Commission for Air Quality Management in NCR and Adjoining Areas

17th, Floor, Jawahar Vyapar Bhawan Tolstoy Marg, New Delhi- 1 10001 Dated: 26.05.2023

Call for Project Proposals



Commission for Air Quality Management in NCR and

Adjoining Areas (CAQM)

17th Floor, Jawahar Vyapar Bhawan, Tolstoy Marg, New Delhi-110001

The Commission for Air Quality Management in NCR and Adjoining Areas with a view to monitor, prevent, control and abate air pollution in Delhi-NCR arising from various contributory sources/sectors invite research and development proposals, pilot projects for field demonstration and evaluation of various technology interventions from Scientists/Researchers/ Non-Government Organisations (NGOs)/ CBOs/ Consortia/ Individuals for improvement of air quality in the region, to be coordinated and proposed by an Academic/Research/ Scientific Institution of repute.

The scheme for projects, details of the broad thematic areas, eligibility conditions, Funding details, Terms & Conditions, prescribed proforma etc. are available at <u>caqm.nic.in</u> under Circular/Orders.

The Proposal for consideration of grant for the financial year 2023-24 may be sent through post to "Commission for Air Quality Management in NCR and Adjoining Areas" 17th, Floor, Jawahar Vyapar Bhawan (STC Building) New Delhi- 110001, or through email on (caqm-ncr@gov.in), latest by 30.06.2023.

COMMISSION FOR AIR QUALITY MANAGEMENT INNATIONALCAPITALREGIONANDADJOININGAREAS 17th FLOOR, JAWAHAR VYAPAR BHAWAN (STC BUILDING)

NEW DELHI - 1100001 E-mail: caqm-ncr@gov.in

SCHEME FOR PROIECTS FOR PREVENTION, CONTROL AND ABATEMENT OF AIR POLLUTION IN DEIHI- NCR INCLUDING R&D PROIECTS

1. Background

Section 12(2)(vi) and 12(6)(c)(iii) of the CAQM Act, empowers and mandates the Commission to carry out R&D on air pollution. Under this scheme CAQM would provide financial assistance to Scientists/Researchers/Academic institutions/ Non-Government Organisations (NCOs)/CBOs/consortia/individuals towards demonstrable projects for prevention, control and abatement of air pollution broadly in the following thematic areas:

Vehicular Pollution, Industrial Pollution, Dust from Construction and Demolition activities, Dust from Roads and Open Areas, Biomass Burning Agricultural Stubble Burning, Municipal solid waste Burning, Air Pollution from dispersed sources including hotspots etc.

The proposals shall be evaluated by a Committee constituted for the purpose by-the CAQM. The proponents are encouraged to publish outcome of their project work including R&D elements, if any, in National and International journals.

2. Eligibility of Applicants

Project Proposals for financial assistance may be submitted by academic, scientific and research institutions as also by CBOs, registered National / local NGOs entrepreneurs (consortia of individuals) etc, who meet the following criteria and also need to coordinate with academic/research/scientific institutions and Propose projects through them:

- Have been registered (except in the case of individual applicants) with an appropriate national authority for a period of minimum 2 years.
- Have demonstrated a proven or otherwise strong potential to implement air
- pollution abatement strategy / methodology,
- Individuals/Organisations having previous experience in the field of air pollution shall be preferred.

Possess adequate scientific and professional credibility and experience in

Project management including financial administration.

The Project investigators of the institutions thus seeking a project from the Commission should have adequate infrastructure to pursue the research project' Such institutions should be Universities and Colleges recognized by UGC/AICTE/ICMR, State level Research Institutes with expertise in the relevant field/area of the proposed project.

- i The area of operation of the field demonstration project, including R&D elements must necessarily be towards prevention, control and abatement of air pollution Delhi-NCR.
- Before a grant is released, the Grantee should be asked to execute a bond with two sureties (a) he/she will abide by the conditions of the grant by the target date, if any specified therein (b) that he/she will not divert the grant and entrust execution of the scheme or work concerned to another institution (S) or organization(s) (c) shall abide by any other conditions specified in the agreement and in the event of his/her failing to comply with the conditions or committing breach of the bond, the Grantee and sureties individually/jointly will be able to refund to sanctioning grant authority, the entire amount of grant with interest at the rate asper the highest rate of Bank deposit.
- iii Execution of bond will not apply to quasi-Government Institutions, Central Autonomous Organisations and Institutions whose budget is approved by Government (GFR, 2017).
- iv In-case, the organization has its branches, the proposal must be forwarded and submitted by its Head Office to the Commission.

Qualifications for Project Investigators

The Principal Investigator and Co-Investigator should have preferably Doctorate Degree and previous experience in the field of the proposed project. Preference will be given to the projects where preliminary work has been done on the topic substantiated by the publications and in the interest of abatement of air pollution of Delhi-NCR.

3. Submission of proposals

- (i) The applicant will submit the project proposal on prescribed format prepared as per the guidelines of CAQM. The project will have a Principal investigator who would be responsible for its formulation and implementation.
- (ii) The objectives of the project must be well defined and indicating the likely deliverables.
- (iii) The project proposal needs to be as comprehensive as possible, outlining allocation of works, work scheduling, annual action plan, etc.

- (iv) All the project proposals have to route through the Head of Institutions and must be supported with all relevant documents.
- (v) The proposals received will be screened and evaluated by the empowered Committee constituted for the purpose.
- (vi) Maximum one project shall be sanctioned to an entity at a time so that new projects may also avail the opportunity of the scheme. New project proposals in respect of the same entity shall be considered only after successful completion of the previously sanctioned Project.

4. Term of the Project

The projects need to be focussed and target oriented towards abatement of air pollution in Delhi-NCR and hence need to be completed maximum within a period of two years from the date of sanction of the project by the CAQM' Extension shall be considered in exceptional circumstances/ cases and shall not be ordinarily granted to the Projects.

5. Financial Support

The CAQM will provide financial support to the project, broadly as per extant norms of Department of Science and Technology (DST)/MoEFCC. The projects shall be broadly classified under the following heads:

- (i) Project cost less than Rs.15lakhs- Project term of one year
- (ii) Project cost between Rs. 15 25 lakhs Project term of two years
- (iii; Project cost > Rs. 25 lakhs Project term of two years

The equipment procured under the project shall be the property of the host institution on completion of the project, as approved by the CAQM. The equipment may be used for other projects including R&D after prior approval of the CAQM.

6. Release of Funds

The funds towards project execution shall be released in phases with 25% of the funds being released immediately after the final sanction of the project by the CAQM. Thereafter, funds would be released based on periodic evaluation and specific demand by the project investigator along with adequate justification and on submission of the requisite documents, subject to submission of annual audit reports for projects of more than 01-year duration.

7. Monitoring

The Principal Investigator shall submit quarterly reports and a final report in prescribed format timely to the CAQM. The report must contain details about the work accomplished, results vis-d-vis the targeted outcomes and duly audited accounts (in case of the final report). The final report shall be

examined and evaluated by CAQM for the project output and outcomes, significance of the interventions and follow up action required therefrom.

The CAQM may review / inspect the said project at any point of time and the Head of the Institution and principal Investigator (PI) and suitable action may be initiated against the PI in case the progress is not upto the mark. Release of funds at appropriate stages of the project will be withheld in the event of non-receipt of Utilization Certificate, timely Progress Reports or unsatisfactory Progress of work.

Terms and Conditions of the Grant

(To be signed and enclosed with the proposal)

- 1. Approval of the Proposal and the grant released is for the specific project mentioned in this proposal and grant should be exclusively spent on the project for which it has been sanctioned within the stipulated time. The Institute is not permitted to seek or utilise funds from any other organisation (Government, semi-Government and Autonomous or Private) for this research project. Any unspent part of amount would be surrendered to the Commission through an account payee demand draft drawn in favour of the commission.
- 2. The implementing Institute/Principal Investigator will furnish progress report of work on the project every three months in the **enclosed format** (Section E). The progress of the project will also be reviewed/monitored by CAQM. In addition, the commission may designate Scientists/ Specialists to visit the Institute periodically for reviewing the" progress of work and for suggesting such measures as to ensure early realisation of the objectives of the project. On completion of the project, five copies of a consolidated report of the work done on the subject would be submitted to the Commission.
- 3. The Institute would furnish to the Commission a utilisation Certificate and an annual audited statement of accounts/expenditure duly signed by the Principal Investigator, the Head of the Institute and the Head of the Finance wing, pertaining to the grant in **enclosed format**. (Section F) They shall submit all the evidences of expenditure for the project (Bills and Vouchers etc.) including institution norms for claiming overhead costs.
- 4. A stamped receipt is to be sent to the Commission on receipt of the Cheque/Demand Draft towards each release.
- 5. The Institute would maintain separate audited accounts for the project. If it is found expedient to keep a part or whole of the grant in a bank account earning interest, the interest thus earned should be reported to the Commission. which shall be adjusted against release of funds to be made in future or the interest so earned shall be deposited back in the Commission's account.
- 6. Investigators/Institutes wishing to publish books/research paper/popular articles based on the research work done under the projects of the Commission should acknowledge the financial support received from the Commission.
- 7. The Institute may not entrust the implementation of the work for which the grant is being sanctioned to another institution and to divert the grant receipts as assistance to the latter institution. However, in such situations the prior expert permission of the Commission may be obtained. In case the grantee is not in a position to execute or complete the project, it may be

required to refund the entire amount of grant with interest received by it to the Commission.

- 8. The Commission reserves the right to terminate the grant at any stage and also to recover the amounts already paid with interest, if it is convinced that the project fund has not been properly utilised or the work on the Project has been suspected for a long period or appropriate progress is not being made.
- 9. The project will become operative with effect from the date of release of the first financial instalment for the project or date of sanction of the project whichever is later and must be completed within the targeted timelines of the projects.
- 10. If the Investigator to whom a Project fund has been sanctioned leaves the Institution where the Project is being implemented, he/she shall submit five copies of complete and detailed report of the work done by him/her on the Project and the money spent till the date of his/her release and shall also arrange to refund the unspent balance, if any. In the event of failure to comply with the above or committing a breach of the bond, the Grantee and sureties individually/jointly shall refund the entire amount of grant with interest at the rate as per highest rate of Bank deposit to the Commission.
- 11. The entity must comply with rules and regulations on matters of economy and efficiency.
- 12. The grantee institution shall be liable for inspections by the Sanctioning Authority/Audit whenever the institution is called upon to do so.
- 13. The proposed project under this scheme may not be funded out of budgetary allocation of the Government of India State Governments or any other sources.
- 14. As far as possible, procurement of equipment's/ accessories may be made through the GEM (Government e-market place)/ other Government procurement portals (for equipment's/machinery/accessories listed in such portals) with due financial diligence.
- 15. The Grantee Institution is liable to refund entire grant with interest if they are found not abiding with any conditions of the Agreement.

Signature of Principal Investigator

Signature of Executive Authority of Institute/University with seal

Signature of Co-Investigators

COMMISSION FOR AIR QUALITY MANAGEMENT IN NATIONAL CAPITAL REGION AND ADJOINING AREAS 17th FLOOR, JAWAHAR VYAPAR BHAWAN (STC BUILDING) NEW DELHI – 110001

E-mail: caqm-ncr@gov.in

PERFORMA FOR SUBMISSION OF PROJECTS

(Two copies to be submitted)

SECTION - A

- 1. Name of the Principal Investigator
- 2. Address (please attach Bio-data)
- 3. Name of Co-Investigator
- 4. Address (please attach Bio-data)
- 5. Title of the Research Project
- 6. Board Thematic Areas to be taken up under the projects:
 - a) Prevention, control and abatement of Vehicular Pollution
 - b) Prevention, control and abatement of Industrial Pollution
 - c) Prevention, control and abatement of Dust from C&D activities
 - d) Prevention, control and abatement of Dust from Roads and Open areas
 - e) Prevention, control and abatement of Air Pollution due to Agricultural Stubble Burning
 - f) Prevention, control and abatement of Air Pollution due to Municipal Solid Waste Burning and misc. biomass burning
 - g) Prevention, control and abatement of Air Pollution from dispersed sources
 - h) Prevention, control and abatement of outdoor Air Pollution in hotspots
 - i) Any other specific areas related to identification, monitoring and safeguarding against air pollution.
- 7. Relevance of the Project to the Commission (*Please specify)

- 8. Period of completion of the Project
- 9. PERT chart indicating month wise targeted activities to completed within the duration of project

10. Budget Estimates

(A) Non-Recurring –Equipment, machinery etc. (please attach three quotations for each category)

	<u>. </u>	. ′		,
S. No.	Name of Equipment/	Specification of	No. of Units	Total
	facilities to be procured (direct purchase/outsourced services/subscription etc.	equipment		Estimated cost

(B) Recurring (administrative and other expenses)

G N	T.	В	udget	Total
S. No.	Item	1st year	2 nd Year	
1	Salary of JRF/SRF			
2	T.A./DA Expenses			
3	Consumables			
4	Publication/Printing			
5	Others (please			
	specify)			
	Total			

DECLERATION & ATTESTATION

I/We have read the terms and conditions of grants for research project of CAQM given at Annexure. Necessary Institutional facilities will be provided, if the research proposal is approved for financial assistance. I also declare that no funding is applied or taken from any other agency for the same/similar project. Complete audited account of expenditure and utilization certificate will also be submitted by the Institution.

SECTION - B

BIO-DATA OF THE INVESTIGATOR (S)

(Use separate sheets for Principal Investigator & Co-Investigator)

1	. Name of the Pr	rincipal Investigator:		
2	. Designation:			
3	. Sex:			
4	. Category (SC/	ST/OBC/General):		
5	. Name of Instit	ution:		
6	. Mailing Addres Fax, and e-ma	ss (must indicate Tele il address)	phone No.,	
7	. Date of Birth			
8	. Broad Subject	Area		
9	. Filed of Specia	lization		
10	. Educational Q	ualification (starting f	rom Bachelor's Deg	ree onwards)
	Degree	Year	Institution	Field
	. Details of Prof	essional Training and lifications	Research Experienc	ce
	Degree	Year	Institution	Field

13. Professional Recognition / Awards / Prizes / Certificates etc.:

14.	Details	of other	Ongoing/	'Completed	Projects:

S.	Name of	Name of	Programme	Year of	Duration	Amount	Status:
No	the	the	Title	Funding		Sanctioned	Ongoing
	funding	Scheme					/Completed
	agency						

15. Previous financial assistance from the CAQM (if any):

S. No.	Year of sanction	Purpose	Amount sanctioned	Status of Utilization Certificate

16. List of Publications and patents:

S.	Title of	Author(s)	Name & Vol. of	Page No.
No.	Paper/Report/Book/Patent		Journal & year	
				From To

\mathbf{P}	دا	~	٠.
1	ιa	U	· •

Date:

Signature of the Principal Investigator

SECTION - C

DETAILED PROJECT PROPOSAL

This information must be adequate and sufficiently self-contained to enable the CAQM to assess the project, covering the following aspects:

- 1. Title of the Project:
- 2. Objective of the Project:

(Statement of problems and practical relevance to be Specifically indicated in 150 words)

- 3. Detailed Project Plan (In about 1,500 words):
 - a) Present knowledge with relevant bibliography highlighting the gaps in the existing knowledge /filed data.
 - b) Premilnary work already done, if any.
 - c) Specific objectives of the project
 - (i) Pilot Study (ii) Data Collection (iii) Data Processing.
 - d) Likely impact and outcome of the proposal
 - e) Justification of the project on grounds of
 - (i) Innovation
 - (ii) Capacity building /R&D
 - (iii) Field level implementable applications
- 4. Period of completion of the Project
- 5. PERT chart indicating month wise targeted activities to completed within the duration of project
- 6. Budget Estimates
 - (A) Non-Recurring Equipment, machinery etc. (please attach three quotations for each category)

S.	Name	of	E	quipment/	Specification	No. of	Total
No.	facilities	to	be	procured	of equipment	Units	Estimated
	(direct pu services/			outsourced ion etc.			cost

(B) Recurring (administrative and other expenses)

S. No.	Item	E	Budget	Total
S. NO.	item	1st Year	2 nd Year	Total
1	Salary of JRF/SRF			
2	T.A./DA Expenses			
3	Consumables			
4	Publication/Printing			
5	Others (please specify)			
	Total			

Total Project cost (A+B)

- (i) Justification of Contingency: (Please specify what for this amount is to be used)
- (ii) Justification of grant for equipment (The name/specification of equipment with approximate cost and its use in the context of this project may be given)

Undertaking

I have read the terms and conditions of research grant and agree to abide by the same.

Signature of the Principal Investigator(s):
Name:
Designation:

Dated:

SECTION - DInstitution's Bank Account Information for E-payment of project funds

S.No.	Sanction order no.& date	Total sanctioned project cost	Name of the Organization to be paid	Name of the Bank & Branch	IFS Code	Account No.

Signature of Head of the Institution with Seal

Verification by section in charge

SECTION- E

UTILISATION CERTIFICATE STATEMENT

(To be submitted with final project report)

- 1. F. No.
- 2. Date of sanction
- 3. Title of the Project
- 4. Name and Address of Principal Investigator
- 5. Name(s) and Address(es) of Co-investigator(s)
- 6. Amount sanctioned by CAQM
- 7. Amount released by CAQM
- 8. Detailed of expenditure:

NON - RECURRING

S. No.	List of the approved equipment	List of the equipment procured	Amount Sanctioned	Amount Utilized (Item wise)	Unspent Balance

RECURRING

\$ S. No	Activities undertaken	Period Amount	Amount Sanctioned	Amount Utilized (Item wise	Unspent Balance

Certified that the grant has been utilized for the Purpose for which it was sanctioned in accordance with the "Term and Condition" attached to the grant. If, as a result of check or audit objection some irregularity is noticed at a later stage, action will be taken to refund, adjust or regularize the amount objected to.

Head of Lead Institution (Signature & Seal)

Finance Officer (Signature & Seal)

Chartered Accountant (Signature & Seal)

Note: The Registrar/Finance officer in the case of universities, principals in the case of Colleges and Executive Heads of other Institutions will sign the utilization. Certificate (UC). The internal auditors may countersign the provisional UC wherever the system of the internal audit exists. In case of the Self- Financing/Private Institutions, UC has to be signed by a Chartered Accountant.

SECTION- F

FORMAT FOR FINAL PROGRESS REPORT FOR CAQM FUNDED PROIECT

File No. & Date of Sanction

- 1. Title of the Project
- 2. Principal investigators (Name & Address)
- 3. Co- investigators (Name(s) & Address(es))
- 4. Date of commencement of Programme
- 5. Duration of Project
- 6. Amount sanctioned by CAQM
- 7. Amount released by CAQM
- 8. Details of Expenditure
- A. NON-RECURRING

S. No.	List of approval equipment	List of procured equipment	Major specifications of Equipment procured	No. of units	Date of purchase	Expenditure
	Total					

B. RECURRING

S.No.	Item	Budget		Total	
		1st year	2 nd Year	3 rd Year	
1	Salary of Project staff				
2	Consumables				
3	TA/DA Expanses				
4	Publication/Printing				
5	Others(pl specify)				
	Total				

Total Cost A+B:

- 9. whether there is any deviation from the purpose for which: Grant was released. If so detail of amount to be given
- 10. Give details of the activities carried out during the year:
 - a. Details of individual activities.

(i) Details of patents/ copyrights.(ii) Details of publications etc.	
c. Details of training imparted.	
Date:	
Principal Investigators	
Co-investigators	Head of the Institution (Signature & Seal)

b. Outputs of significance

SECTION - G

FORMAT FOR AUDITED UTILIZATION CERTIFICATE

(To be submitted with final project report)

Certified that out	of Rs	of Grants-in-aid	sanctioned during
	vide Letter No		
utilized for the pu	rpose of	sanctione	ed and the balance
	remaining unut		
has been surrende	ered to Commission fo	or Air Quality Manag	ement in NCR and
adjoining Area	Cheque/ Draft	No	Dated
will	be adjusted toward	the Grant-in-aid pa	ayable during the
next year i.e	as per the	details attached.	
for which it was sa	grant has been utilized anctioned.	d as per laid down te	rm and conditions
Finance Officer			
(Signature & Seal)	1		
Date:	'		
		H	Head of institution
			(Signature & Seal)
	Chartered A	accountant	
	(Signature	e & Seal)	

Note: Please enclose statement of actual expenditure as per the Head of sanctioned order signed and with proper seal of financial head of the institution and Chartered Accountant.

SECTION H

FORMAT OF BOND

(To be executed on non-judicial stamp paper of Rs. 100/-)

1. Know all persons by these present that we the
(Name of Institution / An Association/ researcher) registered under the (Societies / Trust Registration Act (Specify the respective Act)/Companies Act/Affiliated to University) and having its office at
(Attested copy must be enclosed) (hereinafter referred as sureties)
are held and firmly bound to the Commission for Air Quality Management in NCR and Adjoining Areas (CAQM) hereinafter referred as "CAQM", in the sum
of Rs
interest thereon at the rate of 11.50% compounded annually (which would be adjusted as per the Government of India notification issued from time to time) from the date of receipt of the said amount by the Obligator up to the date of refund thereon to the Commission for failure to fulfil the obligations as at the 4th para below of this Bond. The term, obligator or sureties, unless repugnant to the context, shall mean and include the respective agents, assigns, heirs, successors etc., as the case may be.
2. Signed this day ofin the year
3. Whereas on the Obligator's request the CAQM has as per letter No
[Rupees

4. Now in consideration of the aforesaid letter of sanction, the obligator herein binds itself and undertakes to comply with the conditions of the Letter of Approval referred to herein and if the obligator shall duly fulfil and comply

with all its conditions mentioned in the Letter of Approval and application for inviting proposal mentioning the fee then this bond or obligator's obligation therein shall be void and of no effect, but otherwise it shall remain in full force, effect and virtue, and the CAQM shall be at liberty to enforce this bond against the obligator or the surety jointly and/or severally, as it may deem fit and on its option. These presents further witness that:

- a. That decision of the Chairperson, CAQM on the question whether there has been breach or violation on the part of the Obligator or any of the terms and conditions mentioned in the letter of approval, shall be final and binding on the Obligator.
- b. The liability of the sureties here under shall not be impaired or discharged by reason of time being granted by the CAQM or any forbearance, act or omission by or on the part of the CAQM whether with or without the knowledge or consent of the sureties in respect or in relation to the obligation or conditions to be performed or discharged in the obligation or by reason of the matter or thing whatsoever, which under the law relating to the sureties shall but for this provision have the effect of so releasing the sureties from such liability, nor shall it be necessary for the CAQM, to pursue the obligator before using the sureties or either of them the amount due here under.
- c. The Obligator herein agrees and undertake to surrender / pay to CAQM the monetary value of all such pecuniary or other benefits which it may receive or derive / have received or derived through / upon unauthorized use of fee for purpose other than that of which the fee was intended or the assets, purchased largely from out of "CAQM Grants". The decision of the Chairperson, CAQM as regards the monetary value of aforementioned to be surrendered /paid to the CAQM will be final and binding on the Society/Trust/Institution/ Organisation/ Researcher represented by the Obligator.
- e. The obligator and the surety assure and confirm that they have understood the scheme of assistance of sanction mentioned therein and they have executed this bond voluntarily and out of their free will.
- 5. In witness thereof these presents have been executed on behalf of the Obligator and the Sureties the day and year here in above written and

accepted for (Principal Investigator name and Designation) on the day and year appearing against his signature.

Signed for and on behalf of the Institution with date (Stamp/Seal)

(Principal Investigator name and Designation)

1.	Signature of the Surety (Name and Designation of Surety with Identity Card such as Aadhar Voter/ PAN/ ID card No (attach copy)
2.	Signature of the Surety (Name and Designation of Surety with Identity Card such as Aadhaar Voter/ PAN/ ID card No (attach copy)
3.	In the presence of:
	(i)
	(Name & Address of witness) (Signature)
	Aadhaar/ Voter/ PAN/ ID card No (attach copy)
	(ii)
	(Name & Address of witness) (Signature)
	Aadhaar/ Voter/ PAN/ ID card No (attach copy)

4. Accepted for and on behalf of the Commission for Air Quality Management in NCR and Adjoining area by.