



# सीएसआईआर-चौथा पैराडाइम संस्थान

## CSIR-Fourth Paradigm Institute

( पूर्व सीएसआईआर-सी-मैक्स / Formerly CSIR-CMMACS )

एनएएल बेलूर कैम्पस, बेंगलूर

NAL Belur Campus, Bangalore-560 037



CSIR-4PI

No: 4PI/RTI/04/229/2020

24/09/2020

To,

Speed Post

Mr. S Manikandan,

69/1, Nethaji Street Last,

Jaihindpuram, Madurai

Tamilnadu – 625 011.

Sub : Information under the Right to Information Act, 2005

Ref : Your RTI request transferred from CSIR Headquarters dated 03/09/2020, Reference Number CSIRH/R/E/20/00217

Sir,

With reference to your RTI request transferred from CSIR Headquarters dated 03/09/2020, Reference Number CSIRH/R/E/20/00217, received at CSIR-4PI Bangalore on 07/09/2020, seeking information under the Right to Information Act, 2005, the information sought by you is furnished in Enclosure 1.

In accordance with RTI Act, 2005, appeal if any, may be preferred to the Appellate Authority, CSIR-4PI, Bangalore, within 30 days from the date of this communication. The details of Appellate Authority is as under :

Shri R P Thangavelu,

Appellate Authority, CSIR-4PI

NAL Belur Campus,

BANGALORE 560037

Thanking You,

Yours faithfully

( Ashish )

CPIO, CSIR-4PI

## Enclosure 1

Reply to RTI application received, at CSIR-4PI from Mr. S Manikandan, Tamilnadu on 07/09/2020, seeking information under the Right to Information Act, 2005.

SL.No	Question	Response
1.	Separately, please provide the complete consolidated list of only the Focused Basic Research (FBR) Project proposals/Concept Note of Scientists with title, rating value given for the specific concept note by the Research Council (RC) of the respective labs, date of submission, the name of the scientist proposed, and the name of the lab submitted the concept note by each Lab Directors of CSIR in 2018.	Annexure A
2.	Separately, please provide the complete consolidated list of queries (with title, name of the scientist proposed, and the name of the lab the scientist working), which were raised for the resolution of themes by the RPPBDD, onlyfor the FBR Project proposals/Concept Notes that were submitted by each Lab Directors of CSIR in 2018.	NA
3.	Separately, please provide the complete consolidated list of only the Focused Basic Research (FBR) Project proposals (with the title of the concept note, the name of the scientist proposed, the name of the lab the scientist working, total amount, and date of fund sanction) that were sanctioned for block funds by RPPBDD to each lab, after consultation with the theme Directors of CSIR in 2018.	Annexure A

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**Annexure A**

S. No.	Project Details
1.	<p><b>CONCEPT NOTE FOR CSIR – AGRI-NUTRI-BIOTECH THEME</b></p> <p><b>Title of the project:</b> Development of crop viability index maps under different climate change scenarios and design of climate resilient and sustainable agricultural strategies for paddy and finger millet in Karnataka</p> <p><b>Sub-Theme:</b> Agrotechnologies</p> <p><b>Sub-Theme areas:</b> Climate resilient agriculture, Crop modelling, data analytics</p> <p><b>Name of principal investigator:</b> Dr. V Rakesh (CSIR 4PI)</p> <p><b>Nodal Lab:</b> CSIR Fourth Paradigm Institute, Bangalore</p> <p><b>Rating value given for the specific concept note by the Research Council (RC) / CSIR of the respective labs:</b> No communication received</p> <p><b>Date of submission of full proposal:</b> 12 July 2018</p>
2.	<p><b>Full Title of Proposal (Acronym):</b> Configuration and Validation of a Hydro-meteorological Disaster early warning system for major metro cities in India (HDWS)</p> <p><b>Category of Project:</b> FBR (FTT, FTC, MMP, TFL, NCP, FBR)</p> <p><b>Theme (Sub theme):</b> Ecology, Environment Earth &amp; Ocean sciences and Water (Environmental Sciences)</p> <p><b>Total Cost (in crores):</b> 0.73</p> <p><b>Duration (in months):</b> 24 Months</p> <p><b>Contact Details (two persons):</b> Participating Laboratories and external organizations</p> <p>Dr. Gyanendranath Mohapatra Scientist CSIR- Fourth Paradigm Institute (CSIR-4PI) NAL Windtunnel Road, Belur Campus Bengaluru-56 00 37, INDIA PH: 080-25051331(Office) Fax: +91-80-25220392 Mob: +91-9739466574 Email: gnm@csir4pi.in,mgyan0@gmail.com</p>

*Ash*  
24/9/20

Dr. V Rakesh  
 Senior Scientist,  
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 Bengaluru-56 00 37, INDIA  
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**CONCEPT NOTE**

Hydro-meteorological disasters particularly the extreme rainfall events (EREs) and associated flash floods are very frequent over the major metro cities in recent years and most often they result in massive destruction to life and property which in long run make adverse socio-economic impacts over the country. One important, but difficult, scientific challenge which has great societal relevance and a need of the hour is the advance prediction of these hydro meteorological disasters over the urban cities. An approach combining modelling, computing and data analysis is essential for developing advanced warning system for preparedness during such disasters. Mesoscale models are considered as one of the most widely used tools in the simulation and advance prediction of EREs. The prediction over an urban city is generally difficult using numerical models because of the challenges in capturing the effect of urban heating and local convection arising due to large spatial inhomogeneity caused by urban structure and activities. Here, we propose to configure and validate a mesoscale modeling system for advance warning of hydro meteorological disasters for metro cities Chennai, Bangalore, Mumbai and Delhi. An urban canopy model will be coupled with the mesoscale model to incorporate the urban induced effects. The model will be tested under real environmental conditions for validating the skill in future real time applications. The skill of the forecast system will be improved by conducting sensitivity experiments and optimizing initial conditions through data assimilation. The outputs from the forecasting system will be integrated on GIS platform for preparation flood alert warnings over the metro cities.

**Theme “Ecology, Environment, Earth & Ocean Sciences and Water (E3OW)”**

**Recommendations of the Expert Committee to review NCP and FBR category projects**

Configuration and Validation of a Hydro-meteorological Disaster early warning system for major metro cities in India (HDWS)	CSIR-4PI	0.73	A	Confine scope of project to Bengaluru, reduce time and budget accordingly
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*Ash*  
 24/9/20