

**ICMR-Govt. of AP Grand Challenge Research Award for
CKDu
(Chronic Kidney Disease of unknown origin)**

1. Introduction:

Government of Andhra Pradesh after reviewing the problem of high burden of Chronic Kidney Disease in Uddanam Area of Srikakulam District, constituted an Expert Committee to study the details of the population afflicted with chronic kidney disease of unknown origin (CKDu), to estimate prevalence of the disease, to suggest various interventional measures to contain and control the problem and also evolve research strategies to find out the causes resulting in chronic kidney disease (CKDu), specifically in these areas of the district.

Director General, ICMR & Secretary, Department of Health Research, Govt. of India also constituted a team of Experts to review the issue of Chronic Kidney Disease of unknown etiology (CKDu) in Srikakulam, in response to the directions received from Govt. of India. Both the teams have jointly visited Srikakulam to:

- (i) Review the existing information and identify the research needs to understand the etiology and burden of CKDu.
- (ii) Review the ongoing interventions and recommend primary, secondary and tertiary care interventions for CKDu management.

2. Initial findings and estimates:

- (i) Team reviewed available research studies on the subject and specifically in the affected geography
- (ii) A study conducted in 2005 indicated very high prevalence (47%) of CKDu in the region. This study however used a camp-approach to sample the individuals, which is expected to provide biased estimates.
- (iii) Two recent community based studies (2011 and 2014-16) indicated that the prevalence of CKD was around 15% - 17% in the Uddhanam area in Srikakulam district. These studies covered 1152 and 3938 individuals from 16 and 13 villages respectively.
- (iv) Data available from ongoing screening program by the Government of AP was also analyzed. Among 9000 persons screened, 2,493 (28%) had creatinine > 1.2%. The existing data suggest high burden of CKD in the community. Among patients with elevated creatinine, about 25% were in the stage 4 and 5 (GFR<30) while half of the patients were in the stage 3 (GFR 30-59).
- (v) Research studies have also examined water samples from various affected areas. The analysis indicated normal levels of heavy metals and other elements except Silica.

3. Suggestions from preliminary review:

A set of recommendations broadly in the following four areas were proposed:

- i) Research
- ii) Strengthening CKD screening and management program through standardized algorithms
- iii) Capacity building and strengthening the human resources
- iv) Reduce harmful environment exposures

4. **Grand Challenge Project Architecture:**

In response to the need for focused research, Indian Council of Medical Research (ICMR) in partnership with Govt. of AP has launched the '**Grand Challenge**' for root-causing the etiology of high incidence of CKDu including compilations of interventions for general improvement of health conditions in the area of high incidence. The ICMR-Govt. of AP Grand Challenge shall have the following architecture:

(i). **Objectives of Grand Challenge Research Award:**

The following objectives:

- a. Stage-1 (4 months from the date of award): Mobilization of research team and setting up a research office at Srikakulam for which Government of AP shall provide non-financial support in terms of ensuring availability of rental space for office premises.
- b. Stage-2 (5th -24th month): Undertaking secondary and primary research towards identification and root causing of trigger factor (s) leading to high incidence of CKDu,,besides determining natural history and economic impact of CKDu .
- c. Stage-3 (25th -36th month): Establishing evidence on activities/interventions against CKDu that may have positive impact on health of local population; including interventions that are associated with food habits/farming practices cultivation standards/water/sanitation/hygiene, health seeking behavior/presence of any specific industry/any other causative agency.

(ii). **Time Period for research:** Given that the research project envisaged would be 100% translational in nature and the rapidity of evidence required for understanding the etiology of disease CKDu and factors triggering this disease and associated complications, the total project time period would be 3(three) years with a possible of an extension of 6 months, if at all required.

(iii). **Financial Assistance:** TheGrand Challenge shall be provided with complete funding with Govt. of AP initially along with ICMR technically supporting in reviewing and subsequently monitoring the project as approved by the ICMR-GOAP Joint Steering Committee under the Chairpersonship of Secretary DHR &DG ICMR.If funds are available at ICMR then ,funding can also be jointly shared by ICMR with GOAP.

(iv). **Project Monitoring:** A Technical Advisory Group (TAG) consisting of experts and institutional representatives from ICMR and Govt. of AP shall be mandated with project monitoring and mentoring role for the selected research Group/Institution/Consortium

(v). **Eligibility Criteria:**

- a) An Institution registered as a University/Society/Trust/NGO/Company/LLP (Limited liability partnership firm) but not an individual or a group of individuals are eligible to participate in the Grand Challenge. (Proper documentary proof required to be submitted with application)
- b) The applicant must have a minimum of 5 years of experience in public health research and must have completed at least 3 health research projects, one of which should necessarily be in area of Non-Communicable Diseases (NCDs).
- c) The lead applicant must have a minimum of 5 publications in peer-reviewed indexed journals including published work in the area of CKD

- d) The applicant must be not black-listed by Central/State Government/agency/organization/consortium).
- e) The applicant/Agency/Organisation/Consortium must have a financial turn-over of Rs. 3.00 Crore in each of previous three financial years.

(v) Selection of Awardee:

- a. Only one awardee would be selected under this Grand Challenge Applications of only those that qualify the eligibility criteria shall be evaluated for final selection:
- b. The selection would carry the following weightage:
 - i. 40% for the methodology proposed
 - ii. 30% for the profile and number of research associates proposed by the applicant institute/organization for the project.
 - iii. 30% for the cost of research project quoted by the applicant institute/organization

(vi) Timelines:

- i. Data of Grand Challenge launch- 30th September 2017
- ii. Last Date for Submission of applications-30th October 2017
- iii. Date of announcement of results-15th November 2017
- iv. Date of Project initiation- 1st December 2017

(vi) Contact at ICMR:

The proposal (one electronic copy and 10 hard copies) may please be sent on or before **30th October 2017 Evening 5.30 P.M.-** to Dr.Triпти Khanna (triptikhanna@ymail.com) &/or Dr.R.S.Dhaliwal (dhaliwalrs.hq@icmr.gov.in). Simultaneously please also inform Dr.Jitendar Sharma Health Adviser-Govt of Andhra Pradesh (advisor.hmfw@gmail.com)

While submitting proposal Please write on the Envelope and in the e-mail "Research Proposal – GRAND CHALLENGE-CKDu" in the subject line and send the proposal as an attachment .Hard copies of the project proposals may be sent to:

Dr. Triпти Khanna
Scientist F, Division of NCD
Indian Council of Medical Research
Ansari Nagar, AIIMS Campus
Delhi- 110029
Tel.Ph 011-26588014

(vii) Terms & Conditions:

- a. The total research cost spanning 36 months is required to be quoted by the applicant agency in 'Full amount' excluding GST. The same shall be given 30% weightage as per evaluation criteria defined.

- b. Quarterly project report is required to be submitted by the selected applicant before 1st week of succeeding quarter. The report would be reviewed by TAG for its adherence to project objectives and achievement of deliverables of the previous quarter

- c. The following documents are required to be submitted along with application form as given in appendix attached with this proposal:
 - 1. Application Form
 - 2. Status of the Firm/Registration certificate/ Memorandum of association
 - 3. Income Tax Return of past three financial years; service tax (where applicable) for past three financial years.
 - 4. Balance sheet past three financial years
 - 5. Project Details of work executed in past five years
 - 6. Letters from organizations on behalf of whom, a minimum of three health research projects have been executed with completion
 - 7. Publications in peer-reviewed indexed journals.
 - 8. Self-declaration on institutional letter head for non-blacklisting
 - 9. Research Protocol as available at ICMR web-site (www.icmr.nic.in) for Ad-Hoc Research Format.

- d. **Payment stages:** All payments towards the research project shall be in accordance with 4 (i) –a,b,c which define the project objectives
 - i. 5 % mobilization advance – within 30 days of the project award
 - ii. 30% of total project cost – upon approved of all quarterly reviews by Technical Advisory Group for year1
 - iii. 30% of total project cost – upon approved of all quarterly reviews by Technical Advisory Group for year 2
 - iii. 20% after successful completion and submission of Report
 - 10% of total project cost – upon approved of all quarterly reviews by Technical Advisory Group for year 3
 - iv. 5% after completion of 3 successful publications in indexed peer-reviewed journals.

(ix). Application form (Appendix-I)

PLEASE NOTE THAT DECISION REGARDING SUITABILITY OF THE PROJECT FOR FUNDING AND REJECTION WILL BE TAKEN BY A ICMR-GOAP JOINT STEERING COMMITTEE .THE DECISION OF THIS COMMITTEE WILL BE FINAL & UNCHALLENGEABLE

File No.677250/D2/2017

Receipt No: 677250/2017/TAPPAL

Attachment:icmr-GoAP-GC-CKDu.pdf

ICMR- Govt. of AP Grand Challenge Award for CKDu

Application form (Appendix-I)

Application details	
Name of the Applicant:	
Proposal Reference No: for- ICMR-GoAP)	
Title of the Proposal:	
Financial Due Diligence	
Applicant Type: Company /Society/Trust/NGO/LLP/ University)/Consortium	
Address of the lead Applicant	
Year of Establishment of the Applicant:	
Registration Number of the Applicant	
Any funding availed in the past from DST/DBT/TDB/GITA/DSIR/ICMR:	
Banking Details: No Lien Account	
Operating Bank Account No.	
Bank Branch Address	
IFSC	
PAN	
Comments on the Financial status of the Applicant (Keeping in view the following points) <ul style="list-style-type: none">▪ Turnover of the Applicant-▪ Capital of the Applicant▪ Any legal issues pending as reflectad in the annual report/ annual accounts which will have adverse impact on Applicant' status.▪ Status of assets mortgaged/ hypothecated-▪ Any other Liability	

Signature & Name of Head Applicant

Signature & Name of Head agency

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Infrastructure																			
Does the Applicant have a Laboratory of his/her own(List all the major equipment including Lab details on CI)																			
Is the infrastructure and equipment available with the Applicant adequate for the proposed work?																			
If No, is the Applicant incubated in an Incubator:																			
Name of the incubator:																			
Legal status of the incubator:																			
MoU with the Incubator:																			
If the Incubator does not have a separate legal status, is it associated with any Institute? Give Details																			
Approval of the council/board available.																			
Details of Clinical Infrastructure, hospital facilities available with PI																			
Budget																			
Total Budget Requirement for the Project (over 36 months):																			
Requested Budget Break up	<table border="1"><tbody><tr><td>Heads</td><td></td></tr><tr><td>Equipment</td><td></td></tr><tr><td>Manpower</td><td></td></tr><tr><td>Consumable</td><td></td></tr><tr><td>Rentals/others</td><td></td></tr><tr><td>IP</td><td></td></tr><tr><td>Travel</td><td></td></tr><tr><td>Outsourcing</td><td></td></tr><tr><td>Contingency</td><td></td></tr></tbody></table>	Heads		Equipment		Manpower		Consumable		Rentals/others		IP		Travel		Outsourcing		Contingency	
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Technical

Proposal Objectives, work Plan with Time lines

Activities	Month of start of Activity	Month of End of Activity	Indicators of Progress

Monitoring Activities(for fund release)

Milestone	Month of end of activity	Description

Is any IP License required to carry out the proposed work:

Any regulatory, Environmental or other Clearance required:

Whether the Proposal has Ethics Committee Clearance/Stem Cell Research Committee clearance

Bench Marks at every six monthly interval also needs to be provided to gauge the progress of work

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Human Resource to be involved with the Project			
Name	Qualification	Role in Project	Position

List of Enclosures: (List only submitted enclosures)

- Memorandum and Article of Association
- Audited Balance Sheets/ Annual Reports of all financial years since incorporation, if any
- MoU with the Incubator if applicable
- Registration Certificate of Applicant
- Research Agreements if any

Final Remarks by TAG (For ICMR-GoAP): Recommended/ Not Recommended

Signature(s):

Name(s):

Date:
