bid Opening

1. The bids will be opened at Patna on **23.11.2017** at in the O/o the Superintending Archaeologist, Archaeological Survey of India, Patna Circle, J.C.Road, Anta Ghat, Patna 800001 in two sessions as per the schedule given above, in the presence of bidders' representatives (only one per bidder) who chose to attend the bid opening sessions on the specified date, time and address. The bidders' representatives who are present shall sign the register evidencing their attendance.
 2. Prior to opening the names of bidders, who have given advance notice for modification or for withdrawal of their bids from the tendering process well before the deadline for the submission of bids. Bid envelopes, of the bidders who wish to withdraw from the tendering process, shall be returned to their representatives, if present or sent by post unopened to their addresses.
 3. All the received covers and dropped in the Tender Box kept for the purpose will be opened.
 4. Cover A will be opened thereafter for verification of EMD, application money, qualification to participate in the technical evaluation.
 5. On satisfying the qualification, the bidder's background and previous work will be evaluated by the Technical Evaluation Committee.
 6. Technical evaluation
 7. The bidder shall make a presentation before the Technical Evaluation Committee (TEC) about his technical resources and the survey work performed before. He may also show the outputs to the Technical Evaluation Committee along with the photographs of the site. The firm may also highlight the difficult or significant work done by them
 8. TEC may, at its discretion, call for additional information/clarifications from the bidders. Such information has to be supplied within the time frame set out by the TEC, otherwise TEC shall make its own reasonable assumptions at the risk and cost of the bidders and the bid is liable to be rejected.
 9. For verification of information submitted by the bidders, the TEC may visit their sites/premises of the firm to verify the facilities, if required at its own cost. The TEC may verify confidentially the credentials and performance with their previous clients.
 10. The bidders shall provide all the necessary documents, samples and reference information as desired by the TEC. The bidders shall also assist the TEC in getting relevant information from the bidders' references. Seeking clarifications cannot be treated as acceptance of the instrument/bid.
 11. After due evaluation of Technical capabilities of the bidders, through a marking system, the TEC would submit its recommendation clearly bringing out the technically accepted bids.
 12. After evaluation by the committee, the financial bids of short listed bidders will be opened either on the same day or on the subsequent day.
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G. Earnest Money Deposit and Performance Security

Earnest Money Deposit

1. The bid must be accompanied by one FDR drawn in favour of the Superintending Archaeologist, ASI, Patna Circle and payable at Patna for **Rs. 27000/- (Rs. Twenty seven thousand)** towards EMD and a DD of Rs. 500/- towards the cost of tender form respectively.
2. No interest will be payable on the amount of the EMD. The EMD of unsuccessful bidders shall be returned without any interest on finalization of tender, through Speed Post/Registered Post with letter clearly indicating that the FDR is released. If the unsuccessful bidder desires to collect the same through some other means he may inform in writing and in advance.
3. EMD of the successful bidder shall be returned on submission of performance security deposit as per rule of the value of the price quoted in the form of FDR. (In the case of works costing more than Rs.2,00,000/-, 10% on the first Rs.1,00,000/-, 7 ½ on the next Rs. 1,00,000/- and 5% on the balance, subject to a maximum of Rs. 1,00,000/- only)
4. If the successful bidder withdraws his bid in writing or fail to undertake the works within the stipulated time as mentioned in the supply order or did not submit the Performance security, his EMD will be forfeited.

Performance Security Deposit

1. The successful bidder should give an undertaking that the data observed and submitted are genuine, accurate and are not interpolated. High level of accuracy of data, which should only be empirical and not interpolated, is expected, binding on the bidder and he should ensure the same.
 2. The successful bidder must deploy the instruments and manpower to initiate the work within the stipulated time.
 3. The performance will be evaluated by an Experts Committee constituted for this purpose in a given schedule of time. If the Experts Committee is of the opinion that the standard of data generated by the bidder is below standard or inaccurate or arbitrary, the work order will be cancelled and the performance security will be forfeited.
 4. The Experts Committee will devise its own method of verification of data submitted by the firm and the decision of the Committee is final and binding on the firm. The data generated may also be checked and verified by an officer deputed by this office on day to day basis.
 5. The successful bidder shall be required to submit performance security equivalent to as per above said rule of the order value for the satisfactory performance/completion of the complete order in the form of FDR drawn in favour of the Superintending Archaeologist, ASI, Patna Circle and payable at Patna seven days before the initiation of the work. On the production of performance security the FDR EMD will be returned to the bidder.
 6. If the performance security amount is not placed, the EMD will be forfeited.
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7. Performance security may be invoked if the firm did not initiate or complete the work within the stipulated time or their work is not up to the standards in the periodic evaluation by Experts Committee.

H. Other Conditions

1. Any bid received by ASI after the deadline for submission of bids prescribed above will be summarily rejected and returned unopened to the bidder at the address mentioned on the outer cover by Speed Post/Registered Post.
2. ASI will not be responsible for any postal delay or non-receipt/non-delivery of the bid. No further correspondence will be entertained on the subject.
3. A bidder cannot modify the bid after the submission. Bidder may withdraw his bid through a written submission to the opening authority before the expiration of deadline prescribed for submission of bids.
4. Bids shall be valid for 30days from the date of opening. ASI holds the right to reject a bid valid for a period shorter than 30 days as nonresponsive without any correspondence.
5. ASI reserves the right to accept any bid, and to cancel / abort the Tender process and reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected agency or agencies, of any obligation to inform the affected agency of the grounds for ASI action and without assigning any reason.
6. The bid shall be submitted in the form of printed document. Bids submitted other modes or in unsealed envelopes shall not be entertained.
7. Any effort by a bidder to influence ASI in its decisions on bid evaluation, bid comparison or award of the contract may result in the bid rejection.
8. No pre bid meeting will be held. However queries will be answered through e mail/ telephone only.

I. Delivery Schedule and Penalty

1. The successful bidder will initiate and complete the work within the stipulated time. Any delay in initiation or completion will be allowed at the sole discretion of the Superintending Archaeologist, ASI, Patna Circle. If the request is rejected, the work order may be cancelled or penalty may be levied.
 2. At the discretion of the ASI, any delay beyond the approved time limit, will invite a penalty @ 0.2% of the order value per day of default. This amount will be deducted from the invoice.
 3. The work will be checked at the field condition by ASI officials and Expert Committee for accurate performance.
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J. Payment

Calculation of Surveyed Area

1. Since the areas of the above said centrally protected monuments/sites are not well defined and highly irregular, the payment will be made on the basis area calculated from the final drawing.
2. The area calculated by the successful bidder may be submitted to experts from an external agency for verification. The decision arrived at by the independent expert will be final and binding on either side.
3. The payment will be released after the completion of the work in all respects. Part payment will be considered on the recommendations of the Experts Committee/evaluation of the data generated by the Department officials. The quantum will be decided by the ASI and there will be no negotiations on this aspect.
4. The payment will be made through a FDR or remitted to the bidders account through NEFT/RTGES on production of a mandate form from the Bank within reasonable time.
5. All statutory deductions like TDS will be done as per rules.

K. Arbitration

1. All disputes or differences, including the claims for damages and compensation whatsoever, arising between the parties, out of or relating to the construction, meaning, operation or effect of this agreement or the breach thereof shall be settled amicably. However, if the parties are not able to resolve them amicably within a period of 15 (fifteen) days, the same shall be resolved by arbitration in accordance with the Arbitration and Conciliation Act, 1996. The dispute may be referred to arbitration by either party only after notice in writing to the other, clearly mentioning the nature of the dispute/differences. Such arbitration shall be conducted by an arbitral tribunal consisting of three arbitrators one arbitrator to be appointed by each Party, and the third arbitrator to be nominated by Director General, Archaeological Survey of India, Government of India. The Arbitration and Conciliation Act 1996 or any statutory modification thereof shall apply to the arbitration proceedings and the venue for the arbitration proceedings shall be Patna and courts at Patna shall have exclusive jurisdiction. All the arbitration proceedings shall be carried out in English language.
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