

	Title of Entry	
1.1	Title of Sponsored Work	Heat Island Study: IbValley Industrial Cluster, Jharsuguda, Odisha (Annexure 7)
1.2	Name of TERI SAS Department/ Centre (s) involved	DNR
1.3	Type	Research Project
2.1	Sponsoring Agencies	DFID &TERI
2.2	Location of work/activity	Ib-Valley Industrial Cluster, Jharsuguda, Odisha, India
3.1	List of partnering Institutions involved	TERI
3.2	Lead Partner	TERI
4.1	Begin Date	Dec, 2015
4.2	Completed or Ongoing	March 2018
4.3	End Date	March 2018
5.1	Principal Investigator(s)-- Internal	
5.2.	Principal Investigator(s)-- External	Mr Prasoon Singh, TERI
5.3	Co-Principal Investigator(s) -- Internal	Dr. Vinay S P Sinha, TERI SAS
5.4.	Co-Principal Investigator(s) -- External	
5.3	Associated Researcher(s)--internal	Financial Support to Ms Manisha Singh, PhD Scholar, TERISAS
6.1	Amount Sanctioned	In kind
6.2	Amount received	NA
6.3	In Kind support	Salary of RAs 25,000/Month
7.1	Description of work and activities	Rationale: Provides a comprehensive strategy for mitigation and adaptation of the heat island effect. The sectoral contribution of different sources and sinks

		to heat islands has been analysed to determine where actions can be targeted Objectives: UHI mitigation and adaptation strategies based on the study conducted in this region
7.2	Project Reach, engagements and beneficiaries, if applicable	SDMA, Odisha as Heat Action Plan for Odisha
8.1	List of Publications including dissemination through social media	Policy Brief: 1. Heat Island Effects in Industrial Cluster – Identification, Mitigation and Adaptation, September 2017, TERI, <a href="http://www.teriin.org/policy-brief?search_api_fulltext=prason&amp;field_policybrief_theme=All">http://www.teriin.org/policy-brief?search_api_fulltext=prason&amp;field_policybrief_theme=All</a> 2. Governor Notification of the project: Heat Action Plan for Odisha, 2018 pp 21 <a href="http://ospcboard.org/wpcontent/plugins/publication/uploads/files_1558748478_5800.pdf">http://ospcboard.org/wpcontent/plugins/publication/uploads/files_1558748478_5800.pdf</a>
8.2	Links to Events page, if any	NA
9.	Executive Summary and other documents	Urban Heat Island (UHI) is a situation with elevated air temperatures in urban areas in contrast to their non-urban rural vicinities. The phenomenon is present in all big and small cities around the world with varying intensity. The industrial agglomeration of Ib-valley in Jharsuguda faces the problem of heat island effect which may be attributed to changes in land cover, energy intensive industrial activities, mining, etc. The Ib-valley region of Jharsuguda is one of four identified UHIs (Jharsuguda, Titlagarh-Balangir, Angul-Talcher, Bhubaneswar) in the state of Odisha. It has been observed that there is a steady build-up of heat in the region, over the years, resulting in higher night time temperatures. Therefore, it is important to develop mitigation strategies to reduce the causes of UHI and adaptation strategies to cope with the heat stress. The key challenges to implement these strategies are primarily related to proper execution of industrial and institutional framework as well as inadequate drive, capacity, and awareness among the institutions and the affected population.

Note. Per sponsored projects, this document in .doc (and not .docx) and enclosures may be zipped together and sent to iqac@terisas.ac.in, preferably in a single mail per department. Completed Projects between July 1, 2015 and July 2020 may be sent first.