



2013 Annual Project Review (APR)

Project Implementation Review (PIR) OF UNDP Supported GEF Financed Projects

PIMS 1024 - Project Title: Mainstreaming the conservation and sustainable use of medicinal plants in three Indian states

Focal Area	Biodiversity
Lead RTA	
Lead Country(ies)	(IND) India
Revised Planned Closing Date	30-Sep-2014
Overall Risk rating	Moderate
Overall DO rating	Satisfactory
Overall IP rating	Satisfactory
GEF grant amount disbursed so far	3,471,404

Project Summary

India's forests are the primary source of over 95% of medicinal plants used by the country's herbal industry. However, these resources are increasingly threatened by overexploitation, and wild harvesting remains largely uncontrolled and unmonitored. This project aims to achieve a long-term conservation, sustainable and equitable use of India's medicinal plant diversity, particularly of its globally significant species, by mainstreaming these objectives into forest management policy and practice at the national, state and local level in three Indian states: Arunachal Pradesh, Chhattisgarh and Uttarakhand. The project also aims to mainstream the conservation and sustainable use of medicinal plants into the productive forest sector of Arunachal Pradesh, Chhattisgarh and Uttarakhand, with particular reference to globally significant medicinal plants (GSMPs). The project aims to create an enabling environment at the national and state levels for mainstreaming the conservation and sustainable use of Medicinal and Aromatic Plants (MAPs) into forest management policies and practices. At the local level, the project aims to mainstream MAPs into government and community forest management norms and practices at demonstration sites in the three states.

UNDP-GEF Technical Advisor's Comments

Explanation for change to Overall DO Rating or Overall IP Rating:

Is this the terminal PIR that will serve as the final project report? No

If the mid-term review (MTR) OR the terminal evaluation (TE) was started but not completed this reporting period, please explain how these are progressing and note if any delays are expected:

If the mid-term review (MTR) OR the terminal evaluation (TE) was completed this reporting period, or if this is the final APR/PIR, please address the following points here:

UNDP Country Office's Comments

If the mid-term review (MTR) OR the terminal evaluation (TE) was started but not completed this reporting period, please explain how these are progressing and note if any delays are expected:

If the mid-term review (MTR) OR the terminal evaluation (TE) was completed this reporting period, or if this is the final APR/PIR, please address the following points here:

Dates of Project Steering Committee/Board meetings during reporting period: January 2013

PROGRESS TOWARD DEVELOPMENT OBJECTIVES

Description	Description of Indicator	Baseline Level	Target Level at end of project	Level at 30 June 2009	Level at 30 June 2010		Level at 30 June 2012	Level at 30 June 2013
Objective: To	Forest area actively	0 hectares. Criteria for	c.32,000ha of forests in	0	21 MPCAs/ FGBs	The criteria for	1) In the 21	A total of 5,666.09 hectares are
mainstream	managed for	what constitutes active	21 MPCAs/FGB		identified in three	what constitutes	MPCA that have	protected through 19 Medicinal
conservation and	sustainable use of	management to favour	complexes primarily		project states. (1. An	active management	been identified	Plant Conservation Areas (MPCAs).
sustainable use of	MAPs and maintenance	sustainable use and	managed for		area of 8680.84 ha in 7	of forest to favour	and demarcated	The per-state breakdown of
medicinal plants,	of MAP diversity.	maintenance of MAP	sustainable use and		sites in Uttarakhand. 2.	sustainable use and	under the project	hectares protected as MPCA sites
including GSMP into		diversity to be	conservation of MAPs.		An area of 10,500 ha in	maintenance of	earlier,	are as follows: in Arunachal Pradesh
the productive sector		determined and agreed	A further 6,000,000 ha		7 sites in Arunachal	MAP diversity has	management	1543 ha; in Chhattisgarh 2331.28
of three Indian states:		with key stakeholders	under management		Pradesh. 3. An areas of	been developed	actions such as	ha; and in Uttarakhand, 1,791.81
Arunachal Pradesh,		such as State Forest	that favours		2331 ha in 7 sites in	and accepted by	prohibition of	ha. In the three project states
Chhattisgarh and		Departments in Yr 1	maintenance of MAP		Chhattisgarh.)	the stakeholders.	grazing, protection	approximately 10156 ha of land has
Uttarakhand.			diversity, including			The following has	against forest	been planted with various
			GSMPs			been done to	fires, creating	medicinal plants including GSMPs.
						achieve the set	pathways,	National Medicinal Plant Board is
						targets: a) the 21	removal of	independently undertaking
						identified MPCA	invasive and alien	resource augmentation in all states
						sites have now	species, and	of India including the project states.
						been demarcated	erection of	NMPB has reported plantations and
						in the field in all the	signage has been	gap filling in forest areas in more
						three states; b) the	initiated.	than 20,000 ha. Further, the
						population of the	Management	recommendations of a National
						Globally Significant	plans for the	Consultation on National Forest
						Medicinal Plants in	MPCAs are being	Working Plan Codes (NFWPC) have
						these MPCAs have	prepared.	been included as a chapter in the
						been identified;	2) 25 MPCAs	draft guidelines for NFWPC by the
						c)One season of	declared in India	MoEF. The inclusion of medicinal
						Botanical survey	including a few	plants in the NFWPC would lead to
						has been	from the current	management of forests to favour
						completed in 12	project have been	maintenance of MAP diversity
						MPCAs to	proposed as a first	including GSMPs.
						inventorise the	list of MPCAs to be	
						presence of MAP	declared as	
						species. d)A	National heritage	
						methodology to	sites to NBA under	

		[
						monitor the	the Biological	
						Ecological health of		
						the selected GSMPs		
						in the MPCAs has	surveys to	
						been finalised in	inventorise the	
						consultation with	MAPs for all 21	
						the Forest	MPCAs have been	
						Department of the	completed for two	
						3 states; e) Based	to three seasons.	
						on the	4) The ecological	
						methodology, the	data for the	
						ecological survey of	Globally	
						these GSMPs has	Significant	
						been completed in	Medicinal Plants	
						4 MPCAs in	(GSMPs) and	
						Uttarakhand. f).The	associated species	
						management of the		
						MPCAs based on	and is being	
						the identified	analysed for 18	
						criteria has	MPCAs.	
						commenced. Some		
						of these criteria		
						include -		
						prohibition of		
						, grazing, regulation		
						of collection of		
						MAPs/ NTFPs and		
						protection of these		
						species from forest		
						fire by creating a		
						fire line.		
	Natural canopy cover	Bi-annual district-wise	Canopy cover	0	The exact forest and	1300 sq hectares of	It is difficult to	It is not feasible to assess the
		data on canopy cover	maintained or		canopy cover of the	forest area has	assess the	improvement in the canopy cover
		status as available from			project districts are	been set aside as	improvement in	under the MPCA sites. The Forest
	-	Forest Survey of India.	approporiate in each		being collected from	forest gene Banks		Survey of India typically records
	management for		project site. Exact		Forest Survey of India	in each MPCA site	of small areas	data state-wise but does not cover
	maintenance of MAP		target will be set after		as per the latest	in the 3 states.		district or village-level areas as
	diversity.		baselines are updated		assessment 2009. The	Botanical and	project for	captured under MPCAs.
			for the forests in which		baselines to set after	ecological surveys	protection and	
1 '					Suscanes to set arter	ccological sulveys	protection and	

	the 21 FGBs/ are situated.		obtaining this data.		augmentation activities.	
selected MAP species stat including GSMP within ove FGB/MPCA complexes. For der dat will Sim are and asso pop	nalitative population itus indicators for er 50 species known. r trees and shrubs nsity per unit area, ta not available, and Il be monitored. nilalrly for herbs, eas of occurrence d qualitative sessment of pulation status also Il be monitored. De monitored. Seas of occurrence d qualitative sessment of pulation status also Il be monitored.	specificbeen identified ingthe three projecttypes ofstates and projectdicator tostaff trained byed in yearthe Foundationn stabilityfor Revitalisatiorpeciesof Local HealthorTraditions.	h developing a protocol for monitoring the population status of selected MAP species has been initiated. Identification of GSMP species almost completed in all the three Project States. Key population of GSMP species identified in the MPCAs of three states. Capacity building for inventorisation and methodology & protocol to coduct the ecological studies in the identified areas initiated. FRLHT has started imparting technical capacity development to project staff and communities on establishing monitoring protocols.	GSMP species finalise, Arunachal Pradesh (24), Chattisgarh (14), Uttarakhand (35). B) Each of the MPCAs have been assigned with Flagship GSMP species based on its viable population; Arunachal Pradesh (09), Chattisgarh (11), Uttarakhand (13). c) Technical agency to carry out the botanical and ecological studies has been identified and awarded. d) The monitoring ecological methodology has been finalised. e) Data collection on the population status of GSMPs	study has been done in four MPCA in Arunachal Pradesh. The survey in Tezu- Parsuram kund MPCA revealed that Gynocardia odorata, Duabanga grandiflora and Callicarpa arborea, Terminalia myriocarpa are the important species with high density and	Population status of medicinal plant species is being monitored in 3 MPCAs in Arunachal Pradesh, 7 in Chhattisgarh, and 2 in Uttarakhand. Population stability and improvement can only be ascertained after a few seasonal ecological and botanical surveys. The data generated during last year would be analysed to assess the change in population densities of select medicinal plants. The actual impact of MPCA on the population status of select Medicinal Plants may be visible only after 5 years of establishment of the sites.

	coming year.	completed in 7	Mayodiya MPCA
			population survey
			of 17 tree species,
			22 shrub and 26
		•	herbs were
		been developed of	
		the front line forest	
			Coptis teeta ,
			Panax sikkimensis,
			Podophyllum
			hexandrum,
			Valeriana
			jatamansi etc. In
			Kanubar-Wannu
			MPCA, the
			dominant species
			are Litsea cubeba,
			Gynocardia
			odorata and in
			Bomdial MPCA
			species such as
			Illicium griffithii,
			Swertia chirayita,
			Valeriana
			jatamansii are
			abundant. In
			Chhattisgarh,
			ecological survey
			was carried out in
			7 MPCAs. A total
			of 217 species
			belonging to 64
			different families
			were recorded.
			This includes 66
			tree species, 16
			shrubs, 110 herbs,
			27 creepers and
			climber species.
			The ecological

Population status of selected MAP including	Available generic protocols will be		A methodology has	-	Proposals have been solicited by Arunachal Pradesh and Uttarakhand
GSMP species in wider exploited forests surrounding FGB/MPCA complexes	adapted to develop species specific protocols with appropriate types of ecological indicators for specific species established in Yr 1. Population stability of selected species maintained or improved as measured against baseline	completion in project states. Once the setting up is over, this activitiy will be carried out during the coming years.	population status of MAPs in the forests surrounding the MPCAs and FGBs; botanical surveys have been	areas surrounding the MPCAs have been carried out. The ecological surveys for these areas are yet to be commissioned.	for carrying out Rapid Mapping Exercise in the wider forests areas. Chhattisgarh had created a medicinal plant population database under a project funded by National Medicinal Plant Board in 2006. The change in population of medicinal plants in Chhatisgarh may only be assessed after a gap of at least ten years after documentation of baseline i.e. in 2016.

					Arunachal Pradesh		
					(05), Chhattisgarh		
					(10 shortlisted - 06		
					will be finalised),		
					Uttarakhand (05).		
					c) Task teams		
					involving collectors,		
					traders, forest staff,		
					folk healers and		
					Gram sabha		
					members have		
					been formed. d)		
					Capacity building of		
					collectors on		
					sustainable		
					collection process		
					has been		
					completed.		
	-	Sustainable harvesting	0		a) MPCAs and FGBs	-	Sustainable collection protocols
species including GSMP		of 5 heavily exploited		up of MPCAs/ FGBs are	have been	species for	have been developed for 11
	takes place are known.				demarcated , Local		medicinal plant species. Three
		of project.		project states. Once the	-	sustainable	medicinal plant species are being
		Monitoring protocols		setting up is over, this		harvesting regims	collected sustainably as per the
		developed for		activitiy will be carried	stakeholder groups		protocols. To monitor harvesting,
		monitoring harvesting		out during the coming		through base line	task teams have been established
	are broadly known, but	-		years.		surveys organised	and for all states collectors have
		annually				at 3 project states.	been identified. To strengthen
	assessments are not available.					2) Two sites per state were	monitoring skills, the task team, the
	Identification and						SMPB, and State Forest Department officials have been taken on
	definition of indicators				local healers etc for managing the FGBs.		exposure visits.
	of 'sustainable				Globally significant		caposule visits.
	harvesting' &				med plants found in		
	monitoring protocols				these MPCAs/ FGBs	•	
	to be defined in year 1					for selected	
	Sites where harvesting				identified and their		
	of GSMP populations					3) Orientation	
	takes place are known.				-	program	
	Harvesting practices				-	organised for 3	
	01				, ,	.	

· · · · · · · · · · · · · · · · · · ·					
	for some of the highly			states and field	
	traded plants along		Trainings and	exposure visit	
	with general impacts			organised for	
	are broadly known, but		programmes for	Uttarakhand	
	comprehensive		LMG members on	team.	
	assessments are not			4) In Uttarakhand	
	available.		-	species selected	
	Identification and			for development	
	definition of indicators		identification and	of methodology	
	of 'sustainable		vegetation	are put under	
	harvesting' &		monitoing have	collection,	
	monitoring protocols		been conducted in	marketing and	
	to be defined in year 1		the three states. B)	other post	
				harvesting	
				technologies s per	
			the three states for		
				of the project.	
				They are also	
			observations,	, monitaring the	
				impact of	
				harvesting on	
			composition	ecological,	
				economics and	
			, action plan is being		
				sustainabality.	
			Botanical Task team		
			with the help of		
			local community		
			members who		
			arebeing trained		
			through a Village		
			Botanist Course. C)		
			The technical		
			Project		
			management Unit		
			of the project		
			under the Ministry		
			-		
			of Environment and		
			Forest has		
			developed a		

 				[1
					Collection Manual		
					on Sustainable		
					harvesting of		
					identified species		
					(15) for the three		
					states. Field testing		
					of this manual is		
					being in		
					Uttarakhand has		
					been done by		
					involving the key		
					stakeholders - local		
					med plant		
					collectors, front		
					line staff of the		
					Forest dept, local		
					traders. Operation		
					for collection will		
					start soon.		
					50011		
Increase in area under	Isolated examples of	At least 5000 ha of	0	The project is still in the	State Medicinal	Studies have been	In the three project states, a total
different MAP species	cultivation over limited		-	initial stages to report	Plant Boards in the	commissioned by	area of 10,156 ha is under
		different MAP species		any visible impact in	three states have	each of the three	cultivation for various medicinal
government		under private, common			started undertakign		plants including GSMPs under
programmes		and marginal or		this aspect.	ecological		private, common and marginal or
programmes		degraded lands owned			-		degraded lands owned by various
		by various Govt Depts			MPCAs on a	-	Govt Depts such as Forest and
							private owners. In Arunachal
		such as Forests, and private owners.			the areas have		Pradesh a total of 4311 ha is under
		private owners.				The following	
					started showing	agencies have	cultivation of MPs, including:
					-		Emblica officinalis, Moringa
					in the population of		oleifera, Taxus wallichiana,
					some species.	1) Institute of	Xanthoxylum armatum, Rubia
					,	Ayurveda and	cordifolia, Paris polyphylla, and
					are being made by	Integrative	Illicium griffithii. The State
					other agencies such		plantations on Forest and public
					as the Botanical	for Arunachal	land was 2009-10: 1000 ha, 2010-
					Survey of India to	Pradesh	11: 177.3 ha, 2011-12: 244, 2012-
					also suggest areas	2) Covenant	13: 2790 ha. In Chhattisgarh a total
					for planting certain	Centre for	of 1317 ha is under cultivation

				threatened species in Arunachal Pradesh.	Development (CCD) for Chhattisgarh and 3) The Energy Resource Insitute for Uttarakhand. All the three agencies will submit their final reports by October 2012.	these include some GSMPs. One hundred ha are under cultivation of 10 medicinal plant species for roots, 485 ha of plantation of Terminalia chebula, Terminalia bellirica and Embilica officinalis, 140 ha of Lawsonia innermis, 592 ha of other medicinal plants. In Uttarakhand, a total area of 4527.84 ha is under cultivation of medicinal plant species such as Embilica officinalis, Cinnamum tamala, Picrorhiza kurrooa, Aconitum heterpohyllum, and Saussurea lappa. The area coverage in 2008-09 : 1091 ha, 2009-10: 2080 ha; 2010-11: 710 ha and 2012-13: 72 ha. Cultivation is being taken up 6 farmers for Picrorhiza kurroa and Saussurea lappa covering 1.5 ha of land. Cultivation is set to increase as an additional 63 farmers have been registered with an area of over 5 has of land.
Increase in number of MAP species used in afforestation / cultivation programm	10% of species are known to be cultivated sporadically in the es state.	Based on the life history strategies of each species and habit, an additional 5 – 7 highly marketed species will be brought under cultivation. These may include herbacious rhizomatous species and species amenable for asexual propagation	any visible impact in this aspect.	study to identify	commissioned by each of the three project states to list the species of MAPs that may be included in Govt.	The final reports of the study commissioned to identify the additional highly marketed medicinal plant species that can be viably brought under cultivation have been received from all 3 states. For Arunachal Pradesh, FRLHT has identified 27 species suitable for cultivation under different afforestation programs. Detailed lists that consider district, altitute, and conservation status have been compiled and plantation techniques cognizant of these factors have been prepared. For

							Medicine, FRLHT for Arunachal Pradesh 2) Covenant Centre for Development (CCD) for Chhattisgarh and 3) The Energy Resource Insitute for Uttarakhand. All the three agencies will submit their final reports by October 2012.	Chhattisgarh, the Covenant Centre for Development (North) has prioritized 9 species for cultivation and 22 species for plantation. For Uttarakhand, The Energy Resources Institute (TERI) has developed a list of 101 species for cultivation, 25 of which have been prioritized based on marketability. Separate lists were compiled for low and high altitude regions and nursery and plantation techniques for the species are being developed.
An enabling environment at the	National forest policy revised to favour	No specific focus on MAPs in national forest	Revised national JFM	In August 2009, Arunachal	Extensive technical consultations were held		1) A study under Output 1.1, to	There are number of initiatives under the project to mainstream
national level for	sustainable use and	policy. Eg JFM	guidennes	Pradesh		0	• •	conservation and sustainable use of
mainstreaming the	conservation of MAPs.	Guidelines do not		conducted a	mainstreaming the		strategy	medicinal plants into forest policies
conservation and	conservation of wars.	address sustainable		workshop on	conservation and		document on	and practices at the national level.
sustainable use of		use or conservation of		policy related	sustainable use of MAPs		management of	These are as follows: 1) Under
MAPs into forest		MAPs		matters of MAPs.	into forest management		medicinal plants	Output 1.1 a National Strategy for
management policies				Reports of	policies and practices	Management,	resources of the	conservation, cultivation and
and practices				existing	and as a follow up of		country, endorsed	sustainable use of medicinal plants
				regulations on	these meetings, 5	•	by MoEF, MoRD,	is being developed. Thiswas
				collection,trade	Terms of References	on Joint Forest	ICAR, NMPB,	presented in a side event during
				and transit	(ToRs), looking at		CIMAP, DST, DBT,	11th Conference of Parties 2012.
				prevailing in the	various aspects of the	-	NBA, and industry	Five National Consultative meetings
				state were	preparation of draft	•	that addresses	were organized under issue based
				deliberated.	National Strategy for	inception workshop		themes. The final draft of the
					the strengthened		sustainable use,	national strategy was submitted to
					conservation of MAPs	consultative	research	UNDP and Ministry and will be
					(including revision of	meetings (in Pune	directions and	peer-reviewed by experts. 2) A
					JFM Guidelines) have	and Bhopal) to get	cultivation of	National Consultation was
					been prepared and	the views of a	medicinal plants	organized on 'Legal and Policy
					finalised. The process of	range of	of India has been	Framework for Medicinal Plants and
					selection of competent	stakeholders on the	commissioned to	Associated Traditional Knowledge in
					agencies for	JFM policy and its	IAIM, FRLHT.	India' the recommendations of the

undertaking these task	gans vis-a-vis	2) An interim	consultation have been shared with
	medicinal plant	-	the Ministry of Environment and
is in progress. Indian	-	report has been	
Institute of	conservation,	received from	Forests. 3)A Long-term strategy
Management, Bhopal		IIFM, Bhopal	for threat assessment of MAPs is
has been identified as	cultivation. The	highlighting the	being developed. Under this
the lead agency for the		outcomes of the	initiative Training of Trainers
revision of JFM	national strategy on		manual is under compilation.
Guidelines.	conservation,	level consultations	Outline of the draft strategy on
	sustainable use and	on JFM issues	threat assessment is prepared with
	cultivation of MAP	under Output 1.2	6 objectives and 10 targets. Plant
	was advertised but	3) The 5th NPSC	information was compiled for 2
	no suitable agency	had	selected endemic species as per the
	was found. This	recommended	IUCN Species Information Service
	study is being	commissioning of	(SIS). A link has been established
	readvertised now.	a study under	with Species Survival Committee for
		Output 1.4 by	Medicinal Plants, Specialist Group
			and Red List Unit (RLU), IUCN. 4) A
		Plants Board as	course module introducing legal,
		part of the	policy issues and practices on
		governments co-	Medicinal Plants is being developed
		finance	for officers of the Indian Forest
		commitment to	Service. 5) A study has been
		the project. The	commissioned to identify gaps and
		dialogues with	revise the JFM guidelines. The study
		NMPB have been	is on-going. 6) National Forest and
		initiated in this	other policies/laws affecting the
		regard.	medicinal plants sector have been
		4) A study has	reviewed by an agency
		been	commissioned by Arunachal and
		commissioned to	Uttarakhand. The draft report of
		I-AIM for	the agency have been shared with
			0,
		developing a long	MoEF for peer-review and further
		term strategy for	necessary action.
		rapid threat	
		assessments of	
		MAPs using IUCN	
		guidelines under	
		Output 1.6. The	
		first Consultation	
		workshop under	

							the study had]
							•	
							been organised by	
							IAIM for scientist,	
							experts and forest	
							officials on 14 and	
							15 June 2012.	
							5) The study to	
							develop a course	
							module on	
							Conservation and	
							Sustainable Use of	
							MAPs for Indian	
							Forest Service	
							Officers under	
							Output 1.7 is	
							being negotiated	
							with Indira Gandhi	
							National Forest	
							Academy.	
	0 1 1	Limited technical and	Capacity needs		NMPB through various	The PSC meeting	A joint study	A draft report for Strengthening of
		institutional capacity to		-	national schemes of the		•	the National Medicinal Plants Board
	Medicinal Plant Board	fulfill key parts of its	Medicinal Plants Board	decided that an	Department of Ayush	2010 took the	and Output 2.5	to act as a nodal agency for the
	. ,	mandate such as	at inception phase.	expert committee	(Central Ministry) has	decision that since	has been	medicinal plants sector has been
	mandate	assessing supply of	Targeted capacity	be constituted to	initiated action on	the NMPB has	commissioned to	submitted to the Board for their
		-	development of key	look into the	capacity development	sufficient funds for	Insight	consideration and consequent
		managing supply and	staff based on results	capacity building	using own resources.	capacity	Development	action.
		demand and	of capacity assessment	measures for the	They have not used	development	Consultancy	
		particularly for	in year 2 and year 3.	NMPB and a work	project resources for	activities, the funds	Group for	
		intersectoral national	Mechanisms for	plan be	supporting capacity	allotted for this	developing a	
		coordination	assessing supply and	formulated. This	development activities.	component could	capacity	
			demand of MAPs		•	be re-allotted for	development	
			developed and	up by the PMU.	be discussed during the	some other	framework for the	
			adopted by NMPB by		Mid Term Evaluation of	purpose based on	NMPB and the	
			Yr 5. Mechanisms for		the project and	the	three project	
			intersectoral		adjustments made	recommendations	States SMPBs. An	
			coordination		accordingly in the	of the mid term	interim report has	
			developed and		project design and	review. NMPB has	been received	
			functionng effectively		budgets.	sufficient resources	highlighting the	
						of its own to	gaps and needs	
L I				L		L	I	

		hu Vr 2			support the	for stronghtonin-	
		by Yr 3				for strenghtening	
						of the SMPBs of	
						Chhattisgarh and	
						Uttarakhand. The	
					•	report has been	
					supports work	sent for review to	
					across the country	a team of 5	
					by engaging	experts. iDCG has	
					consultants and	also submitted a	
					commissioning	template for	
					studies which are of	recording the in-	
					particular relevance	kind contributions	
					to conservation and	of the government	
					cultivation of MAP	to the project. This	
					species.	has been	
						circulated to the	
						three project	
						states and MoEF.	
Greater intersectoral	No formal intersectoral	An intersectoral	0	The project is still in its	In the PSC held in	1) A study under	The project has taken some
cooperation at national	cooperation in relation	technical coordination		initial stages and initial	December 2010, it	Output 1.1, to	initiatives to develop inter-sectoral,
and state level to	to MAPs to date.	committee established		consultations have been	was unanimously	develop a National	inter-ministerial and inter-
achieve sustainable use	However, State and	and functioning in		started at national and	decided to invite	strategy	departmental linkages. These are as
and conservation of	Central agencies	each of the project		state levels with various	representatives	document on	under: 1) The project is closely
MAPs	involved with	states by end of Yr 2		Departments and	from the Ministry	management of	associated with the Expert
	medicinal plants issues	A National Strategy for		Ministries for having	of AYUSH (National	medicinal plants	Committees and Steering
	have been identified	the Sustainable Use &		greater inter sectoral	medicinal Plants	resources of the	Committees of National Biodiversity
	and committed	Conservation of MAPs		coordination on the	Board), National	country, endorsed	Authority (NBA) and National
	themselves to provide	signed off by at least 3		conservation and	Biodiversity	by MoEF, MoRD,	Medicinal Plants Board (NMPB) and
	their expertise for	central ministries		sustainable use of	Authority and the	ICAR, NMPB,	Foundation for Revitalisation of
	coordinating project	including MoEF and		MAPs. This aspect will	Botanical Survey of		Local Health Tradtions (FRLHT). The
	components	MoH by Yr 4 End of		be strengthened during	-	NBA, and industry	Project also participates in Expert
		project policy and		the the coming years.	PSC to develop and		meetings called by both
		sector review			strengthen the links		Government and Non-Government
					-	sustainable use,	Institutions. Further, the technical
						research	support for the project is provided
					•	directions and	by FRLHT which is a Centre of
					has been a	cultivation of	Excellence for MoEF and Ministry of
					discussion to invite		Health. The various Government
						of India has been	Ministries/Departments/Institutions
					- opi cocintativeo		in the second se

		also from the		such as NMPB, NBA, Ministry of
		Ministry of	IAIM, FRLHT.2)	Rural Development, Botanical
		Commerce and the		Survey of India etc. are represented
		Ministry of Rural		on the National Project Steering
		Development to	commissioning of	Committee which provides the
		explore the links	a study under	inter-sectoral linkages. 2) A draft
		with trade and also	output 1.4 to	inter-sectoral national strategy for
		links with the	develop criteria	conservation and management of
		government prog	for selection of	medicinal plants is being prepared
		on Rural	species for	in consultation with the various
		employment	inclusion in the	Ministries/
		guarantee prog	government	Departments/Institutions. The
		thru reafforestation	planting programs	Ministries and Technical institutions
		and watershed	through NMPB. 3)	contributed to the drafting of the
		development. A	With the support	National Strategy by participating in
		dialogue has been	from NBA and	three issue based thematic
		initiated with	SBBs of 2 project	consultations. 3) A national
		senior government	states namely	consultation on 'Legal and Policy
		-	Uttarkhand and	Framework for Medicinal Plants and
		of Rural	Arunachal Pradesh	Associated Traditional Knowledge in
		Development.	have initiated the	India' was organized. Various
			process of	ministries/departments, NGO,
			converting LMGs	Technical Institution, Autonomous
			into BMCs under	Government Institutions provided
			the BD Act 2002.	their inputs for drafting a sui-
				generis regime on TK protection
			discussion has	and other policies. 4) Partnerships
			been initiated to	with the State Biodiversity Boards
			provide linkage of	and State Forest Department,
			interministerial	Horticulture etc. were established.
			and inter-sectoral	In Chhattisgarh, letters have been
				sent to Chhattisgarh Biodiversity
			translation of	Board requesting it to establish
			policy	Biodiversity Management
			interventions and	Committees in the MPCA areas.
				Similarly, in Arunachal Pradesh,
			lessons learnt	BMC is functional in two MPCA
			from the project.	sites. In Uttarakhand, 7 BMCs are
			nom the project.	
				constituted in the vicinity of MPCA

							sites.
Strengthened a	-	o Appropriate legal	0	Focussed Technical	Terms of Reference	The Energy	The Energy Resources Institute
legal mechanis	ms to not relate to medicir	al mechanisms and		Group Consultations	were finalised and	Resource Institute	(TERI) has submitted the final
protect commu	inity plants	measures that build on		were held at national	advertised based	has submitted an	report on legal mechanism to
interests over M	MAPs	existing mechanisms		level on this aspect. As	on which an agency	interim report	protect TK related to harvest,
including IPR		identified and		a follow up, it was	(The Energy	under Outputs 1.3	cultivation and use of MAPs. The
		developed in in years 3		decided to have a	Research Institute)	and 2.4, which is	institute has also drafted a sui
		& 4 and adopted by the		detailed study on this	has been selected.	being subjected to	generis regime for TK on Medicinal
		end of the		and develop the	TERI has conducted	peer review. The	Plants in India by keeping the draft
				strategy based on that.	a national inception	interim report	TK Rules under the Biological
				Accordingly, ToR for	workshop and	gives a brief	Diversity Act as the foundation.
				developing a strategy	developed an	analysis of	
				that deals with the	action plan to carry	International	
				protection of traditional	out the study. A	treaties, (for	
				knowldege has been		example;	
				prepared. The process	stakeholder	Convention on	
				of selection of	consultations have	Biological Diversity	,
				competent agency for	been completed.	(CBD), Trade	
				undertaking this task is		Related Aspects of	
				in progress.		Intellectual	
						Property Rights	
						(TRIPS), and	
						Nagoya Protocol	
						etc) as well as	
						national	
						legislations, laws	
						and regulations	
						(for example; The	
						Biological Diversity	
						Act 2002, The	
						Wildlife	
						(Protection) Act	
						1972, Forest	
						Conservation Act	
						1980, The Indian	
						Forest Act 1927,	
						Protection of Plant	
						Varieties and	
						Farmers' Rights	

							Act 2001, The Scheduled Tribes and Other Forest Dwellers (Recognition of forest Rights) Act 2006, Panchayat (Extension to Scheduled Areas) Act 1996, The Geographical Indications of Goods (Registration and Protection) Act 1999).	
Forest management policies in the three project states that promote and support the conservation and sustainable use of MAPs	State forest policies reviewed to favour sustainable use and conservation of MAPs.	in key state forest policies. Eg JFM	Revised JFM orders/circulars with stronger focus on conservation of MAPs. Nature of required revisions to be determined based on policy analysis on year 1. Forest division work plans in project disricts revised.	been assessed and reviewed in Arunachal Pradesh, one of the three project states. The other two project states are in the process of initiating analysis of their relevant state policies. In Uttarakhand work is already initiated, with the state government providing an enabling	In Uttarakhand experts were hired to look into the forest policy issues related to MAPs. The draft report prepared by them (after extensive consultations) is now being reviewed by an expert Committee at the State level. Further, an expert has been hired in Uttarakhand for the documentation of Traditional knowledge. In Chhattisgarh, a Compendium on Rules, policies and strategies for mainstreaming the conservation of medicinal plants is prepared. This review report includes JFM	studies to achieve the given target. while Arunachal has commissioned	have been commissioned by the 3 project states under Outputs 2.2 and 2.3 individually to Enviro Legal Defence Firm. ELDF has submitted an interim report for the state of	For two states (Arunachal Pradesh and Uttarakhand), draft strategies have been prepared and are being peer-reviewed. In Arunachal Pradesh and Uttarakhand, the agency has submitted a policy brief after reviewing the National and State level Laws and Policies for consideration of State Government. Forest Division Working Plans in Arunachal Pradesh (2 divisions), Chhattisgarh (2 divisions) and Uttarakhand (1 division) are being revised so as to include conservation and management of Medicinal Plants.

Page 18 of 55

			support.	rules, conservation	the national level.		
				rules, Traditional	b) The inception		
				knowledge and IPR	workshop for these		
				issues, etc.	studies in		
					Arunachal Pradesh		
					is done. This		
					workshop		
					highlighted the		
					action plan and also		
					conducted a		
					stakeholder		
					analysis. ELDF has		
					completed the desk		
					review process.		
Strengthen capacity of	Limited to non-existent	Over 80% of SMPB	The State	Around 20 per cent of	Uttarakhand State	A joint study	Insight Development Consultancy
SMPBs to fulfil the	capacity. Capacity	management and	Medicinal Plants	the staff from project	Medicinal Plant	under Outputs 1.5	Group (iDCG) submitted a final
mandate	needs of each SMPB to	technical level staff to	Board of	states have undergone	Board has done a	and Output 2.5	report to the NMPB and the project
	be assessed by year	be sufficiently trained	Arunachal	capactiy development	rapid assessment of	has been	state SMPBs on developing a
	2/qtr2.	to deliver their	Pradesh and	programmes by now.	their capacity gaps	commissioned to	capacity development framework
		mandate by year five.	Uttarakhand are	These include: 1.	and identified the	Insight	for the NMPB and the three project
			in the process of	Project Staff from	issues to be	Development	state SMPBs. Based on the
			engaging	Arunachal Pradesh and	brought to the	Consultancy	recommendations emanating from
			consultants to	Uttarakhand were	national PSC for	Group for	the report, the State Medicinal
			assess their	trained at FRLHT on	further approvals.	developing a	Plants Boards of all three project
			exisitng capacity.	MAP conservation,	Some of these gaps	capacity	States are engaging technical staff.
			Both states have	inventorisation,	are being	development	Capacities of the technical staff in
			prepared their	herbarium preparation,	addressed by	framework for the	all project SMPBs are being
			action plans for	documentation of local	offering trainings in	NMPB and the	developed through participation in
			the respective	health traditions and	different areas of	three project	various state, national, and
			capacity	sustainable harvest. 2.	work such as	States SMPBs. An	international meetings and
			assessment.	Project staff and	preparation of	interim report has	workshops. Additionally, a number
			Chhatisgarh has	officials of all three	Community	been received	of exposure visits across the
			identified certain	States attended the	Knowledge	highlighting the	country have facilitated capacity
			areas in which	Technical Workshop on	Registers,	gaps and needs	development for the SMPB staff
			capacity needs	MAPs at FRLHT in		for strengthening	from all the Project states
			assessment is to	October 2009. 3.	develop sustainable	of the SMPBs of	
			be conducted.	Exposure visits of	-	Chhattisgarh and	
			This exercise will	project staff organized		Uttarakhand. The	
			be completed by		-	report has been	
				' 		•	

		end 2009-	enterprises and MPCAs	officials of	sent for review to	
			in South India. 4.	Uttarakhand SMPB		
					experts. iDCG has	
			-		also submitted a	
					template for	
			March, 2010. 5.		recording the in-	
			Uttarakhand staff		kind contributions	
			attended the Exit		of the government	
					to the project. This	
					has been	
					circulated to the	
			March 2010. 6. Project		three project	
					states and MoEF.	
			level exit strategy	(Tamil Nadu).		
			workshop on CCF II			
			Medicinal plants project			
			at Bhopal, Madhya			
			Pradesh. 7. In			
			Uttarakhand, Project			
			staff were trained on			
			GIS, GPS and Remote			
			Sensing for preparing			
			digital map and			
			demarcation of MPCAs			
			at Uttarakhand Space			
			Application Centre			
			(USAC), Dehradun			
			during April, 2010.			
			8. A meeting of folk			
			healers and community			
			members were			
			organized in Khalla			
			during May, 2010. 9.			
			Uttarakhand Project			
			staff were trained at			
			Central Post Harvesting			
			Engineering and			
			Technology Institute,			
			Ludhiana on post			
			harvest practices,			

				storage and value addition of MAPs and agriculture/horticulture produce during June, 2010.			
	Minimal. No dedicated		In early	The Project Appraisal		1) State specific	1) The draft strategies to address
	policy for MAPs	intersectoral &	September, a	meeting held with	Uttarakhand, some		the inter-sectoral linkages,
	although growing		four member	Additional Chief		developed under	conservation, sustainable use
conservation of MAPs	interest, eg	committees		Secretary and		Output 2.1 to	issues, traditional knowledge, IPR
	Chhattisgarh &	established.	from	Commissioners of Rural		address the	has been prepared and submitted
	Uttaranchal declared	Individual state		Development in	U U	intersectoral	to the review committee for 2
		strategies for the	visited FRLHT for	Uttarakhand during	District	linkages,	states, Uttarakhand and Arunachal
	,	Sustainable Use &	training on	U	Development	conservation,	Pradesh. 2) To facilitate state-level
	2/Q2 to include: a)	Conservation of MAPs	MPCAs and	the need for having	Cooperative	sustainable use	inter-sectoral and technical
	-	signed off by at least 2	sustainable use	more intersectoral		issues, traditional	coordination, partnerships with the
		government	-	coordination on the		knowledge, IPR	State Biodiversity Board, State
	conflict and	departments in each	MAPs. Similar	conservation and use of		etc.,	Forest Departments, Horticulture
	•	state by Yr 6		,		2) A preliminary	etc. were established. BMC
	requirements for			the Project States, a		discussion has	establishment is complete or
	effective consultation			formal mechanism	•	been initiated to	underway to coordinate diverse
	and intersectoral		teams from	needs to be	Institute under the	provide linkage of	stakeholders in local-level MP
	action; and b) A		Arunachal	institutionalized in this	State Medicinal	interministerial	management. In Arunachal, BMCs
	detailed review of		Pradesh and	connection. Efforts to	Plant Board and the	and inter-sectoral	are functional for 2 MPCA sites. In
	state-level policies and		Chhattisgarh.	be made in this	Uttarakhand Forest	for effective	Uttarakhand, all 7 MPCA sites are
	key sectors to be			direction in the coming	Development	translation of	fortified with BMCs. 3) In
	undertaken to identify			years.	Corperation have	policy	Uttarakhand, SMPB made linkages
	key areas for policy				agreed jointly to	interventions and	with Centre for Aromatic Plants
	harmonization				promote and	replication of	(CAP) to train farmers on cultivation
					expand the	lessons learnt	and primary processing techniques
					cultivation of MAPs	from the project.	for medicinal and aromatic plants.
					in the state.		
					Emphasis will also		
					be placed on		
					exploring markets		
					for MAPs within		
					and outside		
					Uttarakhand. Initial		
					discussions have		
					been held with the		

						state owned drugs manufacturing unit in Mohan in District Nainital for purchase of cultivated and sustainably harvested MAPs from forests under Van Panchayats and FGBs.		
sustainable use of for	forest actively managed	0 ha. Criteria for \"active management\" to	At least 4 MPCAs/FGBs (established in each project state by Yr 4 (3	-	15 MPCAs/ FGB (five in each state) covering around 15000 ha	Policy Study is underway in Arunachal Pradesh	the total area	A total of 5,666.09 hectares are under protected through MPCA sites and surrounding MPDAs.
	MAPs and maintenance	-	in state forest & 1 in	have been	identified in three		·	Additionally, 5 Forest Division
		and maintenance of		identified, there	project states.	existing framework	-	Working Plans are being revised in
community forest	,	MAP diversity and	in total covering 18,000		project states.	-		the three project States so as to
management norms		suitable ecological	ha) & 7 in total per	request for				include Medicinal Plants
and practices at		indicators to be	project state by Yr 6 (5			on conservation		conservation and management. In
demonstration sites in		determined in Yr 1.		the three states,		and sustainable use		the three project states, a total area
three project states.			community forest – 21			of MAPs. On		of approximately 10156 ha is under
				meeting on		identification of	Arunachal	cultivation for various medicinal
			Mid-way through the	August 10, 2009.		gaps in government		plants including GSMPs.
				The proposal for		policies and	Uttarakhand the	
			of the project,	change has come		community-level	area under MPCA	
			respectively, an	in the light of the		, norms,	is approx. 1400 ha	
			additional 2,000,000 ha	-		recommendation	surrounded by	
			and 6,000,000 ha of	being formulated		will be made to	9100 ha FGB.	
			forest will be under	about 7 years		mainstream these		
			active management for	ago. Additionally,		matters in relevant		
			sustainable use and	the sites have to		policies. Study in		
			maintenance of MAP	fit the criteria of		Uttarakhand is in		
			diversity.	MPCAs with		the process of		
				significant		being		
				presence of		commissioned.		
				Globally		Agencies have been		
				Significant		identified to review		
				Medicinal Plants		the JFM policy and		
				and		the legal		

						-		
				comparatively		framework for		
				undisturbed. In		protection of MAPs		
				the case of		and the Traditional		
				Chhattisgarh,		Knowledge around		
				some of the		these. In order to		
				proposed sites		mainstream these		
				fall within the		principles of		
				naxal dominated		conservation and		
				areas which is		sustainable use of		
				difficult for the		MAPs in practice,		
				government		capacity building		
				officials to		measures such as		
				penetrate. There		exposure visits		
				is a request for		trainings and village		
				sites in a nearby		botanist course s		
				accessible		are being		
				locality.		consducted.18		
				Provisional		MPCAs /FGB (six in		
				identification of		each state) each		
				sites has taken		covering around		
				place:		200 ha identified		
				Chhattisgarh has		and demarcated in		
				reviewed the new		the three project		
				proposed sites;		states by the State		
				Uttarakhand too		Forest Department.		
				has requested for		B) 3 MPCAs/FGBs		
				change in sites,		are being managed		
				whereas		by community.		
				Arunachal				
				Pradesh is yet to				
				take a final				
				decision on this.				
	Ha of community	Minimal, Indicators to	Capacity gaps of	0	Six MPCAs/ FGB sites	a) 6 sustainable	a) 13 species high	In Arunanchal Pradesh 1143 ha and
	forests actively	be established in Yr 1	communities, such as		have been idetified in	collection sites	traded and GSMP	in Uttarakhand 250 ha are being
	managed for	along with criteria for	those for management		the three project states	have been	have been	actively managed for sustainable
	sustainable use of	what constitutes	and monitoring to be		(two in each state) in	identified and	identified for	use of MAPs and maintenance of
	MAPs and maintenance	'active management to	established by end of		community owned/	demarcated for	sustainable	MAP diversity. Capacity building of
	of MAP diversity.	favor sustainable use &	Yr 1 Subsequently		managed lands. The	management and	collection in three	communities with regard for
		maintenance of MAP	developing monitoring		exact area under such	sustainable	states. B) Base line	management, monitoring, and
<u>i</u>	1			l	I	1	1	1

	diversity including suitable ecological indicators Minimal	protocols and management practices.		covered under sustainable harvesting is 1500 ha together in the 3 states b) The gaps have been	data related to 5 sites have been documented. C) Base line data & traditional knowledge with respect to 13 species have been documented.	general awareness has been carried out in all 3 states.
Extent of documentation of traditional knoledge on MAPs	Documentation is minimal	10 registers should be produced every year in the villages near FGBs (1 per village)	village level, which is a pre-requisite for the preparation of Community Registers. FRLHT Bangalore is taking a key role in this aspect and the actual preparation of Registers is expected to begin in the coming year.	Knowledge Registers have been prepared (30 in Uttarakhand and 10 in Chhattisgarh). The project in each of the 3 states has identified villages in the fringe of each MPCA where registers will be developed. Knowledge - holders in	Peoples Biodiversity Register on 22 -23 December 2011 in	In Uttarakhand and Chhattisgarh, four and seven draft PBRs, respectively, were jointly prepared with relevant communities. Training conducted on preparation of Peoples Biodiversity Registers (PBR) for SMPB staff, community representatives (Biodiversity Management Committees) & Forest Department staff in all states.

·						hard and a d		
						healers adn women		
						birth-attendants	MPCAs to be	
						have been	declared as	
						identified. Key	heritage sites and	
						documenters have	converting LMGs	
							as BMCs as per	
						-	the BD act 2002.	
						amongst the Local		
						Management		
						Group and Forest		
						Department. These		
						people have been		
						trained in		
						documentation and		
						formats have been		
						developed for this		
						purpose. A field		
						exposure for this		
						team members has		
						been conducted		
						outside the states.		
	Improved knowledge	Documentaiton	Target values for mid	0	1. Project staff from	A one year Village	1) Village	The legal rights and obligations of
	among MAP collectors	minimal	and end of project to		Uttarakhand were	Botanist course has	Botanists 3rd level	the communities related to MAPs
	and community forest		be determined during		trained at FRLHT on	been initiated for	out of a 4 level	are enshrined in Bio-Cultural
	users/managers about		Year 1		Development of	the youths, LMG	Course: One field	Community Protocols (BCPs). One
	MAPs generally and				Biocultural Community	members and	visit per state was	BCP per each project state was
	about their legal rights,				Protocols during June,	forest dept. staff		prepared by the communities and
	obligations and the				2010 and for	living near	3 project states. A	facilitated by civil society
	requirements for				documentation of	MPCAs/FGBs to	total of 20	organisations. These were released
	maintaining MAP				Traditional Knowledge	enrich their	participants from	at the second meeting of the Inter
	diversity and				and herbarium	knowledge on	Uttarakhand, 19	Governmental Committee on
	abundance				preparation during	botanical	males and 1	Nagoya Protocol and showcased at
					June, 2010. 2. Exposure		female; 22 from	the eleventh Conference of Parties
							Chhattisgarh, 17	to the Convention on Biological
					local MAP cultivator sof		males and 5	Diversity. At present Uttarakhand is
					Chhattisgarh to	vegetation		in the process of preparing six
					manufacturing units of	monitoring,	male participants	additional BCPs.
					medicinal plants	systematic	from Arunachal	
					products at Patanjali	documentation of	Pradesh attended	
					products at Palalijall			

Yogapeeth, Hardwar local knowledge the course. A total
during August, 2009. 3. and basic principles of 30 participants
Capacity development of the Biodiversity from the 3 states,
workshop conducted act which includes of which 5 females
for 85 identified sensitisation of dropped out from
traditional healers in their legal rights . the course. A
Chattisgarh and formal 90 village youths, strategy is being
network of traditional LMG members and chalked out to
healers are being forest dept. staff minimise the drop
established. 4. Capacity from 3 states have out in the next
development and been identified and course.
training programme enrolled in the 2) Capacities of 40
conducted for the LMGs village botany Forest department
of Arunachal Pradesh course in a one staff (2 females)
on documenting year and 178
traditional knowledge correspondence community people
and preparing CKRs. program. B) The (50 females) from
The actual process of participants have 3 project states
writng Community completed their were built on
Knowledge Registers first and second conservation and
will be starting once level course of this sustainable use of
capacity development program. The MAPs through 4
programmes are over. programme expects training
to have have at programmes and 4
least 50 Village exposure visits.
Botanists ready for 3) Around 60
engagement with community people
the forest (25 females) and
department for 15 forest
various department staff
assignments by the were trained on
end of the Course documentation of
which will have at traditional
least 10% women knowledge
members. through 3
exposure visits,
one per state.
4) State specific
training manuals
on Village
on vinage

					Botanists course in local language has been distributed to all the VBs of the 3 states. 5) One English training manual on sustainable harvesting was prepared and reviewed by experts. This manual is being considered for translation in Hindi.	
Materials and methods developed for replicating the successful models of conservation and sustainable use of medicinal plants across other sites in the three states, and more broadly.	 Knowledge products developed under the project shared with various stakeholders. Regional and national level workshops organized on medicinal plants conservation and sustainable use in order to exchange ideas, best practices and sharing lessons across the country including South-South countries. Proposals developed for five States to replicate best practices and sharing lessons from the project 	This will be taken up after the Mid Term Review.		meeting is being organised on 1 october 2011 under the Chairpersonship of the Secretary, Ministry of Forest Department, Govt of India, where Forest Secretaries/ Principal Chief Conservator of Forest of the project states will share their experiences with the 5 PCCFs of the replication states. A Strategy for replicating the good practices	specialise in Communications have been hired for each of the three states. The agencies hired for Arunachal Pradesh and Chhattisgarh have developed state specific communication strategy and are now in the process of developing the	The three communication agencies engaged under the project have developed a state specific communication strategy and tools for replication of successful models of conservation and sustainable use within the states. The project shared the recommendations emanating from the various studies and knowledge products at national and international platforms such as Indian Biodiversity Congress, International Herbal Fair, second meeting of the Inter-Governmental Committee on Nagoya Protocol and Eleventh Conference of Parties to the Convention on Biological Diversity. An e-network of experts and practitioners has been established to facilitate sharing of good practices, knowledge, and successful models of Conservation and Sustainable Use of Medicinal

		states and for 5	been organised to	Plants.
		additional states is		
		being developed. A		
			inclusion of	
		the Chief	conservation and	
			sustainable use of	
			MAPs in the	
			National Forest	
			Working Plan	
			Codes. This	
		replication states to	platform gave a	
		all capacity	chance to sensitise	
		development and	the other states	
		experience sharing	about issues	
		programmes being	relating to MAP	
		organised in their	Conservation and	
		states. People from	Sustainable use.	
		J& K are already	A workshop	
		being invited to the	had been	
		capacity building	organised on	
		programmes in	Traditional	
		Uttarakhand.	Knowledge,	
			documenting the	
			TK and IPR from	
			19 to 21 June in	
			Pune, India. The	
			workshop was	
			attended by 15	
			participants from	
			three states of	
			India. The main	
			focus of the	
			workshop was the	
			documentation of	
			TK and creating	
			Home Herbal	
			Gardens through	
			experience and	
			knowledge	

Page 28 of 55

		sharing.	
		0	

RATINGS OF PROGRESS TOWARD MEETING DEVELOPMENT OBJECTIVES

DO Rating: Please review the Development Objective Progress page of this APR/PIR and then answer the questions below. A DO rating will be generated based on your answers.

1 Please rate the cumulative progress being made toward achieving the end-of-project targets as reported in the project results framework in the DO page of this APR/PIR

2 Please rate the likelihood that the project will deliver environmental and social benefits for an extended period after project completion?

Please rate the likelihood that social or political risks may threaten the sustainability of project outcomes

Project Manager/Coordinator: Is the person managing the day to day operations of the project.

MANDATORY RATING MUST BE PROVIDED for projects under implementation in one country or regional projects where appropriate.

Please justify your rating and address the following points in your comments. Please keep word count between 500 words minimum and 1200 words maximum.

1.	Explain why you gave a specific rating.
2.	Note trends, both positive and negative, in achievement of outcomes as per the updated indicators provided in the DO sheet.
3.	Fully explain the critical risks that have affected progress.
4.	Outline action plan to address projects with DO rating of HU, U or MU.
Overall 2009 Rating	Moderately Satisfactory
Overall 2010 Rating	Satisfactory
Overall 2011 Rating	Satisfactory
Overall 2012 Rating	Satisfactory
2013 Rating	Satisfactory
Comments	The various studies under Outcome 1 have progressed very well and most would be completed by December 2013. The draft of the national strategy for conservation, management and sustainable use of medicinal plants has been prepared and circulated among the stakeholders for review and comments. A draft national policy on legal mechanism to protect TK specially relating to sustainable harvest, cultivation and use of medicinal plants within the Biological Diversity act 2002 has been prepared. The course curriculum for officers of the India Forest Service is being suitably revised so as to include Medicinal Plants conservation and sustainable use. The long-term strategy for threat assessment would also be ready by December 2013. Almost all studies and tasks under Outcome 2 are coming to an end and would be accomplished by December 2013. The activities required to establish MPCAs/MPDAs are almost complete and sustainable harvest protocols have been developed for 11 species. BMCs have been created at the local level to strengthen the conservation of biodiversity resources through preparation of PBR. Inclusion of the management of MAPs in the working plan of the selected forest

divisions of the three project states. Inclusion of MAPs in the forestry
curriculum at various levels. Communication strategy and tools have been
developed to disseminate knowledge on MAPs conservation and
augmentation.

UNDP Country Office Programme Officer: Is the UNDP programme officer in the UNDP country office who provides oversight and supervision support to the project.

MANDATORY RATING MUST BE PROVIDED for projects under implementation in one country. Not necessary for regional or global projects.

Please justify your rating and address the following points in your comments. Please keep word count between 500 words minimum and 1200 words maximum.

1.	Explain why you gave a specific rating, for example, if your rating differs from the rating provided by the project manager please explain why.
2.	Note trends, both positive and negative, in achievement of outcomes as per the updated indicators provided in the DO sheet.
3.	Fully explain the critical risks that have affected progress.
4.	Outline action plan to address projects with DO rating of HU, U or MU.
Overall 2009 Rating	(MS) Moderately Satisfactory
Overall 2010 Rating	(S) Satisfactory
Overall 2011 Rating	(S) Satisfactory
Overall 2012 Rating	(S) Satisfactory
2013 Rating	(S) Satisfactory
Comments	7 MPCAs per project State have been established; botanical and ecological surveys have been carried out; areas have been demarcated and conservation and protection activities have been completed. Conservation activities are now being incorporated in the management and Working plans to ensure sustainability of action. Most of the policy and strategy studies commissioned under this project are near completion. Peer reviews and national level final consultations are being scheduled. Sustainable harvest protocols for 10 species have been developed and these are being field tested in 5 sites. Documentation of traditional knowledge in the form of Peoples\' Biodiversity registers and Bio-cultural Community Protocols is completed in the 3 project states. Based on this and discussions with the State Biodiversity Boards, private sector is being invited to partner and create models of Access and Benefit Sharing. In the three project states, a total area of 10,156 ha has been brought under cultivation for various medicinal plants including GSMPs in private, common and marginal or degraded lands owned by various Govt Depts such as Forest and private owners.

Project Implementing Partner: Is the representative of the executing agency (in GEF terminology). This would be Government (for NEX/NIM execution) or NGO (for CSO Execution) or an official from the Executing Agency (for example UNOPS).

RECOMMENDED but NOT MANDATORY for projects under implementation in one country and regional projects.

Please justify your rating and address the following points in your comments. Please keep word count between 200 words minimum and 500 words maximum.

1.	Explain why you gave a specific rating.
2.	Note trends, both positive and negative, in achievement of outcomes as per the updated indicators provided in the DO sheet.
3.	Provide recommendations for next steps.
Project Implementing Partner	
Overall 2009 Rating	
Overall 2010 Rating	(S) Satisfactory
Overall 2011 Rating	
Overall 2012 Rating	(S) Satisfactory
2013 Rating	
Comments	
necessary for regional or global proj	ss the following points in your comments. Please keep word count
2.	Note trends, both positive and negative, in achievement of outcomes as per the updated indicators provided in the DO sheet.
3.	Provide recommendations for next steps.
GEF Operational Focal point	
Overall 2009 Rating	
Overall 2010 Rating	
Overall 2011 Rating	
Overall 2012 Rating	
2013 Rating	(MU) Moderately Unsatisfactory
Comments	The rating is "MU" – i.e. "Marginally Un-satisfactory" because though this GEF project started late (sometime in 2009) however since then it has not been able to develop a cross-

	sectoral coordination mechanism for the conservation and sustainable use of medicinal plants. What is going to change after the implementation of this GEF project in this sector is a question? The sustainability of the work done under GEF- funded project remains as a major concern.	
Other Partners: For jointly implemented projects, a representative of the other Agency working		

Other Partners: For jointly implemented projects, a representative of the other Agency working with UNDP on project implementation (for example UNEP or the World Bank).

RECOMMENDED but NOT MANDATORY for jointly implemented projects.

Please justify your rating and address the following points in your comments. Please keep word count between 200 words minimum and 500 words maximum.

1.	Explain why you gave a specific rating.
2.	Note trends, both positive and negative, in achievement of outcomes as per the updated indicators provided in the DO sheet.
3.	Provide recommendations for next steps.
Other Partners	
Overall 2009 Rating	
Overall 2010 Rating	
Overall 2011 Rating	
Overall 2012 Rating	
2013 Rating	
Comments	
UNDP Technical Adviser: Is the I	JNDP-GEF Technical Adviser.
MANDATORY RATING MUST BE	PROVIDED for all projects.
Please justify your rating and addre between 500 words minimum and 7	ess the following points in your comments. Please keep word count 1200 words maximum.
1.	Explain why you gave a specific rating (do not repeat the project objective).
2.	Note trends, both positive and negative, in achievement of outcomes as per the updated indicators provided in the DO sheet.
3.	Fully explain the critical risks that have affected progress.
4.	Outline action plan to address projects with DO rating of HU, U

	or MU.
UNDP-GEF Technical Advis	<u>er</u>
Overall 2009 Rating	(MS) Moderately Satisfactory
Overall 2010 Rating	(MS) Moderately Satisfactory
Overall 2011 Rating	(MS) Moderately Satisfactory
Overall 2012 Rating	(S) Satisfactory
2013 Rating	(MS) Moderately Satisfactory
Comments	This reporting year is yet another successful year for the project following the highly useful mid-term review. As recommended during the last PIR, the project has prioritized actions that will maximize its chances of meeting its development objectives. A number of strategic interventions have been completed or are on-going. These include for example the drafting of the National Strategy for conservation of medicinal plants, an activity that is expected to render the much required national framework that sets standards and effectively coordinates the currently discrete and divergent efforts undertaken by a multitude of agencies. Based on the encouraging developments during the past two years following the MTR, the project is rated as 'satisfactory' for progress against delivering its development objective. While the National Strategy is yet to be approved, salient features of the Strategy are already being implemented such as integrating medicinal plant conservation concerns into sectoral plans at the local level (e.g. Forest Working Plans), making medicinal plant conservation and utilization an integral part of the teaching curriculum for Forest Officers in collaboration with the responsible institute (IGNFA) – these will ensure that project successes are sustained beyond the project period. The project also took advantage of the UNCBD COP being held in Hyderabad to present the National Strategy and seek feedback from a large number of biodiversity experts gathered there. In addition the project made several notable achievements. It has far exceeded targets set for it several important indicators including the total area under sustainable management of MAPs and sustainable harvesting protocols are of paramount importance given that the major conservation issue related to medicinal plant resources is over-harvesting. The project has also comprehensively identified several MAP species for cultivation, currently implemented in over 4527 ha in the three States. In order that the efforts to conserve and utilize MAP

	several effective linkages with related initiatives in the country – for instance with the National Biodiversity Authority (NBA), and the State Biodiversity Boards (SBBs) – while also building the capacity of the State Medicinal Plants Boards to fulfill their mandates. Finally, the project has successfully set up and secured protection of high value medicinal plant biodiversity areas covering around 10,156 ha as Medicinal Plant Conservation Areas (MPCAs) in the three States. At least 4 People's Biodiversity Registers (PBRs) have also been prepared to document and preserve the profound traditional knowledge related to medicinal plants available in the region. Efforts to document lessons develop outreach and communication materials to promote replication of successful models under the project are also on-going and completed products actively disseminated through various fora. The project team is commended for successfully turning around this project, following an exemplary adaptive management approach to planning and implementation of project activities these last two years. It is now entering into the final year of its (extended) duration. It is recommended that the remaining period be utilized to focus on three sets of prioritized actions: a) consolidate important achievements such as in the finalization of the National Medicinal Plants Board as the appropriate mechanism for guiding, coordinating and overseeing conservation and development of medicinal plants sector in the country; and advancing further the integration of MAPs into the curriculum of IFS and mainstreaming of medicinal plant conservation into local level sectoral plans such as the Forestry Working Plans; b) provide targeted support to the field activities initiated especially at the community level thus far to bring them to successful fruition (and in order not to spread too thin, to consider extending support to new field activities only on an exceptional basis) – of high priority here should be activities focused on securing the MPCAs and final
Highly Satisfactory (HS)	Project is expected to achieve or exceed all its major global environmental objectives, and yield substantial global environmental benefits, without major shortcomings. The project can be presented as 'good practice'.
Satisfactory (S)	Project is expected to achieve most of its major global environmental objectives, and yield satisfactory global

	environmental benefits, with only minor shortcomings.
Moderately Satisfactory (MS)	Project is expected to achieve most of its major relevant objectives but with either significant shortcomings or modest overall relevance. Project is expected not to achieve some of its major global environmental objectives or yield some of the expected global environment benefits.
Moderately Unsatisfactory (MU)	Project is expected to achieve its major global environmental objectives with major shortcomings or is expected to achieve only some of its major global environmental objectives.
Unsatisfactory (U)	Project is expected not to achieve most of its major global environment objectives or to yield any satisfactory global environmental benefits.
Highly Unsatisfactory (HU)	The project has failed to achieve, and is not expected to achieve, any of its major global environment objectives with no worthwhile benefits.
IMPLEMENTATION PROGRESS RATING

IP rating: Please review the Implementation Progress page of this APR/PIR and then answer the questions below. An overall IP rating will be generated based on your answers.

Please rate the progress in delivery of outputs. For example, do the annual outputs represent sufficient progress in order to achieve the project outcomes (see DO page of this APR/PIR)?

2 Please rate the efficiency in delivery of outputs. For example, in this reporting period are budget resources being spent as planned? (i.e. is project delivery on target?)

3 Please rate the quality of risk management. For example, in this reporting period were project risks managed effectively?

Please rate the quality of adaptive management. For example, in this reporting period were actions taken to address implementation issue identified in the APR/PIR last year?

5 Please rate the quality of monitoring and evaluation. For example, in this reporting period were sufficient financial resources allocated to project monitoring and evaluation

Project Manager/Coordinator: Is the person managing the day to day operations of the project.

MANDATORY RATING MUST BE PROVIDED for projects under implementation in one country or regional projects where appropriate.

Please justify your rating and address the following points in your comments. Please keep word count between 500 words minimum and 1200 words maximum.

1.	Explain why you gave a specific rating.	
2.	Summarize annual progress and address timelines of projec	
	output/activity completion in relation to annual workplans.	
3.	Outline the general status of project expenditures in relation to annual budgets, the effectiveness of project menagement up to in guiding	
	budgets, the effectiveness of project management units in guiding	
	project implementation, and the responsiveness of the project board in	
	overseeing project implementation.	
Overall 2009 Rating	(MS) Moderately Satisfactory	
Overall 2010 Rating	(S) Satisfactory	
	(O) Opticfortom	
Overall 2011 Rating	(S) Satisfactory	
Overall 2012 Rating	(HS) Highly Satisfactory	
2013 Rating	(S) Satisfactory	
Comments	As committed in the AWP 2012-13, many of the outputs are completed	
	while the rest are on tract. The activities related to establishment of	
	MPCAs and MPDAs are almost over, Sustainable harvesting protocols	
	have been developed and are now being field tested, resource	
	augmentation and nursery development have been undertaken by	
	States in MPDAs and adjoining areas. PBRs are almost ready in most	
	, , , ,	

MPCA sites, BCPs which were not part of the project were also released. The project took active part and showcased lessons learnt and shared good practices at the eleventh Conference of Parties to the Convention on Biological Diversity. The States have commissioned studies under Outputs 2.1, 2.2, 2.3, 2.4, 2.5, and 2.6. While Studies under Output 2.6 is complete in all states, very good progress has been made on the others. Similarly at the National level studies have been commissioned under Outputs 1.1, 1.2, 1.3, 1.5, 1.6 and 1.7. These are progressing well and are being monitored by MoEF, UNDP, NPSC and review committees very frequently. TSG has been guiding and reviewing the progress of the field level outputs of the project Review/Expert committees have been constituted to guide the implementation of the project outputs SPSC and NPSC meetings were held regularly to review and monitor the project

UNDP Country Office Programme Officer: Is the UNDP programme officer in the UNDP country office who provides oversight and supervision support to the project.

MANDATORY RATING MUST BE PROVIDED for projects under implementation in one country. Not necessary for regional or global projects.

Please justify your rating and address the following points in your comments. The QORs and delivery data in the ERBM portfolio project monitoring report should inform your rating. Please keep word count between 500 words minimum and 1200 words maximum.

1.	Explain why you gave a specific rating. If your rating differs from the rating provided by the project manager please explain why.	
2.	Summarize annual progress and address timeliness of project output/activity completion in relation to annual workplans.	
3.	Outline the general status of project expenditures in relation to annual budgets, the effectiveness of project management units in guiding project implementation, and the responsiveness of the project board in overseeing project implementation.	
Overall 2009 Rating	(MS) Moderately Satisfactory	
Overall 2010 Rating	(S) Satisfactory	
Overall 2011 Rating	(S) Satisfactory	
Overall 2012 Rating	(S) Satisfactory	
2013 Rating	(S) Satisfactory	
Comments	Being the second last year of implementation, the studies commissioned under the project in the earlier years are taking shape. One of the main component of the project is development of a national level inter-sectoral strategy on conservation, sustainable use and cultivation of medicinal plants. All the work being done at the State and national level under other outcomes feeds into this crucial output. A national level consultation was conducted to discuss the draft strategy formulated after several thematic consultations. Another important	

· · · · · · · · · · · · · · · · · · ·		
Project Implementing Partne	component that was completed this year was development of a sui generis mechanism for protection of traditional knowledge associated with medicinal plant. A national level consultation was held this year to finalise the recommendations after due consultations with senior representatives of a range of Ministries such as Environment and Forests, Agriculture, Rural Development, Horticulture, Health, Commerce, and national/ state level institutions such as the National Biodiversity Authority, National medicinal Plants Board, Geographical Indications Registry, State Biodiversity Boards, State Medicinal Plants Board and Senior Attorneys of the Supreme Court dealing with matter of IPR. Partnership with the Indira Gandhi National Forest Academy was established this year to mainstream the subject of medicinal plants conservation and Sustainable use in the curriculum of the officers of the Indian Forest Service. Similar work was also initiated in the State Forest Training Academies of the three project states. Efforts have been made to orient the States on use of the tool of Geographical Indications for protection of endemic medicinal plants and protection of traditional knowledge. Due to efforts made through this project, the State Biodiversity Management Committees and People\'s Biodiversity Registers and Bio-cultural Community Protocols are being done by these BMCs. Sustainable harvest protocols have been developed for 11 GSMP species and these are being field tested now. Efforts are being made to link up with private sector to develop models of ABS in tune with the spirit of the Nagoya Protocol. An innovative initiative in the project this year was to engage agencies to develop communication strategy and tools for the project outreach and knowledge sharing. The project and knowledge products developed under this project were show cased at 2 international events - the second meeting of the Inter-Governmental Committee on the Nagoya Protocol in New Delhi (July 2012) and the Eleventh Conference of Parties of the Convent	
terminology). This would be	Government (for NEX/NIM execution) or NGO (for CSO Execution)	
	ting Agency (for example UNOPS).	
RECOMMENDED but NOT ma	andatory for projects under implementation in one country or	
regional projects.		
Please justify your rating and	address the following points in your comments. Please keep	
word count between 200 words minimum and 500 words maximum.		
1.	Explain why you gave a specific rating.	

1.	Explain why you gave a specific rating.	
2.	Note trends, both positive and negative.	
3.	Provide recommendations for next steps.	

Overall 2009 Rating			
Overall 2010 Rating	(S) Satisfactory		
Overall 2011 Rating			
Overall 2012 Rating	(HS) Highly Satisfactory		
2013 Rating			
Comments			
GEF Operational Focal p	oint: Is the government representative in the country designed as the		
GEF operation focal poin			
Not necessary for region Please justify your rating	UST BE PROVIDED for projects under implementation in one country. al or global projects. and address the following points in your comments. Please keep words minimum and 500 words maximum.		
word count between 200			
1.	Explain why you gave a specific rating.		
2.	Note trends, both positive and negative.		
3.	Provide recommendations for next steps.		
Other Partners: For joint	y implemented projects, a representative of the other Agency working		
	plementation (for example UNEP or the World Bank).		
RECOMMENDED but NO	T mandatory for jointly implemented projects.		
	and address the following points in your comments. Please keep words minimum and 500 words maximum.		

1.	Explain why you gave a specific rating.		
2.	Note trends, both positive and negative.		
3.	Provide recommendations for next steps.		
Overall 2009 Rating			
Overall 2010 Rating			
Overall 2011 Rating			
Overall 2012 Rating			
2013 Rating			
Comments			

UNDP Technical Adviser: Is the UNDP-GEF Technical Adviser.

MANDATORY RATING MUST BE PROVIDED for ALL projects.

UNDP Technical Adviser

Please justify your rating and address the following points in your comments. The QORs and delivery data in the ERBM portfolio project monitoring report should inform your rating. Please keep word count between 500 words minimum and 1200 words maximum.

1.	Explain why you gave a specific rating. If your rating differs from the rating provided by the UNDP Country Office Programme Officer and/or the Project Manager please explain why.
2.	Summarize annual progress and address timelines of project output/activity completion in relation to annual workplans.
3.	Outline the general status of project expenditures in relation to annual budgets, the effectiveness of project management units in guiding project implementation, and the responsiveness of the project board in overseeing project implementation.

	-		
Overall 2009 Rating	(MS) Moderately Satisfactory		
Overall 2010 Rating	(S) Satisfactory		
Overall 2011 Rating	(S) Satisfactory		
Overall 2012 Rating	(S) Satisfactory		
2013 Rating	(S) Satisfactory		
Comments	This is yet another successful year for the project. Following a restructured project management team and improved coordination achieved both at the national and at the State levels, the implementation of project activities during the reporting period has progressed exceedingly well. The RTA rates the implementation progress of the project as S – 'satisfactory'. During the year the project completed a number of important activities leading to achievement of several important outcomes as described under the DO rating comments. These include the drafting of the national strategy for conservation and utilization of medicinal plants – an important national framework that will guide the development of the medicinal plants sector in the country. Activities related to development and mainstreaming of medicinal plants into the curriculum of IFS Forest Officers training are on-going per plan. Another noteworthy set of activities completed during the year was that related to clarifying the legal mechanisms to protect traditional knowledge in medicinal plants while identification of important MAP species for cultivation and promoting these at the community level was continued as per plan. Similarly the project has completed several assessments and surveys (e.g. the seasonal botanical surveys in the different MPCAs), which together with expert knowledge on ecological characteristics of individual species is being used to prepare the sustainable harvest		

compliance with the original/formally revised plan.

PROGRESS IN PROJECT IMPLEMENTATION

Outcome 1- Key Outputs this Reporting Period: An enabling environment at the national level for mainstreaming the conservation and sustainable use of MAPs into forest management policies and practices

Output 1.1 - The draft national strategy for conservation, cultivation and sustainable use of medicinal plants has been prepared and submitted to MoEF. The Strategy will address mainly six issue based thematic areas for which national consultations have been organized for three thematic OUtput 1.2 - There were issues between the agency undertaking a study under this output and MoEF/UNDP. The issues have been areas. sorted and the study would be completed soon. Output 1.3 - The Energy Resources Institute has submitted the final report on legal mechanism to protect TK related to harvest, cultivation and use of MAPs. The institute has also drafted a sui generis regime for TK on Medicinal Plants in India by keeping the draft TK Rules under the Biological Diversity Act as the foundation. Output 1.4 - The National Medicinal Plant Board is considering revising a list of medicinal plant species that may be included under the planting programs. The NMPB is also considering commissioning a study to assess the economic value of medicinal plants in India. Therefore, project funds may not be needed. Output 1.5 – The Insight Development Consultancy Group has submitted its report to the National Medicinal Plants Board for its consideration and necessary action. Output 1.6 – Institute of Ayurveda and Integrative Medicine (FRLHT) is preparing a national strategy for long term threat assessment of Medicinal Plants. Under the study, I-AIM has conducted 3 need assessment workshops in each of the project states. Modules for Training of Trainers has been developed, a manuscript on profile of 47 red listed medicinal plants has been prepared. Output 1.7 – Indira Gandhi National Forest Academy has been engaged to develop a course curriculum on the conservation and sustainable use of medicinal plants for officers of the Indian Forest service. The Academy has constituted a core committee and organized a brainstorming session to identify the gaps and develop the course curriculum.

Outcome 2- Key Outputs this Reporting Period: Forest management policies in the three project states that promote and support the conservation and sustainable use of MAPs

Output 2.1 The task of developing a state specific strategy on conservation and sustainable use of medicinal plants has been commissioned for Arunachal Pradesh and Uttarakhand. The agencies have finished literature review, conducted consultations, and drafted the strategy which needs to be aligned to the national strategy and subsequently reviewed by experts. The project has solicited proposals for Outputs 2.1, 2.2 and 2.3 regarding development of State specific strategy and revision of State Forest Policies for Chhattisgarh. Output 2.2, 2.3 and 2.4 - A draft legal policy identifying gaps in Forest Policies, etc. for mainstreaming conservation and sustainable use of medicinal plants have been prepared for Arunachal Pradesh and Uttarakhand which are under review. Output 2.5 - A report on the need and recommendation for strengthening the capacity of the SMPBs in each of the 3 project states has been prepared and submitted to the states. Accordingly, Terms of Reference (ToRs) for Monitoring, Communication and Livelihood specialists have been drafted. Output 2.6 – The three project states have received state specific reports on species that may be included in afforestation and income generation programs. ToRs have been developed for a study on 'Assessing the Cultivation and Trade of MAPs in Uttarakhand'. Output 2.7 - Consultative meetings conducted for the working plan officers for the 3 states to include MAPs in Divisional Working Plans. Six sites have been identified for revision of Forest Divisions Working Plans in the three project States. Output 2.8 – Proposals have been solicited for conducting Rapid Mapping Exercise and developing a database for resource monitoring in the states of Uttarakhand and Arunachal Pradesh. Database on MAPs of Uttarakhand in the form of CDROM has been prepared. Chhattisgarh had documented the population status of MPs under a NMPB project in 2006. Therefore, the component is not required in Chhattisgarh.

Outcome 3- Key Outputs this Reporting Period: Conservation and sustainable use of MAPs mainstreamed at the local level into government and community forest management norms and practices at demonstration sites in three project states.

Output 3.1 and 3.3 - Seasonal Botanical surveys were conducted and results are under compilation for 7 MPCAs each in Chhattisgarh, Arunachal Pradesh & amp; 2 MPCAs in Uttarakhand. Ecological survey have been conducted for 7,4 & amp; 4 identified MPCAs in Arunachal Pradesh, Uttarakhand and Chhattisgarh respectively. Developed sustainable collection regimes for 11 species for field implementation and sustainable collection. Sustainably collected, value added (Dioscoria hispida) and marketed one species in each state. Augmented the resources (Cinnamomum tamala and Tinospora sinensis) in two sustainable collection sites. Resource augmentation of Medicinal Plants including GSMPs has been done through plantation and cultivation on 4179 ha. Output 3.2 - Identified four State level Forestry Training Institute to introduce MAPs in the curriculum for frontline Forestry staff in the 3 project states. Conducted Village Botanist course in 3 project states and trained 45 para taxonomists. Output 3.4 - Developed capacity of 60 members (local community, forest department staff & amp; SMPB staff) through orientation and exposure visits. Output 3.5 - Formed BMCs in MPCA areas and documented local bio-resources and associated traditional knowledge through 14 draft Peoples' Biodiversity Register across all states and one complete Bio-cultural Community Protocols in each project state.

Outcome 4- Key Outputs this Reporting Period: Materials and methods developed for replicating the successful models of conservation and sustainable use of medicinal plants across other sites in the three states, and more broadly.

The three communication agencies engaged under the project have developed a state specific communication strategy and tools for replication of successful models of conservation and sustainable use within the states. The communication strategy and tools have been field tested at the MPCA sites and are now being replicated for the whole state. The project shared the recommendations emanating from the various studies and knowledge products at national and international platforms such as Indian Biodiversity Congress, International Herbal Fair, second meeting of the Inter-Governmental Committee on Nagoya Protocol and Eleventh Conference of Parties to the Convention on Biological Diversity. An e-network of experts and practitioners has been established to facilitate sharing of good practices, knowledge, and successful models of Conservation and Sustainable Use of Medicinal Plants.

Adjustments

Adjustments to Project Milestones, Project Strategy and Risk Management.

Key Project Milestones

Have significant delays occurred in the project start, inception workshop, Mid-term Review, Terminal Evaluation or project duration?

Yes

If yes, were these changes reported in a previous APR/PIR?

Yes

Key project milestone	Scope of delay (in months)	Briefly describe change or reason for change	Briefly describe the implications or consequences this has had on project implementation
Project Start (i.e. project document signature date)			
Inception Workshop			
Mid-term Review			
Terminal Evaluation			
Project Duration (i.e. project extension)	18	The envisaged project period was from March 2008 to March 2013. However, after the midterm evaluation as per the recommendations of the MTE and National Project Steering Committee an extension of 18 months was proposed.	The implication on project implementation in terms of cost escalation, in particular project management cost will be monitored. The exchange gain from the recent increase in the exchange rate of INR against USD meant that there will be more funds for project implementation.

Adjustments to Project Strategy

Has the project made any changes to its strategy (i.e. logframe/results framework) since the Project Document was signed?

Yes

If yes, were these changes reported in a previous APR/PIR?

Yes

Change Made to	Yes/No	Briefly describe the change and the reason for
	April 3, 2014	Page 46 of 55

	that change
Project Objective	
Project Outcomes	
Project Outputs/Activities	

Risk Management

List number of critical risks as noted in the ATLAS risk log and briefly describe actions undertaken this reporting period to address each critical risk.

# of Critical Risks (type/description)	Risk management measures undertaken this reporting period
Regulatory	Chhattisgarh is a very politically-sensitive region in India. Three of the project's Medicinal Plant Conservation Areas (MPCAs) are situated in the areas where law and order is often an issue. The political sensitivity of the region is a continuing risk to project activities in the area. This past year, an awareness raising puppetry show facilitated by the communication agency was cut short due to threats from extremist groups. In Chhattisgarh, the strong communication work done by the State Medicinal Plant Board and the communication agency have been instrumental in demonstrating to diverse audiences and aimed at benefiting local forest-dwelling tribes and has also demonstrated to diverse audiences including the public and extremists, that the aims of this project are clearly to the benefit of local forest-dwelling tribes.

Adjustments general comments:

RTA Comments: There is only one risk that has been categorized as critical. However there are a number of risks highlighted by the UNDP CO worth noting here. 1) Out of 7 MPCAs in Arunachal Pradesh, 5 lie in the community owned forest. Out of this 2 MPCAs are in proximity of a new hydroelectric project that is in the process of being approved. Although the MPCA sites will not be physically affected by the hydroelectric project but since the community is being highly compensated by the government for the deviation of the land, the community similarly expects compensation for use of their forest lands for the two MPCAs. The project team has been educating the community about the conservation benefits of the MPCAs and thus trying to convince both the political class and the community not to insist on compensation. In one MPCA the community has agreed not to

demand compensation. The project is strengthening its communication work in the area, and aims specifically to use community-to-community dialogue to help deliver the message that MP conservation and sustainable use is in the best interest of tribal groups. Furthermore, to offer realistic alternatives, the project is exploring eco-tourism opportunities in the Medicinal Plant Development Areas that can help generate revenue and employment opportunities for local communities. 2) Within the current co-finance mechanism, some partners have inadequately documented funding figures and channels. This has led to under-reporting physical and financial progress. The Ministry is requesting the project States to report the co-finance. Additionally, it has been decided to engage an agency to build the capacity of the project partners to document cofinance and also undertake documenting the co-finance to the project from 2008. 3) There have been delays in receiving the utilization certificate (UC) from the implementing officers (DFO/Deputy Conservator of Forests). In consultation with the Ministry of Environment and Forests, the UNDP CO has suspended release of further funds till UCs for 100% advances are received. 4) Natural calamities in Uttarakhand that occurred in June 2013, namely cloud bursts resulted in overwhelming amounts of rainfall and consequential natural disasters (flooding, landslides, etc), making some of the Medicinal Plant Conservation Areas now inaccessible. Implementation of project activities in these areas may be delayed. The need for specific corrective action will have to be assessed as soon as the areas become accessible. 5) Frequent transfer of Nodal Officers (CEO-SMPB) in Uttarakhand is affecting timely implementation of activities. As a result progress in the State has been slow. The Ministry of Environment and Forest and UNDP have asked FRLHT to visit the field more frequently to orient the new officers.

Finance: cumulative from project start to June 30 2013

DISBURSEMENT OF GEF GRANT FUNDS

How much of the total GEF grant as noted in Project Document plus any project preparation grant has been spent so far? (e.g. PPG + MSP or FSP amount. Do not break down by PPG or project budget.)

Estimated cumulative total disbursement as of 30 June 2013. (i.e.CDR information up to 20 June 2013)	3471404.00
Add any comments on GEF Grant Funds	FSP expenditure = 3,126,405 + PPG expenditure = 345,000

DISBURSEMENT OF CO-FINANCING

How much of the total Co-financing as noted in Project Document has been spent so far? Cofinancing is the amount committed in the project document for which co-financing letters are available

Estimated cumulative total co-financing disbursed as of 30 June this year. Please breakdown by donor.	0.00
types and amounts of additional co-financing such as in-kind, private sector, grants, credits and	No transparent means of tracking co-financing has been carried out. Both the MoEF and the 3 States report spending significant amounts budgeted to improve medicinal plants conservation and

loans.	management related activities as co-finance to
	the project. Implementation of a system of tracking
	co-finance should be followed on a priority basis in
	the next reporting period.

ADDITIONAL LEVERAGED RESOURCES

These additional resources can be from the same donors or new donors.

Estimated cumulative leveraged resources as of 30 June 2013	
Add any comments on Leveraged Resources.	

Other Financial Instruments

Does the project provide funds to other Financial Instruments?	Ν
If yes, please discuss developments that occurred this reporting period only.	

Communications and KM

Tell the Story of Your Project and What has been Achieved this Reporting Period

1) Who benefits from this project? There is a diverse range of stakeholders who are benefiting from this project, including medicinal plant collectors who are primarily women, forest-dwelling communities including Scheduled Tribes and Scheduled Caste, traditional healers, government officials at all levels, BMC members, etc. Furthermore the biodiversity impacts in terms of contribution to regional ecosystem services should be noted. This project helps protect 5,666 hectares under Medicinal Plant Conservation Areas (MPCA) and the surrounding Medicinal Plant Development Areas and has also set up water and soil conservation activities through the installation of check dams in 3 MPCA sites in Chhattisgarh and the construction of gully plugs in 4 MPCA sites in Uttarakhand. 2) How does the project improve stakeholder\'s lives and advance development? The project is improving the forest-dwelling medicinal plant collector\'s life by providing opportunities that merge economic and environmental development goals. In the Bodmalla van Panchayat of Uttarakhand, the project facilitated the State Medicinal Plants Board (SMPB) to engage the community in the rearing of 4,000 saplings of Cinnamomum tamala to supplement the vulnerable tree population in the surrounding area. This activity helped utilize 20 hectares of barren land while poor medicinal plant collectors involved in re-afforestation work collectively earned Rs. 30,000. Furthermore, the project enhanced a medicinal plant nursery in which 1,000 saplings were given for plantation on medicinal plant collectors////// land so that they may earn extra income. Traditional healers and ancient medicinal practices are dependent on the continued supply of medicinal plants. While the project is making contributions to the survival of traditional practices, and has even helped support traditional healers through co-provision of infrastructure for clinics. Furthermore, traditional healers from the Project gained much exposure at the 11th Conference of Parties of the Convention on Biological Diversity, where they held workshops for an international audience. 3) What was the most notable achievement in this reporting period? Within the national forest policy, there are no

specific guidelines that focus on medicinal plants or address sustainable use and conservation of these species. The project is making important headway to mainstream protection of medicinal plants and associated traditional knowledge in national-level policy. As the policy framework of India is extremely centralized, developments at the policy level are essential for state and local level improvements of the protection of MPs and associated traditional knowledge. This year, a draft of the national strategy for the conservation and sustainable use of medicinal plants was submitted. Additionally, traditional knowledge needs special protection in India. With project support, a report on a legal mechanism to protect traditional knowledge related to the harvest, cultivation, and sustainable use of medicinal plants has been submitted to the Ministry. The institute has also drafted a suis generis regime for traditional knowledge on medicinal plants in India and keeps the draft Traditional Knowledge Rules under the Biological Diversity Act as the foundation. One Bio-cultural Community Protocol (BCP) was published for each Project state. BCPs enshrine the legal rights and obligations of communities involved with MPs and are a step towards operationalising the Access and Benefit Sharing mechanism of the Nagoya Protocol. 4) What has this project changed and how did this change happen? This project has fundamentally increased communication between different government institutions and facilitated cross-sectoral convergence on issues related to medicinal plants. These changes have occurred through a series of inter-sectoral meetings and high-level dialogue, highlighting both the necessity and opportunity in convergence.

Adaptive Management this Reporting Period

Documentation of traditional knowledge is extremely minimal in India. Within the context of international legal battles over bio-resources and associated medical and dietary applications, the documentation of traditional knowledge is extremely important to secure indigenous communities' rights over their bio-wealth and ancient practices. The project originally set out to document traditional knowledge on medicinal plants via Community Knowledge Registers (CKR) that would provide a log of local biodiversity and its application in food, medicine, and culture. However, CKRs lacked the legal recognition needed to offer the community substantial protection. The Project investigated other forms of documentation and is now in the process of transforming the 40 CKRs that were made last year, into People's Biodiversity Registers (PBRs). PBRs are comprehensive databases that record people's traditional knowledge and biological resources while also providing an insight of the status, uses, history, and impacts of this ecological wealth. PBR documentation also helps to align the project with the Government of India's wider biodiversity goals and helps Project states satisfy their mandates under the Biodiversity Act of 2002. Additionally, while the PBRs offer a medium for conservation, protection of IPR, and traditional knowledge, the Project further extended its remit to push for the publication of Bio-cultural Community Protocols (BCPs) that help to operationalize the ABS mechanism of the Nagoya Protocol by asserting community rights over local bio-resources and knowledge. This year 7 drafts have been prepared, and 1 BCP for each project state has been published and was released in a side event to the 11th Conference of the Parties for the Convention on Biological Diversity.

Lessons Learned

Technical The National Medicinal Plants Board and the State Medicinal Plant Boards (SMPB) of Arunachal Pradesh, Chhattisgarh, and Uttarakhand are the nodal agencies for the medicinal plants sector. However, the NMPB and SMPBs have had limited to non-existent capacity to deliver their mandates at the on-set of the project. A study has been commissioned to assess gaps and address strengthening of the NMPB and SMPBs. To provide technical inputs FRLHT has been engaged and the capacity of the staff is being increased through exposure visits, trainings, meetings etc. Social The project focus is mainly on policy issues at the national and state levels. There are limited resources for entry level activities and engagement of local communities, traditional and folk healers, BMCs etc. Political The medicinal plants sector though huge in terms of providing health security and livelihood security to the local communities, does not translate into significant economic terms for both the government and private sector. This has a bearing on the uptake of project activities and achievements by the government and private sector.

PARTNERSHIPS

Civil Society Organisations/NGOs

Partnerships with strong local NGOs across the three Project states were made to engage hard-toreach stakeholders. In the project state of Uttarakhand, Lok Chetna Manch has helped establish two medicinal plant cultivation groups. One of these is called Yuvak Mangal Dal and comprises of 21 young men who have organized to build their livelihoods around cultivation of high-value medicinal plants. The young men in Yuvak Mangal Dal had previously only had employment for four months out of the year in tourism. After exposure to the project and the medicinal plant market, they are now taking steps to develop cultivation areas that can provide them with employment during the 8 months of tourism\'s off-season. The project-supported NGO has connected the young men of Yuvak Mangal Dal with the Horticulture Department to procure cultivation materials. While also in its infancy, a similar initiative has been started by a group of 26 women in Uttarakhand who plan to set up cultivation sites on their families' private land to generate income.

Indigenous Peoples

The project is working with forest-dwelling indigenous groups to develop linkages with the nationally and globally expanding medicinal plant (MP) sector, while also working with them to develop sustainable medicinal plant collection methods to secure livelihoods. In Arunachal Pradesh, a scheduled tribe living around the project established Jorum Medicinal Plant Conservation Area had been collecting and selling the MP Rubia cordifolia. The market was highly disorganized, and the tribal people did not have the bargaining power to negotiate fairer returns with traders. Under the project, a Task Team of diverse stakeholders was established to monitor and manage local biodiversity wealth and traditional knowledge. The Task Team institutionalizes gender equality in bioresource decision-making by mandating at least 30% female representation. The Jorum Task Team exceeds this, and 5 out of its 11 members, including the Chairman, are women.

Private Sector

The project aims to create market linkages between collectors at the grassroots and major medicinal plant sector companies to facilitate fair and regular earnings for collectors. In Arunachal Pradesh, the project connected a Scheduled Tribe community to Agrivista Ltd. By cutting out middlemen and working directly with industry, the community saw an increase in their returns for Rubia cordifolia by 172%, from 22 Rs/kg to 60 Rs/kg. Furthermore, Rubia cordifolia gathering was carried out with project-developed sustainable collection protocols and partially executed in a sustainable collection area for monitoring. As Scheduled Tribes are some of the most impoverished in India, advancements in their economic well-being are vital for sustainable development.

Similarly, in Uttarakhand, the Project helped connect remote villagers with pharmaceutical and dietary companies to try and enhance their socio-economic well-being. In Jhuni village, medicinal plant collectors were connected directly to the Indian Pharmaceutical Corporation Ltd. The community now recieves fixed rates for two high-value medicinal plants, Picrorhiza Kurroa Benth and Sussurea Lappa. Before market intervention, villagers received between 50 and 80 Rs/kg for Picrorhiza kurroa, and now they are earning 125 Rs/kg. For Sussurea Lappa the villagers are receiving a 175% increase in their returns, from 200 Rs/kg to 550 Rs/kg.

The project provided a platform at to the medicinal and aromatic plants industry to voice their opinion on the legal and policy framework for medicinal plants at a National Consultation on the subject.

GEF Small Grants Programme

NA

Other Partners

Partnerships have been made with the State Medicinal Plant Boards (SMPB) of Arunachal Pradesh (AP), Chhattisgarh (CG), and Uttarakhand (UK). The uptake of the project\\\'s communication activities in CG is a good demonstration of the way SMPBs are taking medicinal plant (MP) conservation and sustainable use more seriously.

The CG SMPB has crafted a unique mobile MP exhibition van known as a 'chalit pradershani', in order to raise village-level awareness around MP use, sustainable collection, and protection of traditional knowledge. The CG SMPB also made a series of short videos on sustainable collection, using local collectors as the actors. They have showed these films to orient MP gathers in appropriate sustainable collection methodology, and have noted the community\'s receptiveness upon seeing their fellow collectors in videos. Furthermore, the CG SMPB disseminated information on MPs through conventional methods such as posters, brochures, and booklets.

The CG SMPB engaged with an NGO called Dustyfoot Productions to develop a long-term communication strategy for the state. Despite facing issues with extremist groups, the team developed long-lasting tools and influential activities to raise support from at the local level. A medicinal plant mascot was created and is now recognized across the state. It is still being used by the mobile MP exhibition van of the CG SMPB. Additionally, various theatre performances, wall paintings, and other workshops helped engage MP collectors, locals, and field-level forest division staff with the need for MP conservation. An outstanding show-case of these performances was held in front of an international audience at the eleventh meeting of the Conference of the Parties, as well as other state and national events.

PROGRESS IN ADDRESSING GENDER EQUALITY

Has a gender or social needs assessment been carried out?

No

If a gender or social assessment has been carried out what where the findings?

NA

Does this project specifically target women or girls as direct beneficiaries? No

Have there been any changes in specifically targeting women or girls as direct beneficiaries this reporting period?

Yes

If yes, please explain:

The participation of women in the Village Botanist Course has been low due to issues related to having to attend classes away from home. Efforts are being made to ensure women participation in the Village Botanist Course by enrolling women from the front line forest staff of the project states. Women are also being trained in sustainable harvest and primary processing of Medicinal Plants. Further, women are being involved in activities around MPCAs such as nurseries, resource augmentation, home herbal gardens etc.

Please discuss any of the points above further or provide any other information on the project's work on gender equality undertaken this reporting period

Some points to consider: impact of project on daily workload of women, # of jobs created for women, impact of project on time spent by women in household activities, impact of project on primary school enrolment for girls/boys, increase in women's income etc. Be as specific as possible and provide real numbers (e.g. 100 women farmers participating in sustainable livelihoods programme).

While the project design did not specifically target women at the onset, it does focus centrally on medicinal plant collectors of which the vast majority are women. The project has developed a number of activities that strengthen the awareness, skills, decision-making power, and economic opportunities of women involved with the collection or use of medicinal plants across the three Project states of Arunachal Pradesh (AP), Chhattisgarh (CG), and Uttarakhand (UK).

Importantly, the project has strengthened the role of women as bio-resource decision makers by mandating a minimum of 30% female representation in recently established Sustainable Harvest Task Teams. In all project states, the teams are exceeding this by 50% female representation, and in AP the chairman of one task team is a woman.

With regards to MP awareness raising, the Project state of Uttarakhand has successfully reached out to at least 1,154 women, and 516 children (294 boys and 222 girls). Women have also been instrumental in MP awareness raising campaigns. In AP, the Project has facilitated leadership development for 25 women, by providing opportunities to participate in delivering MP awareness raising programmes. In CG, nine villages in three MPCA areas were covered in MP awareness raising

campaigns which reached out to 2050 women (205 girls). Three out of 12 films shot on different subjects were focused on stories of women vaidyas.

Women\\\'s skills in MP identification and taxonomy, traditional knowledge and bio-wealth documentation, MP cultivation and income generation activities, and sustainable collection were developed through a number of orientation, training, and exposure activities. A Village Botanist Course aimed at nurturing a more scientific understanding of MPs, was carried out in each project state.

Importantly, the four female VBC participants of CG have been given practical opportunities to apply their skills within the State Forest Department (SFD). Women trained under the VBC are helping the SFD in identification and documentation of MPs in the Project\\\'s Medicinal Plant Conservation Areas. Recently the women have collected seed, seeding materials, and saplings of a few MP species from MPCA sites and have facilitated the CG State Medicinal Plant Board (that comes under the SFD) to raise MP saplings in a demonstration garden established on the CG SMPB campus.

Over the last year, training on traditional knowledge and biodiversity documentation facilitated women to be instrumental in the creation of People\'s Biodiversity Registers (PBRs) and Biocultural Community Protocols (BCPs). In Arunachal Pradesh, 14 women were highly active in PBR and BCP documentation; in CG one woman leader was particularly active, and in UK 30 women were participants in PBR and BCP documentation. These activities not only harnessed women\'s unique knowledge about their ancestral practices and local bio-resources, but also helped them understand why the conservation and documentation of these practices and resources are important in a larger picture. Through the documentation of PBRs and BCPs women for the first time gained an understanding of their rights over local bio-resources.

As women are the primary collectors of MPs. Sustainable harvesting orientation programmes were developed with women in mind. Furthermore, to connect sustainable harvesting with income generating activities, a number of in and out of state exposure visits were held for medicinal plant collectors to see different enterprises related to MPs. Last year, from Arunachal Pradesh, 9 key women participated in orientation and exposure visits, as did 21 women from CG and 14 women from UK.

In Uttarakhand, medicinal plant nursery development has generated job opportunities for over 100 women in remote areas,

ENVIRONMENTAL OR SOCIAL GRIEVANCE

What environmental or social issue was the grievance related to?

Social equity and inclusiveness

What is the current status of the grievance?

On-going

How would you rate the significance of the grievance?

Minor

Please describe the on-going or resolved grievance noting who was involved, what action was taken to resolve the grievance, how much time it took, and what you learned from managing the grievance process (maximum 500 words). If more than one grievance was addressed this reporting period, please explain the other grievance (s) here:

The Local Communities had certain reservations regarding the future of the MPCAs. They were concerned that the MPCA would encroach on their rights to collect NTFPs especially MAPs from the area.

The project is trying to create market linkages for some more sustainably collected medicinal plants.from MPCA areas in an attempt to demonstrate that there are far more benefits for them (including financial) by being part of an MPCA than being alone. For instance increased incomes were earned as follows: in Uttarakhand: 30 quintals (dry wt.) of Cinnamomum tamala leaves were collected sustainably and linked to the mandi (herbal market), established by government of Uttarakhand. An income of approximately Rs. 65000/- was generated for 76 families from this collection. Further, a MoU has been signed between the Bodmalla Van Panchayat, SMPB and Forest Department in October 2012 to facilitate the collection process. Resource augmentation of Cinnamomum tamala was undertaken in degraded forests and private lands (approx 45 ha.) of Bodmalla village. In which, 4000 seedlings have been raised by the local farmers and planted in the vicinity areas.

In addition local communities are reassured that setting up MPCA does not take away the resource from them. The project has been explaining that the MPCAs will be managed by the local communities based on a management plan prepared through the participation of all participating households in the community.