

**PIU: Technical Assistance & Capacity Building for Disaster Risk Management,**  
**WB UDRP Works Status:-25-11-2017**

S. No	Title	Objective, Outcome and Work to be done	Progress	Tentative Cost
1	<b>Risk Assessment, Modeling and capacity enhancement of USAC</b>	Developing risk information and Creating a 'Digital Risk Database' which comprises data and risk information for disaster events like earthquakes, floods, landslides, flash floods and Industrial hazards for the State of Uttarakhand.	<ul style="list-style-type: none"> <li>• Draft Inception Report was submitted by consultant on 26th August 2016 and Final Inception Report was submitted by consultant on 23rd January 2017 it was approved by the PIU as it was submitted after incorporating all the suggestions made by the TTF members.</li> <li>• The consultant have submitted reports for Tranche 2a and 2b which after Technical review these reports have been approved by the TTF members, IIT Roorkee (Vetting Agency) and PIU.</li> <li>• Two days training workshop on "Orientation in CAPRA and Probabilistic Risk Assessment" held on 5<sup>th</sup> and 6<sup>th</sup> October 2017 at the Consultant office, this workshop was conducted to trained DMMC staff and DDMO.</li> <li>• On 10<sup>th</sup> October 2017, a meeting with TTF members held for discussion on flood hazard modelling at consultant office.</li> </ul>	Final Contract Rs 26.77 Cr (Including taxes)
2	<b>Slope Stabilization Study</b>	Minimum rigorous impact of landslides on infrastructure and protect our habitation from large overflow in rivers during monsoon by treating and stabilizing active and prone slopes along with river training works.	<ul style="list-style-type: none"> <li>• Draft Inception Report was submitted by the consultant on 26th August 2016 and Final Report was submitted by the consultant on 28th September 2016.</li> <li>• Draft DPR's for all the five slopes have been submitted by the consultant at the end of January 2017, comments on these DPR's were submitted to the consultant on 03<sup>rd</sup> April 2017.</li> <li>• First revised DPR reports were submitted by the consultant on 16<sup>th</sup> June 2017, second revised DPR were submitted on 08<sup>th</sup> Aug. 2017, third revision were submitted in end week of August and fourth revision were submitted in first week of October the same was sent to THDC (vetting Agency) for technical vetting. In between a number of meeting held between TTF, Vetting agency and WAPCOS Ltd for finalizing these DPRs.</li> </ul>	Final Contract Rs 1.47 Cr (Including taxes)
3	<b>River Morphology Study</b>	The objective of the morphological analysis is to identify vulnerable area (habitation, public or private infrastructure, agricultural land) where rivers pose threat from morphological changes from episodic events such as excessive rains, cloud bursts and large landslide in the state of Uttarakhand. It is also proposed to develop Uttarakhand River Information Management System (URMIS)	<ul style="list-style-type: none"> <li>• Draft Inception Report for Phase -I has been submitted by the consultant on 21st January 2016 and Final Inception Report for Phase -I was submitted on 11th April 2016.</li> <li>• Draft Data Collection and Survey report for Phase - I were submitted on 29th July 2016 and revised report was submitted on 3rd October 2016 and final report was submitted on 22nd December 2017 after incorporating all the necessary changes.</li> <li>• DPRs are under preparation for 27 Nos vulnerable reaches where flood protection works and river training measures are required.</li> </ul>	Final Contract Rs 13.58 Cr (Exclusive taxes)

			<ul style="list-style-type: none"> <li>• Draft Report on Identification of Vulnerable Reaches was submitted on 13th June 2016 and Final report was submitted on 3rd October 2016 by the consultant after incorporating all the suggestions made by TTF members.</li> <li>• Uttarakhand River Morphology Information system (URMIS) has been developed to help and support the decision makers to make sound decisions.</li> <li>• Draft Inception Report for Phase -II has been submitted by the consultant on 29th August 2016 and Final Inception Report for Phase –II was submitted on 02nd January 2017.</li> <li>• A contract was signed with the IRI, Roorkee on 16<sup>th</sup> January 2017 for the technical vetting of the DPR's, Design, Morphological Models other reports submitted by the consultant under this study.</li> <li>• Draft Data Collection and Survey report for Phase- II was submitted on 06th March 2017 and this report was sent to TTF members on 08<sup>th</sup> March 2017 for the review.</li> <li>• One day workshop on River Morphology studies was organized at Mussoorie on 18<sup>th</sup> May 2017 for better understanding on training work, morphological studies and URMIS.</li> <li>• Draft Data Collection and Survey report for Phase- II was submitted in March 2017 and revised report was submitted by the consultant in June 2017 this report was sent to TTF members and vetting agency for the review. This report is approved by the vetting agency, TTF members and PIU.</li> <li>• A number of meetings held with vetting agency (i.e. IRI) at Roorkee to discuss the methodology of River Morphological report and modeling of rivers.</li> <li>• The consultant have submitted Draft DPR's for Devlibagar on 13th September 2017 and Kaleshwar and the same was forwarded to TTF and Vetting agency on 21st September 2017 and comments on these DPRs were submitted to consultant. Consultant have submitted revised report on 13<sup>th</sup> October.</li> <li>• The consultant have submitted Software Requirement Specification (SRS) for URMIS on 25<sup>th</sup> August 2017, and on 23<sup>rd</sup> September a presentation was delivered by the consultant on URMIS.</li> <li>• The consultant have submitted draft River Morphological report of Mandakini River on 8<sup>th</sup> September 2017 and this report was forwarded to the TTF members and vetting agency on the same day. Comments of TTF members and vetting agency were submitted to the consultant on 09.10.2017.</li> <li>• On 6<sup>th</sup>, 11<sup>th</sup>, 16<sup>th</sup> &amp; 28<sup>th</sup> October meeting held with TTF members and IRI expert for discussion on URMIS and</li> </ul>	
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4	<b>Strengthening Emergency Response Capacity-SDRF (I &amp; II phases)</b>	This will focus on strengthening the capacity of the State's Disaster Response Force (SDRF), fire services personnel and other immediate key response agencies in responding adequately to disaster situations through better search and rescue equipments and enhanced training.	<ul style="list-style-type: none"> <li>Procurement of S&amp;R equipments amounting INR 20.39 Cr has been done for SDRF Phase -I &amp; II.</li> <li>Demonstrations for all equipments proposed under SDRF Phase-III for 16 packages have been completed.</li> <li>The list of the packages to be procured under phase-III of Procurement of search &amp; Rescue Equipments have been finalized for an estimated value of INR 24.08 Cr and has been sent to WB for NOL.</li> </ul>	<p>I Phase-Rs 6.50 Cr (Done)</p> <p>II Phase- Shopping-Rs 4.39 Cr (Done)</p> <p>II Phase-NCB- Rs 9.58 Cr (Done)</p> <p>(Procurement of total Rs 20.39 Cr modern S&amp;R equipments for SDRF force was done till date)</p>
5	<b>Decision Support System</b>	The objective of this effort is to develop and deliver a scalable platform that can enables GoU to effectively prepare, mitigation, respond and recover from future emergencies in Uttarakhand.	<ul style="list-style-type: none"> <li>Earlier two times the bid process was initiated for Design, Development, and Operation of Modular Decision Support System for Disaster Risk Management but due to some administration and Management issues both the bid processes got cancelled.</li> <li>Now new bid process is started after changing the TOR, now this project will be for total 12 months. This was sent to WB for NOL and after receiving NOL from WB the NIT was published in Newspaper on 27th Sept., 2017 and last date of submission of REOI was 27th Oct., 2017.</li> <li>Till last date of submission total 14 Nos of EOI were received and their evaluation is under process.</li> </ul>	Approximate cost Rs 18.00 Cr (Exclusive taxes)
6	<b>Strengthening Hydro-Meteorological Network and Early Warning System</b>	Modernization of the Hydromet observation and information systems in the state. Preparation of DPR for instrumentation of surface equipments and preparation of BOQ and tender document for procurement.	<ul style="list-style-type: none"> <li>Under the project it is planned to install 107 AWS, 25 SFO (combination of Single Stevenson screen + Optical Rain Gauge +Automatic Weather Station), 28 ARG and 16 SG covering all 13 districts of the state.</li> <li>Specification of instruments is finalized with the help of India Meteorological Department. Land to install the instruments is identified with the help of district administration.</li> <li>MOU has been signed between USDMA and IMD on 27.09.2017 for establishment of hydromet network within the state.</li> <li>MOU with ISRO-SAC for modeling of field hydromet data has been approved by ISRO – SAC.</li> </ul>	Approximate cost Rs 60.00 Cr (Exclusive taxes)
7.	<b>Rapid Visual Screening (RVS) / Simplified</b>	With an overall goal of increasing the State Disaster Resilience capacity to be able to increase safety during the times of	<ul style="list-style-type: none"> <li>Under the project 28 teams were made, each team consist of one A.E and one JE and are distributed in all the districts of Uttarakhand. These engineers have collected 12000 Nos.</li> </ul>	Final Contract Rs 3.10 Cr

	<b>Vulnerability Assessment (SVA) / Detailed Vulnerability Assessment (DVA) and Seismic Retrofitting of all Govt. Buildings in Uttarakhand</b>	<p>Disasters, this project aims to ensure seismic safety of all key life line buildings and schools in Uttarakhand.</p>	<p>Public Buildings RVS data and draft report has been sent to World Bank.</p> <ul style="list-style-type: none"> <li>• A consultant DDF is engaged for Seismic Vulnerability Assessment and Preparation of Seismic Retrofitting DPRs of 90 Health Centers for the State of Uttarakhand. Contract with the consultant was signed on 11<sup>th</sup> July 2017.</li> <li>• Kick Off workshop held on 29<sup>th</sup> July 2017</li> <li>• Consultant has submitted draft Inception report on 28<sup>th</sup> August 2017 and first revised report was submitted on 12<sup>th</sup> October and 6<sup>th</sup> November this report was sent to TTF members for the review.</li> <li>• Consultant have submitted SVA &amp; DVA report for four building on 16<sup>th</sup> October, these reports are under review.</li> </ul>	
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