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Our reference ISL/SPOML-037/12

SBOS-EKN

Date September 11, 2012

Approved Second Monitoring Mission Report of Baluchistan Partnership for

Sustainable Development (16484)

Dear Mr. Hamid,

Re

Please find attached a copy of the approved second monitoring mission report of the Baluchistan Partnership for Sustainable Development by this Embassy.

The approved report is for your record and for perusal. It contains a number of important findings, as well as valuable recommendations which are for your consideration to be implemented in the best interest of the programme.

Yours sincerely,

Yasmin Jawed

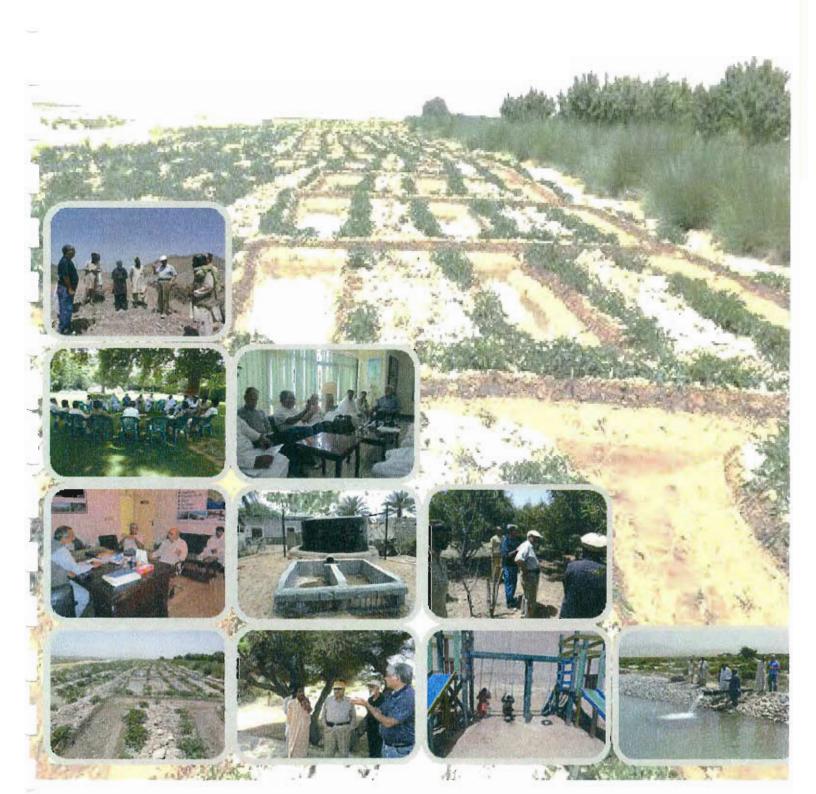
Senior Programme Officer (Environment/Water)

Towed.

# **Monitoring Mission**

# **Baluchistan Partnerships for Sustainable Development (BPSD)**

Second Monitoring Mission Report 12 June - 5 July, 2012 Pervaiz Amir and Sardar Muhmammed Tariq



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# **Acknowledgements**

The mission wishes to acknowledge the continued support of Mr. Jan Willem Cools (First Secretary Development and Cooperation) and Mrs. Yasmin Jawed (Senior Program Officer) from the Embassy Kingdom of Netherlands for their continuous support and understanding in implementing the MM2 due to several bouts of rescheduling. We also acknowledge the inputs made at the de-briefing held in Islamabad.

The support provided by Mr. Zabardast Khan Bangash and his staff and the enthusiasm with which they showed us all the field interventions, shared documentation and freely discussed the project is appreciated. Likewise Mr. Hamid Sarfraz from IUCN Islamabad has been of much help in ensuring the project inputs and outputs are updated on regular basis to enable mission to draw meaningful conclusions.

We also wish to express our appreciations to the stakeholders, line agencies, government senior officials for interacting with us and explaining existing performance and expectations for the future.

## Introduction

The Second EKN mission was fielded in June 2012. Minor delays in scheduling the mission were experienced due to the unfortunate death of one mission member's brother and health reasons of BPSD senior staff member's wife. Over-riding objective of the second external monitoring mission was to ascertain the progress from the post MM1 of EKN fielded in 2011 and to determine how progress was being achieved as per work plan, whether mission findings as agreed upon between mission, EKN and IUCN were incorporated and implemented. The mission undertook an intensive field visit to verify field inputs, pay special attention to monitoring of newly launched interventions in line with mission recommendations and meet stakeholders and partners to ascertain how the project was progressing to achieve its stipulated goals and objectives. EKN was kept apprised about mission schedules through a series of electronic exchanges, scheduling problems and frequent changes in proposed mission dates did not allow briefing session prior to departure with Embassy staff. The TOR's in line with MM1 and as per contractual requirements focused on:

- Review planned outputs as per approved work-plan, institutional framework and its accomplishments, budgets and management
- b. Quality and quantity of activities undertaken and outputs produced by objective since MM1
- c. Organization and management structures and their effectiveness in achieving project objectives
- d. Project Implementation, adjustments, substitutions, upscaling and impact monitoring
- e. The external linkages/networks with other projects and any new bi-lateral opportunities generated by the project
- f. Project strategies for exit in June, 2013 and post project plans
- g. Advise the Embassy

A review of progress from March 26th2011 onwards both through the extensive documentation produced by the project post MM1 and appreciation of field situation that included intensive discussions with relevant stakeholders allows the monitoring team to provide a quantitative assessment of the progress to date for 4 individual components that is based on achieved or likely to be achieved outcomes based on performance since last mission. The M&E team quantitative score are:

ENVIRONMENTAL GOVERNANCE= 4.0
IWRM-PRACTICE AND POLICY= 4.25
COASTAL ECOSYSTEM MANAGEMENT= 4.10
INSTITUTIONAL CAPACITY ENHANCEMENT=4.35

- 1 -Unlikely to be achieved
- 2- Unlikely to realize some important aspects
- 3. Unlikely to be partially achieved
- 4. Likely to achieve some important aspects
- 5. Likely to be fully achieved

# 1. Structure of Report

The report is based on the field work, review of extensive documentation, meeting with stakeholders and intensive in-house discussions on post MM1 progress of the project. It is organized into separate sections that cover Assessment to date, mission findings, finance and management and a final section on mission recommendations

# 2. Monitoring Assessment post MM1

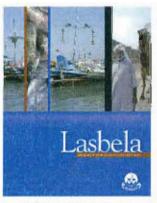
## Monitoring Assessment to Date

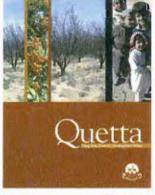
Based on the extensive documentation made available to the mission post MM1 in form of progress reports, work plans, case studies, filled in information at request of mission, updated financial tables prepared till 30 July, 2012 discussions with staff members including presentation by Project Manager and other staff, discussion with Country Representative, stakeholder meetings with all relevant line agencies and partners and an intensive schedule of field visits to areas where possible within deteriorating security situation the mission assessment of the core program areas is:

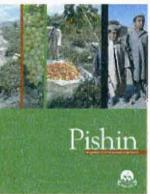
#### A. Environmental Governance:

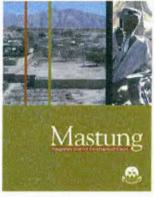
IUCN has completed all the IDDVs produced that were required under its commitment within project resources. The mission was pleased to review the IDDV's for Quetta, Qila Saifullah, Mastung, and Lasbela. Ziarat and Pishin. Preliminary drafts shared earlier with

mission last year have now been published and provide the basis for Integrated Resource Management planning through long visioning. Utility of these documents was confirmed through discussions with relevant stakeholders in the field. Three separate meetings were held for this purpose. In Gwadar the utility and fate of the IDDV was discussed with Gwadar Development Authority, Gwadar Coastal Development Authority, Gwadar Port Authority and other agencies. It was found that this was the first introductory document used by the administration and planners reviewing future potential of Gwadar sustainable development. Likewise the Ex DCO Gwadar was consulted in detail about the utility of IDDV's who confirmed that these are









valuable documents. As he is presently DC Quetta, the mission was informed that the Quetta vision document is proving useful in designing interventions for future vital investments in Quetta. Similarly, our stakeholder meeting in Pishin confirmed the value of the stakeholder endorsed IDV. However, there was much desire expressed that these documents should be translated into Urdu (at least summary versions) for them to have widespread utility amongst the literate (Urdu reading) population. Stakeholders from Mastung were invited to IUCN office for a thorough briefing to the mission. The meeting

was attended by the relevant line departments while due to a last minute meetings called in by DC Mastung some stakeholders could not attend. Stakeholders described in detail problems of Mastung and the security situation which in their opinion was no different than in other districts in the province. Stakeholders pointed out to the need for BPSD to implement the proposal prepared for Karez rehabilitation. They were willing to work in a tripartite mode with BPSD, civil society and line departments to implement activities. There was also a desire to engage in entrepreneurial skill building and micro finance especially amongst cottage industry based women groups. The mission was unable to meet stakeholders from Qila Saifullah or visit the field to further receive input on the value and benefits being obtained from the IDV as IUCN have abandoned work in Qila Saifullah due to heightened security concerns, including the kidnapping for Ransom of BRSP staff of whom two have been brutally murdered. The mission queried BPSD management as to why progress has not been made on the mini- visions that were recommended by MM-I. The mission was informed that UNDP has shown keen interest in partly supporting development of such documents and the project is exploring potential financial resources. The mission observed that by going through a sub-contracting mode all districts in Baluchistan could have their own IDDV's that would reduce any disparity or lopsidedness in documenting essential data and futuristic development vision of each district. Recent documents that identify the MDG gaps highlight the need to produce IDV documentation without which other districts are at a comparative disadvantage.

The mission is pleased to note that training in IDDV preparation has been undertaken and special attention was given to make use of the IDDV's by preparing several PC-1's that now serve as prototypes and few have been submitted and endorsed by the P&D for onward transmission to the Planning Commission of Pakistan. Workshops were heldduring the months of May and October, 2011 for this purpose.

World Environment Day function was organized in June, 2011 and 2012 that highlighted the issues facing Forests-"nature at your service" as the major theme. A district level event was also organized in Lasbela on this occasion. This was well attended and provided the mission firsthand experience on how the project is engaging to create awareness on key environmental issues in the society.

#### B. IWRM Policy and Practice

The mission has given special attention to verification of MM1 recommendations and to see how the upgraded and upscaled approach has been put into practice. Visits to Gwadar area IWRM at Panwan village helped gain appreciation of on-going works. The mission was most pleased to see water, tree, fodder, and bee keeping and fruit production all coming together to enhance livelihoods and income. Water pumping was noted to bring multiple enterprises into the web of development. The recently established nursery while still small and being gradually expanded was reviewed. The mission strongly endorsed the need to add new species like Seabuckthorn, Jojoba and Selecornia which are highly appropriate species to be inducted into prevalent arid and coastal environment.

Mission visited Qila Iskan Khan perhaps the best visible model for IWRM. The MM1 mission had made several recommendations to upgrade this model. The mission confirms that the Karez based intervention consisting of PVC pipe installation has increased flows by almost 5 times. The village now has quadrupled its income that nears Rs. 20 million per annum with expanded interventions on fish pond construction, Playground installation that children are utilizing and appreciating, large nursery that contains many fruit and tree species that are being widely planted in the village and the outside villagers making forward contracts to purchase stock, rapid rehabilitation of over 400 HA area whereby all families that left during drought period have returned and are engaged in productive

pursuits. The village women washing pad facilities have been upgraded. The mission has also widely consulted with local stakeholders and outside agencies including forestry, irrigation, environment and stakeholders met at the Pishin guest house, reviewed post MM1 field reports and are pleased to report that this model is a success and its basic ingredients can be upgraded on large scale and can bring revolutionary changes in a sustainable manner, reduce poverty and help distribute economic benefits to larger segment of society. A unique feature of the Qila Iskan Khan model is the rain harvesting physical works such as eyebrows and bunds that can dramatically improve recharge of the rangelands provided large scale tree plantations are carried out on both sides of the gravitational flow topography. Another lesson that comes out is obvious-upland water shed development should also be a standardized practice as becomes obvious from discussions with stakeholders and field observations. The storage tank at Sar Karzai is silted up and requires urgent attention from the community and IUCN monitoring.

Due to extreme security and abandonment of Qila Saifullah sites and reduced supervision of activities undertaken in this district field visit to these interventions could not be arranged and thus no field comments made. The mission also feels that some of the Physical works particularly large water schemes best be left to departments that are concerned with such works or are built around a political exchange process. Since, water infrastructure investments require large outlays, the approval for simpler interventions that generate large scale distributable benefits to stakeholders from all walks of life would feature high in any realignment or De-obligation of funds.

### C. Coastal Ecosystem Management:

MM2 mission undertook field visits to confirm mangrove plantation in Shabi, Jiwani and Hingol estuary. The plantations are now healthy and vigorous and many have turned into highly visible trees. IUCN has gradually started transferring nurseries to communities. In some cases minor support is being provided by supporting salary of the chowkidar as a gesture and to maintain some linkages with the project site. The mission noted with concern that some of the sites are being extensively polluted due to widespread import of smuggled diesel that could potentially harm the fish population. It is heartening to note that the mangrove plantations are now self-sufficient in seed and have produced several hundred kilograms of seed that now is being used to establish and upgrade nurseries in other areas. The mission has received positive feedback on the significant increase in fish catch on all sites that are a testimony to the projects successful intervention. A noteworthy example that one night catch of a fisherman in the estuary fetched him Rs. 30 million as rare species are also migrating to the rehabilitated mangroves.

Discussions with line agencies and government stakeholders have confirmed the success of mangrove plantation on coasts. The handing over of Gwadar nursery to GDA is a step in the right direction and part of a pre-planned exist strategy. GDA is undertaking minimal level of maintenance on these nurseries but the recent fresh water crisis in Gwadar where water is being sold at Rs. 18000/tanker will most likely take a toll on this nursery. The request by GDA for IUCN to help with rehabilitation of sand dunes that are engulfing Gwadar city road networks needs to be re-looked.

### D. Capacity Building:

Capacity building has been an accelerated activity of the project in post MM1 period. The project documentation clearly establishes high achievements in capacity building, increased number of internships, GIS, Natural Resource and sustainability initiatives, PC-1 training, training on ICZM and environmental management, training on water harvesting, nursery management, turtle management, Disaster resilience, inter-district and provincial

level exchange visits, climate change trainings etc. Other activities are on-going and planned as part of the current work plan. IUCN has also enhanced its capacity in documenting its success stories on videos, media workshops, TV and Radio programs and enhanced visibility through supporting published colorful bulletins on birds, insects, fish and related pictorial presentations. The mission is pleased to note that IUCN has realized the importance of extensively documenting its achievements and hopes that it will make further efforts to bring ground level model upscaling to public limelight so other agencies can also benefit from its livelihood transformation models. IUCN is also engaging with department of Education to assist in the design of primary and secondary level curricula development in the area of climate change. Meeting with Additional Secretary (Education) and UNESCO helped ascertain BPSD inputs into school level capacity building.

# 3. Mission Findings

Based on the field visits undertaken and review of documentation mission findings are recorded in sequence of the travel schedule followed and meetings held by the mission.

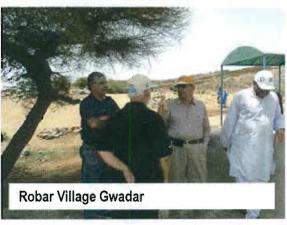
#### A. Coastal Areas

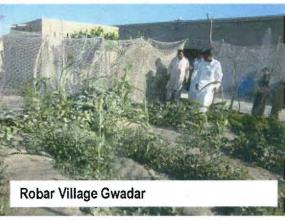
- 1. Mission's visit to Hingol area allowed its members to gain firsthand information on activities undertaken by the project. The IWRM site at Kund Malir included improvements to be made on the check dam structure which to a great extent have been completed. Tree plantation has also been undertaken in the catchment area. The washing platform has been strengthened. Stakeholders from the village reported that they are benefitting from these interventions, but the real test would come during heavy rains as the dam structure has not been rigorously tested yet. The mission also made several suggestions for incorporating livelihood enhancing interventions on spot for consideration of IUCN management.
- 2. The Estuary area adjacent to Kund Malir has been expanded and an 8000 plant nursery established that is being scaled up. During site visit there appeared to be a high demand for the entire area to be covered and local inhabitants were planting mangroves on their own. Fish catch especially of shrimps and crabs had improved dramatically and local fisher folk were of the view that they would undertake self-protection of the mangroves as they could see the direct benefits to their communities. The Kund Malir plantation is still young and no major benefits to livestock are yet apparent but are likely to follow through as the plantation matures.
- 3. IUCN's technical advisor Mr. Tahir Qureshi briefed the mission and also alluded to the preparation of Integrated Coastal Management Plan stating that there are widespread opportunities to expand mangrove production on this site with future benefits occurring to communities who are showing interest in joint ownership with a view to transfer the newly established nurseries once plants reach sufficient height and growth to be transferred to the sea side areas.
- 4. IUCN has prepared new maps for the area that now document to a great extent area covered by IUCN, potentially vacant spots and new reaches amenable to mangroves and other sea side species such as Tamarix. The mission also confirmed from forest department staff how they viewed the work of IUCN and whether they could take up plantation management in line with the practices developed under BPSD. Since, communities are heavily involved forest department was rather non-committal at this stage.
- 5. Due to deteriorating situation on Gwadar coast and parts of Karachi it appeared that technical back stopping had also suffered and much of the supervision was through phone calls and works undertaken by field coordinators.
- 6. The mission was impressed by the solar intervention that had been undertaken at the Forest RestHouse in Hingol. The system was working reasonably efficiently and served as a model and introduction to solar technology for incoming visitors. Going for micro solar interventions on the coast along with wind turbines could provide relief from the excruciating load shedding.

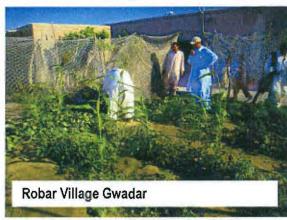
7. The mission also visited the new intervention on Biogas plant at Winder. Since energy and water crisis are emerging rapidly even at the grass roots level this was a welcome sign. Two cooking stoves were attached to the biogas plant and were operating efficiently. However, the cost of unit installed exceeds Rs. 100,000. For the intervention to have wider applicability the cost should be brought to less than Rs. 15,000-20,000. The benefits of clean methane operated stoves is apparent, the economics must come into reach of the common man. The mission advised IUCN to take drastic cost cutting approaches to ensure this intervention becomes widespread. It will help reduce the massive tree cutting which was apparent in the village as several stockpiles of fuel wood could be seen. Likewise, the mission feels that since animals numbers may be limited the use of other biomass e.g. rice straw and leaves should also be mixed with manure to enable even smallholders who only own sheep and goats also to benefit from biogas technology.

















#### Qila Iskan Khan

- 8. Qila Iskan Khan has emerged as a highly successful development model, majority of MM1 recommendations are now in place and the benefits to the community highly visible
- 9. Earthworks undertaken to improve water recharge in the catchment area and the bund structures prepared for rain harvesting are steps in the right direction. The mission wishes to caution IUCN about ensuring long term recharge of the Karezes, as area in QIK is extensively being brought under irrigated agriculture. Ensuring long terms sustainability of the Karez and its output should be a major element of long terms sustainable development.
- 10. Wheat, fodder, grapes, apricots, pomegranates and now even pistachio, almond and other high value crops are rapidly showing comeback and introduction. The village nursery is modular and should be further expanded to cater to the needs of up-scaling within QIK and the surrounding villages. New species noted by the mission will require seed procurement from other areas of Pakistan.
- 11. The 3 village ponds now can store large amounts of water that provides sufficient water security to the village. Since, the village is also allowing other villages downstream to benefit from the increased water flows there is a need to propose an institutional solution whereby cost of maintenance and a social charge is levied for outsider users that can be used to improve delivery services in the communities.
- 12. The playground which has now been fenced provides a harmonious environment for the children of the village who are taking full benefit of these facilities and this helps in creating social harmony.
- 13. The security situation in the area is still manageable as villagers and general inhabitants of Pishin are fighting back terrorism and extremisms. A recent incident in which a Pishin lady and 4 other local inhabitants were kidnapped for Ransom where pursued by village people who joined forces with other locals and encircled the Ransom seekers. Three of the kidnappers were killed and another taken prisoner and handed over to the authorities. Residents of Pishin have vowed they will fight terrorism with all force to make the area peaceful and will show no tolerance or mercy towards those engaged in such heinous crimes.
- 14. Total expenditure on multiple IWRM interventions to date with share of community contribution and benefit accrued on per annum basis are detailed below:
  - (i) IUCN contribution=Rs. 3,003,000
  - (ii) CIDA's contribution= Rs. 8,010,000
  - (iii) Community's own contribution= Rs. 2,300,000

Total Expenses= Rs. 11,313,000.

Against this expenditure, the only last year'spartial cash income forfew keyoutputs from crops, fruits and vegetable alone has been:

- (i) Wheat crop= Rs. 4,110,000.
- (ii) Fodder= Rs. 370,000
- (iii) Grapes= Rs. 850,000
- (iv) Apples= Rs. 750,000
- (v) Vegetables= Rs. 600,000

Total/Annum= Rs. 6,680,000

This is partially estimated income as several other enterprises like sunflower, residues; livestock etc. have not been included. Nor have outputs of other adjoining sis benefiting from shared water included in this calculation.

- The community is still in the process of bringing additional land under cultivation which would further enhance their income. At this rate of return community will have achieved paybackperiod before end of project.
- The Mission also met stakeholders from all walks of life at Pishin guest house. (vi) In particular the mission wanted feedback on activities and partnerships relations fostered through IUCN. Pishin district administration was very pleased with the IDDV and now wanted IUCN to sensitize the political leadership to utilize development funds (often exceeding Rs. 60 crore per MPA and likely to be enhanced to Rs. 1 billion pre-election campaign) to be channeled in the light of IDDV long term proposals. It appeared that majority of the attendees were appreciative of BPSD efforts to enhance environmental sustainability in the district. There was strong support to translate the Pishin vision into Urdu for larger benefit of the literate masses. Several stakeholders wanted IUCN to also address the plight of those farming communities that did not rely on Karez water but had installed tube wells or were dependent upon streams or engaged only in rained agriculture. IUCN promised to ensure that this group of farmers was also brought into the envelope of development but still supported the notion that since Karez model e.g. QIK and Saro Karez is so successful its first priority would be to undertake development taking Karez as the basic unit and engine of growth for Baluchistan's rural transformation.
- 15. Meeting with Secretary Forest was quite productive and many of the new ideas discussed were appreciated. One particular idea that required further endorsements from the government was the initiation of development forums both at Baluchistan level and one specifically for Gwadar. Blue prints of such forums have been prepared by the mission and provided to BPSD for further perusal. There was appreciation on joint holding of World Environment day where IUCN had provided the necessary facilitation and paid costs for this provincial level event.
- 16. The meeting with Secretary Environment was planned for a short span but extended to more than 1.5 hours due to the secretary's desire to engage the Ministry of environment in Post Rio + deliberations and what they meant for Baluchistan. Secretary Environment had attended the Conference in Brazil and was keen to pursue core themes of Green Economy in Baluchistan. The secretary ensured full cooperation of his Ministry to BPSD and informed the mission that his staff frequently relies on IUCN for technical advice. Several of his staff has received training in NRM and GIS and utilities knowledge to upgrade the department. The secretary showed keenness in IUCN working with EPA and building its capacity further in post 18th amendment scenario. The Secretary also asked BPSD to share their post BPSD plans and exit strategy and whether they were chalking out a post BPSD strategy for the province. The mission also briefly met Minister of Environment as a courtesy call.
- 17. Mission met Vice Chancellor Sardar Bahadur University who was appreciative of the inputs (dust bins, nursery plants, curricula inputs, training material on climate change) shared by IUCN. Their main problem seemed to be electricity load shedding and a broken down and outdated system requiring repairs. The University vice chancellor lamented that HEC funds were on the wane and she was looking for support to strengthen her Environment department. While there was adequate building facilities the university required help in staff training, fellowships internships, equipment. The VC was appreciative of the internships extended by BPSD and looked forward to future collaboration where the University could benefit particularly in field research where IUCN sites could serve as labs for student projects.
- 18. Mission visited Saro Karez and surrounding areas of Ziarat to see joint interventions with IUCN's Juniper Project.
- 19. Sara Karez is showing promising results and will take up activities similar to QIK although it is yet to mature in its interventions. Rehabilitation of the Karez has greatly increased water

- availability and high value agriculture is being undertaken. The village has a predominant livestock culture and its productivity's showing improvement from the large amounts of crop residues that now become available to the local residents.
- 20. The village nursery is being developed and is in its early stages of development with all physical works completed and polythene bags filled.
- 21. There is political grouping in the village that could hamper full benefits from the IWRM model. However, those participating seem to be reaping the benefits and are planting high value fruits and vegetables.
- 22. The village seems keen to further exploit the upper catchment water resources but was advised not to do so as this could lead to reduced flows in their rehabilitated Karez.
- 23. Physical Works in Ziarat and its surroundings were also reviewed. The situation with respect to Juniper cutting and lack of alternative livelihoods is deplorable. Improving flows through stream rehabilitation and piping could further bring lands under agriculture and conflict with clearing lands with Juniper plants to bring it under agriculture crops. Care must be exercised for sustainable land use and overall environmental degradation.
- 24. Hanna Lake: Development of Hanna Lake is being undertaken by the Army Cantonment. The mission met with its senior management in office and visited Hanna Lake to see some of the interventions undertaken.
- 25. IUCN has provided majority of the bill boards and posters that have attractive environment related messages. IUCN has also developed a nursery on the site with large capacity to help plant the upper catchment area.
- 26. The Two check dam structures have been completed and mission Water expert made several comments on improving the design and needs of added excavation for expanding the capacity.
- 27. There is tremendous scope to introduce wildlife and fisheries in Hanna lake and IUCN was asked to take up some of these initiative to make Hanna Lake a model Park Recreational facility
- 28. Hanna can serve as good Environmental Park with large number of daily visitors. It can be used to educate visitors on essentials of conservation and environmental protection. There are few other NGO's that are undertaking plantation and benefitting for the advice of IUCN forestry expert.

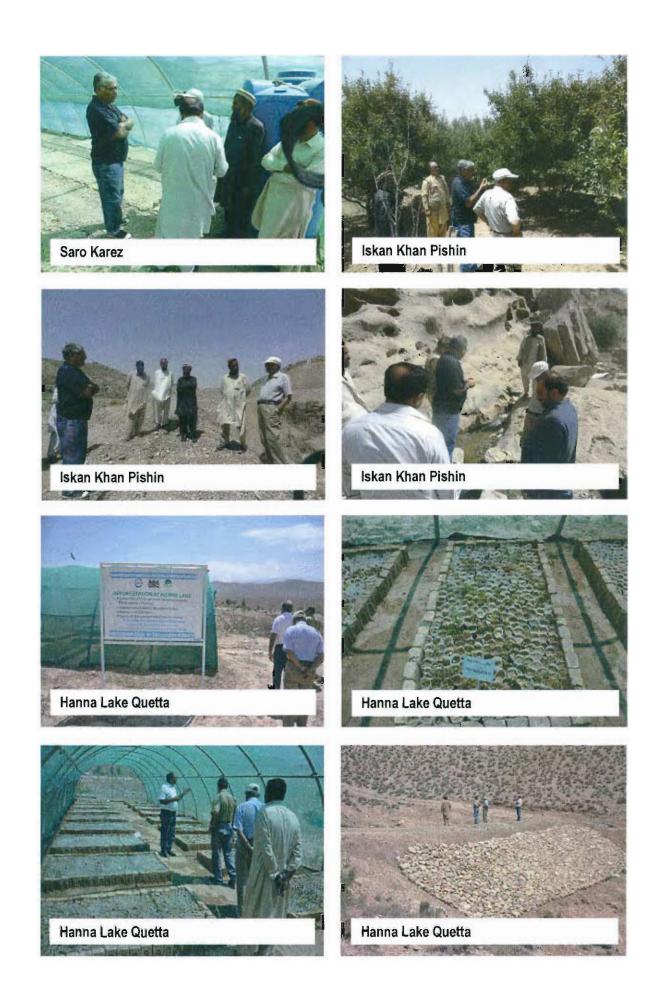
**General:** Events like the World Water Day be encouraged with wider participation-partners and networks are expanded. The project has very good examples of success that are not being highlighted appropriately.

**Work Plan:** The present work plan is still under implementation and the mission was ensured that all activities planned will be completed within stipulated timeframe. There have been some adjustments and substitutions of activities from Pishin and Ziarat to Lasbela in wake of security situation. These activities require carefully consideration to their value and contribution to the project given the rather limited remaining period of less than one year for project completion.

**Strategy Alignment:** Project now needs to start moving into project completion mode and think through an exit strategy along with follow-up projects to sustain the momentum of BPSD through other initiatives. The mission was impressed that IUCN received funding from IDRC in support of some of its work in Qila Iskan Khan. Likewise interest from UNDP to support some mini IDDV's reflecting the value of project outputs that receiving recognition from other donor agencies. The large sums of moneys allocated to the Department of Irrigation by government (Rs. 3.8 billion in 2012 budget) should be partially

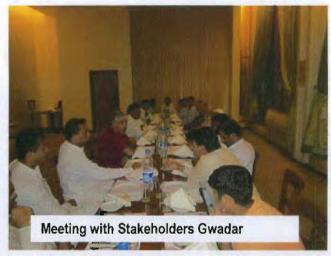
aligned with the Karez development experience and upscaling requirements 
IUCN is promoting in the province.





**Meeting Photos** 

















# Comparison Photos











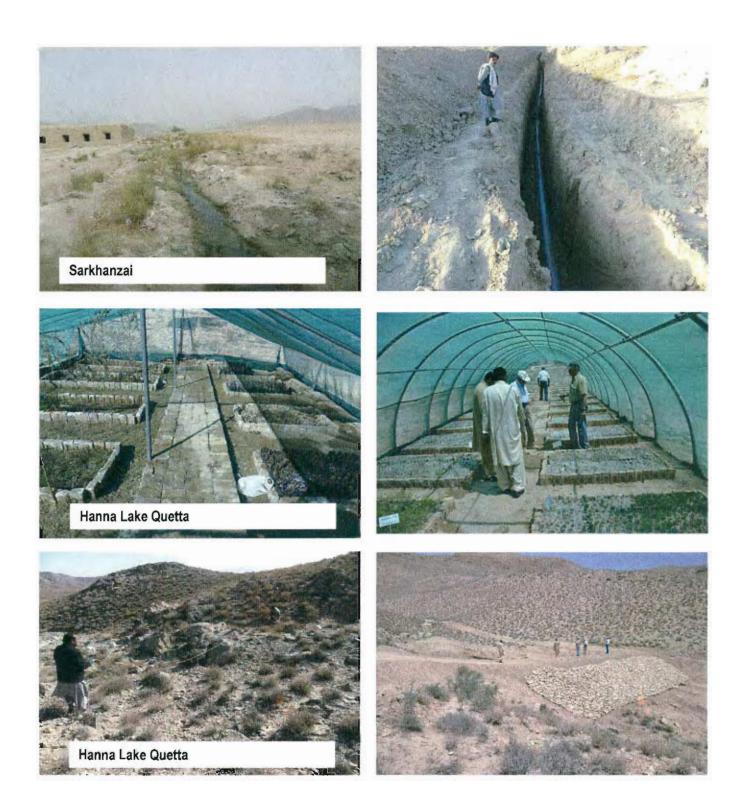












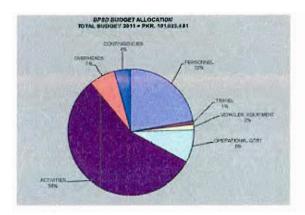
# Plan post MM1 and achievement/deficiencies

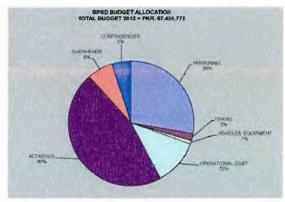
### Management Issues and Strategies

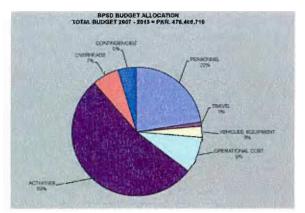
Staffing: There have been some staff changes with staff moving to other jobs. Although IUCN has hired suitable replacements. Likewise some of the senior managers (e.g. Irrigation Engineer) will now be working with changed set of terms and conditions. How this impacts the project remains to be seen. As there is considerable load on home based field coordination officer who has to deal with three different districts some adjustments may be required. Staff morale needs to bemaintained as the project looks beyond BPSD and future IUCN projects and programs. Some job insecurity is inevitable. IUCN should come up with realistic assessment of its post BPSD strategy and ensure staff is kept apprised of any developments.

### 4. Financial Management

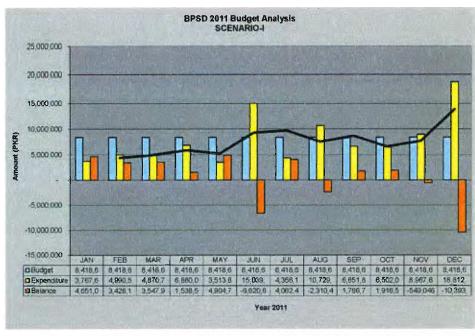
The mission has been provided detailed briefing on project financial situation. To date the project funds utilized since January 2012 are 27% with 6 month remaining for end of financial year. Whereas funds utilized since April 2011 to-date are 46%. This is a concern the mission has raised with management. The response has been that since Annual plans take up initial resources to plan the activity, get things started in field much of the payments are deferred to later dates-thus explaining the low level of expenditures in the first 6 months of the project. We have also been assured that this has been past trend on BPSD and other projects. Normally projects progress goes in line with expenditures. The implications are that many activities will get implemented or paid for in the second half of the financial year or even completed in a rush with obvious quality concerns.

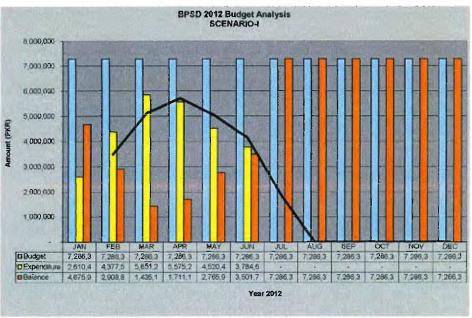






Forecasted expenditures for remainder financial year under current plan being implemented are shown in bar chart below.





An adjustment of roughly 9 million from Pishin and leftover funds from Ziarat are being shifted to Lasbela. This is justifiable shift of resources. However, the mission would like management to be cautious with such expenditures as the appraisal of these activities is rather fast track. In general expenditures on physical works be discouraged and management diverts such resources to IWRM with greater attention to Karez and upscaling. Any resources available would be justifiably spent on sub contracts for remaining district IDDV's.

**Disbursement of EKN Funds:** Till 02 July the project has disbursed a total of Rs. 258,909,489 rupees. Remainder project funds are in the tune of Rs. 219,557,221.

#### RECOMMENDATIONS

Project recommendations are divided into three categories Project, EKN and government and cover the objectives of the project.

#### **RECOMMENDATIONS**

# **Project Management and Partners**

- 1. It is recommended that IUCN take stock of its remaining period of less than 11 months to project completion and consolidate and focus project activities according to agreed upon work plan but with greater focus on upscaling its works in success areas.
- 2. Deobligate funds from further physical works on water supply or check dams. Such resource releases should be diverted to expand livelihood opportunities in success areas or invested into high value outcomes e.g. IDDV's.
- 3. Energy and water nexus should receive greater attention through interventions like solar, bio gas, and clean water. In Gwadar IUCN should play a facilitator's role in addressing the water crisis that is reaching emergency proportions?
- 4. Rapidly expand provision of seeds, nurseries, vegetable production, MPTS, water saving and drinking water technologies to ensure all village inhabitants are beneficiaries.
- 5. IWRM shows the success that can benefit widely by adding in the remainder components of the model e.g. watershed management, fertility improvement, etc. concentrate efforts and resources to open up these models for economic and social evaluation by engaging universities, interns etc..
- 6. Sand dune stabilization requires prioritization of sites that have economic significance. Work more closely with GDA to establish wind breakers and shelter belts in coastline of Gwadar city. IUCN is encouraged to bring international best practices to the attention of GDA through provision of documentation and video materials
- 7. Continue upscaling IWRM activities within all IWRM sites new and old especially consolidating Karez based development works directly impacting livelihoods and poverty alleviation.
- 8. BPSD is advised to undertake proper water management to ensure recharge of mother wells on each and every Karez rehabilitated.
- 9. In case of QIK it is recommended that 8 wells for underground water storage be developed to ensure smooth supply during drought periods. And where drought becomes constraining factor utilize water conservation technologies like drip irrigation to save fruit trees. IUCN must come up with a drought management plan that is sustainable by

- proposing protocols and SOP's relevant under drought adaptation strategy.
- 10. Undertake de-siliting of storage tank at SarKarez whose capacity has been reduced by 75% due to aquatic undergrowth. IUCN to ensure this community based clearing campaign is undertaken on priority basis.
- 11. Raised bed technique being practiced at QIK was universally wide and results in water loses. Such practice consumes 60% more water. Both IUCN and community are advised to reduce the bed width and utilize this area to grow strip vegetable or case crops like maize.
- 12. Fish ponds are ready but no fish have been provided by the forest department as promised. Mission recommends that BPSD procure its own stock and urgently completes this activity. Likewise BPSD provide technical assistance to Hanna lake authorities for creation of a trout/mahsher nursery to support aquaculture in Hanna Lake ASAP.
- 13. Implement Karez model in Mastung based on tripartite arrangement identified by civil society within 2012 work plan as discussed in detail with stakeholders.
- 14. GIS facility- IUCNto help prioritize 7-8 economic zones and IUCN take up 1-2 zones for planning upscaling works post BPSD.
- 15. There are several case studies that emerge from IUCN field work with direct relevance to climate change and disaster management. IUCN's community based adaptation strategies, especially Karez as an adaptation intervention requires immediate documentation. Likewise undertake study on impacts of hailstorm on fruit crops in the Ziarat valley.
- 16. Accelerate capacity building activities with support to irrigation department, EPA, forest and educational institutions.
- 17. Translate all IDDV's in short executive summary format into Urdu for wider circulation within districts, line agencies, and civil society and development agencies.

#### **EKN**

- 18. Encourage debate and action planning to solicit component wise funds for implementing IDDV's. IUCN should highlight the IDDV outputs through debate in development forums at federal and provincial levels and program activities accordingly
- 19. Undertake on priority basis 23 IDDVs in those districts for which IDDV's have not been prepared. EKN advised to initiate urgent action in this regard to complete activity by end of project. While no cost project extension is an option it should be avoided and activity completed through fast track implementation and sub-contracting as discussed by mission. This may require readjustment of resources.

- 20. It is recommended that IUCN encourage its staff to participate and present project outputs at national and international meetings and staff most appropriate and qualified for such representation be selected for such meetings and supported. Where appropriate EKN's advice be sought in this matter.
- 21. Towards end of financial year start implementing project exit strategy, auditing, inventory, outlining project completion reports, demobilization strategy etc. EKN to oversee the activities come to their logical completion as the project winds down.

### Government

22. Initiate discussion on Baluchistan Development Forum and Gwadar Development Forum in line with discussions held with government and other stakeholders s blueprinted by the mission.

Next Mission: Proposed for March, 2013

# Annex A (Schedule of Meetings)

IUCN-Balochistan Partnerships for Sustainable Development Schedule of Meetings with **Dr. Pervaiz Amir** and **Dr. Sadar Muhammad Tariq** 

Department	Date and Time	Remarks/Status
12-06-12		
Maj (Retd) Mohammad Akbar Lashari Director General Baluchistan Coastal Development Authority	14-06- 2012 /10:00am	Done
Mr. Touqeer Assistant Commissioner Gwadar	14-06-2012	Done
Director General Gwadar Development Authority	14-06-2012	Done
Mr. AbdurRazzaqDurrani Deputy Chairman Gwadar Port Authorities	14-06-2012	Done
Meeting with Stakeholder at Gwadar Mr. Adnan Jan Commander Navy	14-06-2012	Done
Mr. Ahmed Nadeem Deputy Director BCDA Mr. Riaz Ahmed BCDA		
Mr. HafeezBaloch Environment officer Environment Department Mr. Abdul Hameed Director Admin		
GDA Mr. Abdul Haleem Director Environment GDA Haji Basth		
Representative Chamber of commerce Mr. ZakirBaloch Deputy Director		
GDA Mr. Durani Deputy Chairman GPA		
Mr. Munir Ahmed Assistant Director		

CDA	I	
GPA Mr. Abdul Raheem		
Site Manager		
PWP		
Mr. Abdul Waheed		
Conservator		
Forest Department		
Mr. Yar Mohammad Dashti		
DFO		
Forest Department Mr. Iqbal Abdullah		
Director		
Fisheries		
	20.00.40	_
Mr. Ali Ahmed Durrani	22-06-12 11:00 am	Done
Secretary Forest Block No 4, 1st floor Room # 1		
Government of Baluchistan		
Civil secretariat		
0300-9388123		
9202275		
Mrs. Sultana Baloch		Done
Vice Chancellor,	25-06-2012—09:00-10:00	
SardarBahadur Khan Women		
University, Brewery Road,		
Quetta,		
Mrs. JamilaQazi		
Registrar Ma. Rehis Zefer		
Ms. RabiaZafar Prof. Environmental Sciences		
9202098		
Mr. Babar RazaKazi	27-06-2012 / 10:00-11:30 am	Done
Director General		
AZRI Quetta		
Quella		
Mr. Abdullah Jan	28-07-2012 / 12:30-02:00pm	Done
Secretary Environment , sports and		
Youth Affairs Government of Baluchistan		
9202421		
Mr. Zahoor Ahmed Bazai	28-07-2012 / 03:00-04:00pm	Done
Director Training University of Baluchistan		
Mr. Shah Mazar		
Special Assistant		
Meeting with Mastung Stakeholders	02-07-2012 / 10:00-02:00	Done
Additional Secretary Education	02-07-2012 / 03:00pm	

# Annex B(IWRM COMPONENTS OF A KAREZ AS A DEVELOPMENT UNIT)

# IWRM COMPONENTS OF A KAREZ AS A DEVELOPMENT UNIT DISTRICT

		District Gwadar	wadar		i i	District Oils Selfulan		2	District Pishin			0.51	District Zierat			District Quetta	District Lasbela	statels
S.No IWRM Component	Gunz Water Supply Scheme		Rahmeter Pend Machi Naleint	Repair of Gunz Water Supply	Penturber Rankebbe Rapat of WPRA Pond Robar Pond Mach Gunz Water Interventions : Village Neient Supply Bagh Viala	Metabilitation of Establishment QLI Protect and Karez Sabakzal Water of Nursery at Develop Sarkha Supply Scheme Dodazai Watershed	Establishmen. QII. Prote of Nursery at Develop DodaZai Watershe	QII. Protect and Develop Watershed	Karez Sarkhanzai I	Karez Qila S Haji Khan R	Karez Karez Qila Saro Karez (Sarkhanzei Haji Khan Rehabilitation R	Childri Karez Rehabilitation Rehabilitation Rainwater Rehabilitation Parisoning Sandeman Band Begh Harvesting Rehabilitation Parisoning Tangi Karez Karez Lake	habilitation S Spring T	angi Karez	Rehab Itation Bano Bagh Yarez	Rainwater Harvesting Hanna Lake	Rehabiltation of weit-Kundmalir	Winder
WaterShed Management																		
2 Motherwell Rehabilitation																		
Main Water Ghannel																		
4 Water Conservation Technologies							5					109-046						
5 Land Preparation																		
6 Livelihood Olversification					1													
7 Rangeland Development																		
Establishment of Nurseries																		
Energy 9 -Blo-Gas Plants Solar Plants														n ===				e fresh
10   Sanitation					G													
11 Social Forestry													-					
12 Drought Management																		

#### 2. IWRM, Coastal and Marine Resource Management

The second M&E Mission has noticed with satisfaction the implementation of see vital interventions suggested during the first evaluation carried out during March-April 2011. The intervention still remain isolated and widespread, some excellent models of IWRM have been established both at the coastal and inland which according to Mission assessment have full potential of up-scaling and horizontal spreading can contain broader principles of IWRM which have been practically operationalized. The models and isolated interventions are discussed in the following paras:

#### 2.1 Karez as a Development Model applying IWRM Principles - Qilalskan Khan Pishin District

This village having cultivable land of 60 acres with apple plantation on 40 acres was almost devastated during the prolonged drought of 1996-2003. The Karez around which the village survived for its economic activities and livelihood. A population comprising 80 houses out-migrated from this village and lived in other villages under absolute poverty having sold out their precious belonging and prime livestock at throw away prices.

Two families which owned maximum land however, stayed back and lived on the money by selling their precious belonging and expensive livestock.

IUCN's intervention under BBPSDprogramme included:

- a) Rehabilitation of choked seepage collection channel with perforated PVC pipe.
- b) Enlargement of village pond.
- c) Rehabilitation of main water distribution channel with 14 inches and 12 inches PVC pressure pipes over a tength of 1,628 meters.
- d) Lining of 2,400 meters length of tertiary water courses.
- e) Construction of 3 Nos. geomembrane lined water storage tanks having total water storage capacity of 3,650 cubic meters.
- f) Establishment of 24,000 plants Nursery.
- g) Construction of 12m x 8m x 1m stock water tank.
- h) Establishment of play area for the children.
- i) Construction of 30 eye brow shaped delay action structures for watershed management.
- j) Construction of 35 check structures for rain water harvesting.
- k) 17 acres land development.
- I) Construction of 30m x 20m x 2m fish pond.
- m) Construction of 2 Nos. washing pads for women.

With above interventions and particularly rehabilitation of Karez, the water flow increased by 5 times, the families who had migrated during drought period started coming back and once again brought the area under cultivation by adopting more scientific practices giving due consideration to water conservation and management, replacing old high delta crops and trees with high value and low delta crops and trees. So far

700 acres agricultural land which was completely abandoned during drought has been brought under cultivation and is being continuously expanded. Karez outflow is now more than what Iskan Khan Village can utilize and the water is being given to other villages as well free of cost. The community of Iskan Khan Village has completely taken over all the infrastructure including nursery and are effectively maintaining the system. Iskan Khan Karez has established a sustainable model having complete ownership of the community with potentials for up-scaling and horizontal spread based on IWRM principles. The Mission therefore strongly recommends to introduce some important missing elements of IWRM such as:

- Drought management and creating a drought resilient community by ensuring water, food and fodder.
- ii) Introducing bio-gas plant.
- iii) Further development of range land with arid variety of seabuck thorn and multi-cut grass.
- iv) Introduction of solar energy and solar heating and cooking facilities.
- v) Community to accept full ownership of the watershed.
- vi) Introduction of proper sanitation facilities.

#### 2.2 Coast Development Interventions applying IWRM Principles

Dir Creek Mangrove Plantation: IUCN's flagship mangrove plantation at Dir Creek is now fully under the control of local community mostly fishermen of the area. The community is fully involved in protecting the plantation and maintaining the nursery. Since IUCN's intervention, the mangrove forest has expanded providing well-protected breading grounds for the fish and shrimps. The coast line plantation is well patrolled by the community from grazing, logging etc. and the whole planted area has been divided into blocks and grazing is only allowed at the far end behind the coast line in order to protect the breeding grounds. With such protection of breeding grounds, the fish and shrimp catch has increased manifolds. New marine species are attracted to the mangrove areas. In addition to the mangrove nurseries handed over by IUCN, the community has also developed their own nurseries as well. The income enhancement thus provided by the new mangrove plantation and their protection has given the community sense of participation and ownership and would definitely lead to wider sustainability and would have great potential for up-scaling and horizontal spread leading to meeting the national protein requirement and earning substantial foreign exchange through proper regulation and control. The Mission feels that where it is a good success model, it still can be expanded to include following additional IWRM components for livelihood diversification, introduction of Modern landing facilities, boat building and repairing facilities particularly focusing on safe rescue of fishermen, boats and their equipment, introduction of livestock and poultry, introduction of salt tolerant varieties of fruit trees and vegetables, providing them safe drinking water by introducing solar desalinization plants, bio-gas plants, solar cookers, better health care and sanitation and education facilities.

#### 2.3 Other Isolated Interventions

In addition to two very successful IWRM interventions as described in para 2.1 and 2.2, IUCN also carried out some isolated interventions in other districts as well on the demand of the local communities during the evaluation period from March 2011 to June 2012. These IWRM interventions are described here under:

### 2.3.1 <u>District QilaSaifullah</u>

- i) Rehabilitation of Sabakzai Water Supply Scheme: This project included laying of 2.0 Km long 2" dia PE pipe, rehabilitation of 5 Nos. storage tanks, construction of infiltration gallery and 5 washing pads. These interventions resulted in the outcome of provision of clean drinking water with obvious impact on health and livelihood.
- ii) Rehabilitation of Water Supply at KilliNargose: The project included construction of 800 meters long 2" dia PE pipe, construction of infiltration gallery, rehabilitation of 2 Nos. storage tanks and construction of 2 Nos. washing pads. These interventions provided much cleaner drinking water to the village community.
- iii) Establishment of Nursery at Dodazai: A nursery consisting of 24,000 forest and fruit plants was established in Dodazai Village to improve watershed area and livelihood of the community.
- iv) BaghViala Karez Rehabilitation: The main works carried in the rehabilitation of Karez, construction of 1,600 ft concrete channel, construction of 34m x 24m storage pond with geo membrane, construction of check dams, construction of rainwater harvesting structure, establishment of 4000 plant nursery, introduction of 4 varieties of California grapes, development of range land over 150 acres. These interventions resulted in increase in community's income by 2 times and cultivated area increased from 4 acres to 14 acres.
- v) Development of Land at SahakzaiKilli: 28 acres of land was leveled for wheat cultivation. IUCN claims that this intervention resulted in providing Rs. 60,000 income per acre to the community. As the area is presently under high security risks, its verification still has to be carried out.
- vi) Development of Land at KilliDodazai: 34 acres of land was developed at Dodazai Village for growing wheat crop resulting in financial return of Rs. 60,000 per acre which would again require verification.

#### 2.3.2 District Gwadar

- i) Rehabilitation of Gunz Water Supply Scheme: The physical works included repair of main water supply tank, laying of 2.4 KM long GI pipe and repair of bio-sand filter bed. These rehabilitation and repair works provided adequate water for the village and got rid of the Tanker Mafia with tremendous relief to the village women who otherwise had to fetch water from far flung areas.
- ii) Rain Water Harvesting at Rohar Village: Rain water pond was construction at village Rohar along with a hand pump to meet dines water need of the village IUCN also distributed seeds to promote kitchen gardening from waste water.
- Rain Water Harvesting at Palado Village: An earthen pond and hand pump have been built for rain water harvesting to meet acute water shortage at village Palado. Once the pond gets filled up, it will provide great relief to the village community specially the women who travel long distances daily to fetch water for their domestic needs.
- iv) Rain Water Harvesting at Machi National Village: As in village Palado, similar interventions have been carried out it village Natiret by constructing an earthen pond and installing hand pump to harvest rain water to much acute water shortage and to provide relief to the women who travel long distances to fetch water for their domestic needs.
- v) Repair of Gunz Village Water Supply Scheme: The water storage pond at Gunz Village was severity damaged during cyclone PHET. This pond was repaired to restore continued water supply to the village.

#### 2.3.3 District Lasbela

- Rehabilitation of Water Structure at KundMalir. Repair of weir, plugging of cavities, construction of overflow spillways and construction of pad around sweat water well have been completed. These works were essentially potential out during the Mission's first visit in March 2011. During current visit, the Mission again advised that promotion of single well would not be adequate to meet water requirement of the community during drought periods and need to construct two or more wells downstream of the weir. These wells can be filled during wet season by diverting spillway water when spillway is in operation. There are existing mango trees d/s of the weir. The number should be increased along with growing vegetables. The catchment of the weir needs to be protected from erosion by proper watershed management.
- ii) Kund Mater Mangrove Plantation on the Right Bank of Hungol River: Securing the benefits of mangrove plantation on the Left Bank community living on the Right Bank also demanded mangrove plantation on the Right Bank. IUCN provided necessary nursery and the community itself planted the mangrove trees. Community is patrolling the area on its own. During the visit the IUCN and the community was advised to:
  - Diversify livelihood and start growing vegetables. Break chimneys could be constructed on the flat area near the coast and use high moisture condensation during right to grow vegetable.
  - Install bio-gas plants and introduce solar cookers.
- iii) Construction of Bio-Gas Plant: IUCN constructed a bio-gas plant in the village \_\_\_\_\_\_. It has been a successful intervention which reduces the use of wood for cooking in addition to producing compost for their orchards and vegetable gardens. The IUCN advised to look into:
  - How best the cost of the bio-gas plant can be further reduced.
  - This intervention should be widely projected and installed in maximum villages with the involvement of the community.

#### 2.3.4 District Ziarat

- i) Rehabilitation of Sano Karez: the works carried during the evaluation period i.e. March 2011 to June 2012, include construction of geo-membrane lined water storage tank, construction of washing areas for women, establishment of 24,000 plants nursery and provision of a playground for the children.
- ii) Rehabilitation of Chutair Karez (Joint Venture with JFP): The main intervention included installation of 12" dia 160 meter long PVC pipe which saved upto 80% of water previously being lost due to high seepage in the main channel.
- iii) Rehabilitation of Piri Spring (Joint Venture with JFP): the works included installation of 12" dia PVC pipe over a length of 100 meters in the main channel resulting in saving 80% of the water previously lost through percolation in the main channel.
- iv) Rehabilitation of SandemanTangi Karez: The works commences and under progress are laying of 12" dia PVC pipe over a length of 72 meters. Once the works are completed community would need to be mobilized to undertake other IWRM interventions to enhance and diversify livelihood by adapting Karez as a unit for economic development.

v) Rehabilitation of BanoBagh Karez: The works undertaken and still under progress are laying of 12" dia PVC pipe in the main channel of the Karez over a length of 102 meters. It is again recommended to use this Karez as a development model and introduce multiple interventions for livelihood diversification with enhanced income and economic benefits to the community with its total involvement.

#### 2.3.5 District Quetta

- Rain Water Harvesting: Two rain water harvesting structures have been constructed at Hanna Lake for supplying water to the plantation. These structures are not fully complete and IUCN were advised on further improvement works on these structures. Since the structures were completed recently, they were still empty because of no rainfall. The storage capacity of these two structures is quite limited and the Mission has its doubts on the overall benefits of these structures in meeting general planting requirement. IUCN was further advised to:
  - Address siltation issues of Hanna Lake and maximum efforts should be undertaken to stabilize
    inflow Nullahs to Hanna Lake by thickly planting shrubs and trees in the Nullah beds to reduce
    scour and influx of sediments to the Hanna Lake.
  - Install rain gauge and evaporation tray at Hanna Lake to monitor precipitation and evaporation in order to assess seepage losses from the lake bed and banks.
  - For providing better green coverage in the surrounding hills of Hanna Lake, more arid varieties
    of trees and shrubs should be introduced.
  - The nursery established at Hanna Lake should include rapid growing varieties of trees.

#### 2.3.6 District Pishin:

- i) Qilalskan Khan Model Village: The IWRM intervention and their outcomes have been discussed under para 2.1(i).
- ii) Rehabilitation of Karez at SarKhanzai: The rehabilitation works included laying of a 12" dia PVC pressure pipe in over a length of 870 meters. These works have been recently completed and resulted in saving around 70% of water which was lost in the main channel.
- iii) IWRM Pilot Scheme at Qila Haji Khan: The interventions were focused in rehabilitation of village Karez and included construction of a water storage tank, rehabilitation of irrigation system by laying 4,000 feet of PVC pipe, improvement of 220 feet length of infiltration gallery using 8" diaperforatedPVC pipe and construction of 8 Nos. check dams of stone masonry for facilitating ground water recharge. These physical works resulted in 20% increase in Karez flow which provided adequate water for households and livestock, saved apple orchard over 12 acres of land, and the community earned Rs. 240,000 from potato cultivation during the very first year after the completion of project.

# Annex C (IWRM Activities)

District	Activity	Name of Scheme	Start Date	Completion Date	Status
	1.3.2	Rehabilitation of Gunz Water Supply Scheme	7 <sup>th</sup> May, 2009	12 <sup>th</sup> June, 2009	Handed over to community
Gwadar	2.1.4	Construction of Rain Water Harvesting Pond Robar Village	2 <sup>nd</sup> October, 2010	28th October, 2010	Handed over to the community
Gwadar	2.1.4	Construction of Rain Water Harvesting Pond Palado Village	15 <sup>th</sup> October, 2010	18th November, 2010	Handed over to the community
	2.1.4	Construction of Rain Water Harvesting Pond MachiNalinet Village	22 <sup>nd</sup> No <b>v</b> ember ,2010	30th December ,2010	Handed over to the community
	1.3.2	Repair of Gunz Water Supply Scheme	4th April , 2011	15 <sup>th</sup> May, 2011	Handed over to the community
	1.3.2	Rehabilitation of Weir Structure at KundMalir	15 <sup>th</sup> August ,2011	22 <sup>nd</sup> February ,2012	Handed over to community
Lasbela	1.3.2	Construction of Bio-Gas Plant	15 <sup>th</sup> December ,2011	2 <sup>nd</sup> June, 2012	Handed over to the community
	2.1.4	IWRM Pilot Scheme at BaghViala	15 <sup>th</sup> November ,2009	22 April , 2010	Handed over to the community
	2.1.4	Rehabilitation of Sabakzai Water Supply Scheme	5 <sup>th</sup> December, 2010	31 <sup>st</sup> January, 2011	Handed over to the community
	2.1.4	Rehabilitation of Water Supply Scheme KilliNargosi	22 <sup>nd</sup> January, 2011	28 <sup>th</sup> February, 2011	Handed over to the community
KillaSaifullah	2.1.4	Land Development at KilliSabakzai	22 <sup>nd</sup> November ,2010	31 <sup>st</sup> December ,2010	Handed over to the community
	2.1.4	Land Development at KilliDodaZai	5 <sup>th</sup> November, 2010	,2010	Handed over to the community
	1.3.2	IWRM Pilot Scheme at Qila Haji Khan	21st May, 2010	31st December, 2010	Handed over to the community
Pishin	1.3.2	IWRM Pilot Project Qilalskan Khan	22 <sup>nd</sup> July ,2010	31st December, 2011 31st December	Handed over to
1 131111	1.3.2	Karez Rehabilitation at SarKhanzai	September,2011 22nd August,	,2011 31st January	Handed over to the community  Handed over to
	2.1.4	Rehabilitation of Saro Karez  Rehabilitation of Chutair Karez (	2011 15 <sup>th</sup> November,	,2012 30th December,	the community  Handed over to
	2.1.4	Joint Intervention with JFP)  Rehabilitation of Piri Spring ( Joint	2011 21st March	2011	the community  Handed over to
Ziarat	2.1.4	Intervention with JFP) Rehabilitation of SendamenTangi	,2012	24 <sup>th</sup> April, 2012	the community  Work in
Ziarat	2.1.4	Karez	30 <sup>th</sup> May, 2012	Under progress Under	progress Work in
Quetta	1.3.2	Rehabilitation of BanoBagh Karez Rainwater Harvesting Structures	10 March, 2012	Progress Under	progress Work in
Quetta	1.0.2	Trailwater Flarvesting Structures	TO March, 2012	Progress	progress

# Annex D (Work Plan 2012)

Balochistan Partnerships for Sustainable Development Activity # ISL-16484 Work Plan 2012

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code	Key Activities	1 600.5	Deliverables/I digets 2012	Means of verification	Jen ree Mer Apr May Jun Jul Aug Sep Cot Nov Dec	IN UNI A	Will Sep	NON LOS		nory Notes
-	To promote sound environ	nmental governance at the	ne district level through vi	To promote sound environmental governance at the district level through visioning, planning and implementation	dementation					
1.1	integration of the district development vision as a planning tool in administrative processes in the districts of Balochistan.	pment vision as a planning tool	in administrative processes in the	he districts of Balochistan.						
TI .	Analyse experiences with the development of IDDVs in Qla Saithilah and Gwedar, standardise the proce sees and linelite the IDDV Handbook.								Already completed.	4
11.2	Disseminate the IDDV Handbook to district governments and partners all over Balchistan. Arrange exercise viets for the								Afready completed	4
CT.										
1131		Exposure visit for Gwadar & Lasbela stakeholder s	About 20 stakeholders vists coastal districts in Sindh About 15 stakeholders vist similar areas in Punjab	Visit reports			•			
1.3.2		Exposure visit for Qila Salfullah, About 50 stakeholders visits Ziarat, Mastung, Quetta & Zhob upland districts stakeholders	About 50 stakeholders visits upland districts	Visit reports		•				
1.1.4	Provide need based technical back stopping to the districts who initiate the IDDV development process.								It would be request based.	st base d.
1.1.4.1	4	Provide orientation to the Interexed district governments and relevant stakeholders to develop EDDVs					***			
1.1.4.2		Assist in developing med based based based								
1.1.4.3		Assist in developing situation analysis								
1.1.4.4		Assist in the consultative process with the stakeholders								
1.2	Integrated District Development Visions (IDDVs) for Lasbela, Pishin, Maxtung	Visions (IDDVs) for Lasbela, Pisi	hin, Mastung and Quetta develo	and Quetta developed and approved.						

dotes	ve been stration ed in all 6												
Explanatory Notes	Since all draft IDDVs have been completed new, demonstration projects would be started in all districts.	Aire ady completed.											
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Means of Verification				1									
Deliverables/Largets 2012					Maintenance of rangeland intervention at Bagh Mala		Completion of inegrated water management scheme at Taak	A A A A A A A A A A A A A A A A A A A	Maintenance of multicut fodder demonstration	1 water pond at Phone	Locater ponds for wildlife m Hingol National Park	Exabit shment of Badini Village in Kund Malir as a model sustainable village	From come mad Management Plan for Winder Industrial
T diskip		Undertake institutional and partner mapping in the province, especially the select districts	Identify, prioritice, develop and finalise the project proposals through consultations with partner organizations and field surveys.	Implement physical field work and interventions as per approved design in Oila Safullah Disnici		Implement physical field work and interventions as per approved de egn in Gwadar District		Implement physical field work and interventions as per approved design in Lasbela IX smict					
Key Activities	Facilitate implementation of ecosystem and livelihood element of the approved IDDVs by the district councils, relevant the departments and chit society organizations.												
Code	132	1321	1327	1323	13231	1324	13241	132.5	13781	132.5.2	13253	13254	13255

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Note management uples to the continue of the c	Code	Van Aminitiae	Take	Dallvershies Corests 2013	Names of Car Stanton	ion	A Ha	An An	Man	col ton	1111	Aire	3	ŧ	Minu	200	Evilenative Listen
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Interpretate proceed design for dear working settlements of sett	13257			Waste management system for				+	-		1	1	1	1	1		
Detroticity of Control of Support Name Support Suppo	1.32.6		impenent physical feld work and interventions as per approved design in Pishin	Sea lown													
Promote improved feeding   Promote improved feeding   Promote improved feeding	13261		23873	Demonstrate crop diversification through improved grape værieties on 2 hs			-				ı	1	Ī	1		1	
Secretary and statement of the stateme	13262			Promote improved fedder varieties on 2 ha		+	-				1	1	1	1	•		
Maintain nursery at Sat   Important privisial felt work   Maintain nursery at Sat   Maintain nursery at Sat   Maintain nursery at Sat   Maintain nursery at Sat   Maintain nursery	1.3.26.3			Develop a fisheries pond			1	1	-		_		-				
and nearworkings as pare approved designin Questian and nearworkings structure as a Harma approved designin Questian approved apport approved apport apport apport approved and proper and prop	1.3.26.4			Maintain nuresery at Sar Khanzai				-		-	1	1	t	1	ı	1	
approved designin Queetra  Organical Anna Anna Anna Anna Anna Anna Anna An	1,32.3		Impement physical field work						-								
The completion of frainwater   Completion of frainwater			and interventions as per approved design in Quetta District				- 10										
Support vulnetability and limited sees small state than the transition of a sees small state to sees small than the transition of a sees small state than the transition of a sees small state than the transition of a sees small state than the transition of a sees state than the transition of the tran	13,2,7,1			Completion of rainwater harvesting structures at Hanna Take													
Support values because   Support values   Stady report   Climate change study and   Climate change study and   Stady report   Sudortisan coast   Climate change   Saloctisan coast   Climate change   Saloctisan coast   Climate change   Support awarene straising, and   preparation of adaptation   Support awarene straising,   Support a	1327.2			Support in plantation and aware ness-rai sing campaigns at Hanna Lake		1	1	1			1		1	1	I	ı	
Develop and implement Assistation to Develop and implement Assistation in Francework for salect districts according a prosecution of Balocaristan francework for salect districts and operationalise (Stabilish and operationalise Committee Committee Develop processls for district proposals for district proposals for district proposals and marrine resource management.	1.3.2.8		Support veherability and impact assessment studies capacity building and awar oness raiding, and preparation of adaptation stratections at ategre sin climate change.	Climate charge stucky on Balochistan coas:	Stud/ report						I	ı	I		I		
Establish and operationalise Regular meetings of QCACC Minutes of the meetings of QCACC Committee Committee Develop processls for district. Approach paper and 5 Jevel large projects proposals proposals proposals.	13.29		Develop and implement Ast Quality Management Framework for salect districts of Balochistan	Support awareness-raising, acvocacy and projectisation in pursuance of Quotta AQM framework			-	-			1	ı	1	1	1	1	
Develop processls for distric: Approach paper and 5  Jevelop processls for distric: Approach paper and 5  To facilitate integrated water, coastal and marine resource management Three fully functional, community managed, medium size projects on IWRM established in the Identified river basins.	1.3.2.10		Exably and operationalise Quetta Clean Air Coordination Committee	Regular meetings of QCACC	Minutes of the rice dings							•		3			
	13.211		Develop proposals for district. level large projects	Approach paper and 5 proposals	The second secon	1						7-		200			
	2 17	To facilitate integrated v	water, coastal and marine of ymanaged, medium stee prof	resource management ects on IWRM established in the	Identified river basins.												- Base School State ( distance)

	44° COLO CO COLO 4-1												
Explanatory Notes	Already completed.			VIII					Need based only	Already completed.			
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Aug													
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ion her Mar Apr May Jun				-			-						
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Means of Verification							ust of selected stes						
Deliver apres, rangers and							At least 3 selected sites					Software addons and updates	
I daks		Collect topographic sheets (1:50000) of velect districts & mark water shed boundaries	hold consultations with relevant partners and conduct economissance surveys to develop list and maps of potential stes (sub-basins)	identify the stakeholders in each sub-basin	Hold series of meetings with the relevant stakeholders at the district and sub-basin level	Hold at least one meeting with stakeholders at the provincial level	Finalise the project ster (sub-		Conduct hydrological and geophysical surveys of selected IWRM sies	Finalise and share survey reports with relevant stakeholders		Precure har dware and software Software addons and updates	Build capacity of project staff and partners in advanced GIS
Key Activities	Held consultations with stakeholders at the provincial and district level to select appropriate locations for the projects.							Conduct hydrological, gealogical and social/economic surveys to gather base line data of the selected sites.	- M 2		Operationalise GS on water and environment.		
Code	777	Alan	2,112	2.1.1.3	2.11.4	2111.5	2,116	21.2	2121	2.1.2.2	213	2131	2132

Code	Key Activities	Tasks	Deliverables/Tergets 2012	Means of Verification	Jan	Feb Mar		Apr May	ay Jun	lul r	Aug	Sep	ö	Oct Nov Dec	Dec	Explanatory Notes
21.3.3		Procure satelite digital data relating to select project areas	Satellite imageries of propect wites		1	1	1			1	1	1	1	1	1	
2.1.3.4		Digitise select district, coastal areas and river basin maps	Digitisation of maps	sdeW	1	ī		,		1	1	1	1	1	1	
21.35		Undertake ground truthing (calibration) of the collected data	Ground truthing visits	Maps	ı	T	1	1	1	1	1	1	1	1	1	
2136		Analyse and process satellite digital data relating to select project areas	Finalised maps	Maps	1	1	i	1	1	1	1	1	1	1	1	
21.37		Collect and feed into GS system relevant data on water, soils, vegetation, livestock, rangelands, dimate, environment and socio-economics			1	1	ī	1	1	1	1	1	1	1	1	
2,1.4	De sign, implement and monitor the projects with a focus on integrated approaches to improve water management	bt.														
21.41		Hold series of meetings with stakeholders to assess their needs in water sector	A number of meetings in the selected areas	Report on meetings	í	1	1	-	1						MARKEN	
21.42		Mobilities communities and rates Community meetings their awareness on WRM	Community meetings	NFRs and thip reports		ı	1	,	1	1					2.2	
21.43		Develop partner ships between the projects, communities, civil society organizations and line departments	Terms of Partner ships agreed for Next River Basin	100%		Tentil		1	1	1						
21.44		Identify and design projects interventions in consultation with communities and other stakeholders	Project interventions designed for Akram Skhobi	De ign doarments			1	•	1							
2145		Operationalise the project interventions						-		-						
21.451	1		Project interventions operationalised in Manzaki Karez	Visi reports			-	1	1	•						
214.52	2		Rehabilitation of Ulas Karez	Vist reports				H	H		1	1	1	1	·	to the second se

Code	Ney Activities	Tatks	Deliverables/Targets 2012	Means of Verification	Jan	feb h	Mar A	Apr M	W. Jun	7	Aug	Sep	-	Oct Nov Dec	Dec	Explanatory Notes
2146		Provide technical backstopping Saro Kare, to installed and operational projects.	Saro Karež	Progress reports	fi	1	1	1	1	1	1	1	1	. 1	1	
23.47		Build the capacity of stakeholder in Propert operation and maintenance through outreach workshops, exposure walts erc.	At keast I naeing and i outreach workshop	Workshop reports							•			•		
21.4.8		Moision Project interventions (field data collection, analysis and maintenance)		Monitoring reports	1	1	1	1	1		1	1	1	1	1	
2.2	Negative implications of unsus	Negative implications of unsustainable water resources management practices, and their effe	nent practices, and their effect	cts on local, provincial, and national economy researched, advocated and fed into policy frameworks.	econo	my res	earche	d, adve	cated	and he	dimo	policy	amen	orks.		
121	newserum and december the															
22.1.1		Arolyse and synthesise data collected from field monitoring		TOTAL STATE OF THE				1	1	İ	1	1	1	1	1	
22.12		Review national and international liter mure and document findings to develop best ju actices in IWRM									1	1	1			
2223		Dissentinate and state findings among easkeholders at local, provincial, national, regional and global levels.											1	t	1	
757	Hold consultations with upper and lower riparian on water needs, appropriate cropping patierns, waste (water) disposa systems, and other relevant issues.															Completed in 2011.
1221		Identify options on resolving issue chetween upper and lower riparian for at loast one river basin	Roper-knoer riparian options	Study report						· · · · · · · · · · · · · · · · · · ·						Completed in 2011.
2222		Develop policy brief on sharing, and allocation of visiter resources in a river basin	Policy In Inf's Geveloped	Policy Sriefs				1		. ,				e111 - 253		Completed in 2011.

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Preventive The decision traders,  across disability and indexes of the control work stops to provide the control work stops to provide the control work stops to control work st	Code	Key Activities	Tacks	Deliverables/Targets 2012	Means of Verification	San Feb	b Mar	Apr	May Ju	Jun Jul	AUE		Sep Oct		Nov Dec	Explanatory Notes	
officials and relevant lead control fiction and relevant lead control fiction are of communities or efficient are of communities probled for the size of the size	2223		160	workshop	2					-						Completed in 2011.	
According and control of these policies and bases.  Communities  Develop and print available builded (disposal builded)  Develop and print ava	22.3	Sensitive the decision makers, officials and relevant local communities on efficient use of wester through ste-mats, sentinars, outreach workshops, publications and mass awarene sa all ang.							A								
Develop and print arcareness   Avoareness Avoareness   Avoareness casing material   — — — — — — — — — — — — — — — — — —	2231		Attange at least six outreach workshops at completed project sites for smiler policy makers officials and relevant communities							-	-	•					
Indicate at least times  Con Byte Interventions  Con Byte Interventions  Con Byte Interventions  Develop and perint technical  Technical publications  Develop and perint technical  Technical publications  Develop and perint technical  Technical publications  Of celevant policies and baves,  and lautic absents and laws,  and lautic absents and laws  Awareness for implementation  of these policies and baves  Awareness for implementation  of these policies and baves  Awareness for implementation  of these policies and baves  deceased the gration of blodders ethy values into policy, planning and precice in coastal areas of Balochistan.  Establish excelogeal and  economic mopro-ace of coastal  deceased the gration of blodders and baves  and the gration o	2232		Develop and print awareness raising materials for wide dissemination	Awarene ss raising material (video clips, posters) and events		l l	1	L	+	-		f.	ı	1	1		
Develop and print technical publications  publications on important  publications on important  Productions on important  Reserved in the product of sustainable water  Interpreted integration of blockles and laws,  and tunes policies and laws,  and tunes policies and laws  (Establish ecological and economic importance of coastal and prestice in coastal areas of Bel ochistan.)  Establish ecological and economic importance of coastal and prestice in coastal areas of bel ochistan.	2333		Hold at least three National/regional level seminars on BPSD interventions		Seminar report										) mines	To be undertaken in 2013	
Farmate revery modifications of relevant policies and laws, and laws awareness for implementation of these policies and laws  Exability ecological and economic importance of coastal econ	2234		Develop and print technical gubfications on important is spects of sustainable water management	Technical publications	Documents											To be undertaken in 2013	
-	223.5		Facerlate resety/modifications of relevant politics and laws, and luth capacity and raise awareness for implementation of these polities and laws											.,		it would be request based.	
econstem though up saing	231	Exablish ecological and economic importance of coastal	raty values into policy, planning	and practice in coastal areas of	Bal ochistan.	-											
		ecosystems through up saing													15-215 5		

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Code	Key Activities	1996	Deliverables/Targets 2012	Means of Verification	Jan Heb Mar Apr May Jun	e Ma	ğ	Ma	UN I	20	AUE	9,	Š	Men Oct Nov Dec	Dec	Explanmory Notes
2311		Undertake stees identification Bhough scoping missions and dialogue with relevant communities and line departments	New Viesover 200 has selected	List of selected stes												Already completed.
23.1.2		Collect and sow week, undertake earthwork, backfill the pil y'tenches and prepare irrigation channel network	Maintenance of existing plantation	Stocks						ngaskii/ ut-iii	National Schill					Already completed.
2313		Transport and transplant sapings, seedings, widdings and container plants to sites														Aire ady completed.
231.4		Maintenance of newly raised plantations and natural assisted regeneration in all sites in Uthal and Gwadar districts	1,000 ha	Plantations per 90	[ ] [ ]	1	1	1	1	1	1	I	1	1	1	
23.15		Greening of Byzani and Uthal as 20,000 sapings of coronut, model towns  Date Palm, Angle Jalahi, C. Lignum, Boughen villa, Lignum, Boughen villa,	20,000 sapiings of coconut, Ber, Date Palm, Angle Islaibi, Cassia Lignum, Boughen villa,	Ber, Plantations per se assia	1	1	1	1	1	1	1		1	1	1	
2316		Rasarg of block plantation of indigenous plants in the catchment area of Ankara, Sawar and Dasht Rivers	150 ha	Plantations per se			1	1	1	1	1	1	1	1	1	
2317		Introduction of private village nur series concept for the improvement of environment and income of local villages in Gwadar and Lasbela districts	3 ran series at fivani, Shahbi (re-Nurseries per se establishment) and Pasni of 30,000 cortainer plants each	Nursaries per se		1	1		1	1	1	1	1	1	1	
2318		Develop e cotourism infrastructure including walkway/platform									1	1	E	1		
232	Facilitate livelihood diversification for coastal communities through projects on kio-saline/and agriculture and aquaculture.															

Code	Key Activities	Tesks	Deliverables/Targets 2012	Means of Verification	Jen F	Feb Mar	ar Apr	r May	anr Jun	In	Aug	Sep	8	Oct Nov	Dec	Explanatory Notes
2321		Sand dure stabilization in Pasni, 2 km Gwadar, Son Mani and Dam	2 km		1	1			ł	ı		1	1	T	1	
23.22		Demonstrate Apiculture at Prag, Agore, Hingol N. Park	5 honeybee colonies		]	1	1	1	1	1	ı	ı	1	1	1	
233	Document and disseminate ecological and economic importance of coastal ecosystems as well as success stories in integrated coastal zone management to wider constituency.															
2331		Develop documentarie sand awar eness raising material for highlighting coastal ecosystem issues	throchures, powers and knowledge products on mangroves plankation raised under 8PSD, flora and fauna of Astola Ecrosystem		1	1	1		1	1	1	1	1	1	1	
2332		Support saudy on climate Study on floc change, valverability, economic Astola Island and ecological impact/valuation sure capacity building and savarene va raising Covater Bay Covater Bay Prepare for n Kalmat Hor a	Study on flor a and fauna of Astola Island Survey of coral reef/whale shark from Astola island to Gwater Bay Prepare for nomination of Kalmat Hor as Ramsar site		1				1	l	•	Ī	1	•		
2333		Undertake furth conservation on Task and Dar on heaches	Survey of turtle nesting sites on Balochistan coast		ı	1		1	1	L	1	1	1	1	1	
23.4	Provide technical assistance to the relevant authorities for the development and adoption of Integrated Coastal Zone Management (ICZM) Plan.	Disseminate LZCMP Plan					ar Ar									Completed in 2011.
m	To enhance capacity of	To enhance capacity of relevant stakeholders to support sustainable development in Balochistan as a contribution to the national agenda	upport sustainable develop	pment in Balochistan as a	contri	ontio	o to t	ne na	tiona	age	ep					
111	Trained provincial and district. Develop training modules on developing and implementing IDDVs.	Trained provincial and district government officials and dvil society organizations in IDOV of Develop training modules on developing and implementing IDDVs.	iety organizations in IDDV develo	levelopment and implementation processes.	cetter.			-				10714				Already completed.

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Explanatory Notes						Already completed.		secondarios.			
Dec					1					1	1
Nov	-				1				•	1	1
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Aug			ı	1	ı					!	ı
In			1	1	1					1	1
I Jun			1	1	i					ı	1
May			1	1	ŧ	_			<u> </u>	1	1
Apr			ı	1	1					ı	1
Mar			1	1	1	_				1	ı
Feb			1	!	1			•		•	1
Jan			1	1	1			_	1	1	1
Means of Verification											
Deliverables/Targets 2012	Training on integrated NRM		Demonstration of community based disaster resiliance model at Gunz	Pilot simplified early warning system for coastal communities			eloped and put in place.				
Tasks Deliverables/Targets 2012	Build capacity of other relevant provincial and district line departments, IUCN members, communities and civil society	Build capacity of GoB and relevant organizations in disaster preparedness			Implement a Young Professional Development Programme		int systems and mechanisms dev	Develop annual work plan 2012	Hold PAG meeting		Documentary on BPSD work in Balochistan Booldet on erwironment and Islam BPSD website
Key Activities					- 1	Develop technical capacity of relevant BEPA officials and civil society for effective environmental assessments and monitoring.	Effective programme management systems and mechanisms developed and put in place.	Hold Inception Workshop and Develop an overall Operational Plan and sub-sequent annual work plans.	Reconstitute and operationalise Hold PAG meeting the Programme Advisory Group.	Monitor and report the Programme implementation on regular basis	Document and share knowledge generated from the B Programme implementation. B
Code	3223	3.2.2.4	3.2.2.4.1	3.2.2.4.2	3.2.2.5	3.23	3,3	3.3.1	3.3.2	333 333	33.4

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Legend - Continu

Continuous activity

## Annex E(Mission Schedule)

## BALOCHISTAN PARTNERSHIPS FOR SUSTAINABLE DEVELOPMENT 2<sup>nd</sup> Monitoring and Evaluation Mission Schedule 12, June 2012 - 09, July 2012

		12, Julie 2012 - 0		
Day & Date	Time Line	Activity	Venue	Participants
Tuesday	19:00-20:55	Travel: Islamabad-Karachi		PA-ST
12 June 2012		(PK 309)		
	09:20-10-35	Travel: Quetta-Karachi		IAB
		(PK 363)		
Night Stay at Kar	achi PC Hotel			
	07:00-18:00	Day Trip to Hingol and back to	Hingol	PA, ST, JR,TQ, SMA
Wednesday		Karachi		
13 June 2012	09:50-11-50	Travel: Quetta-Karachi		ZKB
		(PK-363)		
Night Stay at Kar	achi PC Hotel	THE PARTY OF THE REST		
Thursday	07:00-08-30	Travel: Karachi-Gwadar		PA, ST,ZKB,TQ
14 June 2012		(PK-523)		
		Meetings DG GDA, Gwadar Port	Gwadar	PA, ST, ZKB ,TQ,
* IAB to return	PK-352	Authorities, DC and stakeholders		BPSD Gwadar Team and Stakeholders
to Quetta	14:00-15:20	Dinner		
		*Travel Karachi-Quetta		IAB
Night stay at Gwa	adar PC Hotel			
Friday		Field visit to mangrove plantation	Shabi and	PA, ST, ZKB, TQ, and BPSD Gwadar
15 June 2012			Jiwani	Team
Night stay at Gwa	adar PC Hotel			
		Briefing by District Coordinator,	BPSD Gwadar	PA, ST,ZKB,AS, TQ
Saturday		Gwadar	Office	
16 June 2012	04:20-05:50	Travel: Gwadar-Karachi		PA, ST,ZKB, TQ
		(PK-504) and check-in at PC		, , , , , , , , ,
		hotel		
Night Stay at Karachi PC Hotel  Sunday 11:20-12:45 Travel: Karachi 17 June 2012 (PK-352)				
Sunday 11:20-12:45 Travel: Karachi-Que		Travel: Karachi-Quetta		ST and ZKB
17 June 2012		(PK-352)		
Night Stay at Que	etta			
Monday		Study of relevant Project literature	QPO	ST,ZKB
18 June2012		Travel: Islamabad-Quetta		
				HS
Night stay at Que	tta Serena			
Tuesday	08:45-10:10	Travel: Lahore-Quetta		PA
19 June 2012		(PK-323)		
	11:30-16:30	Meeting on Project Progress	QPO	PA,ST,HS,ZKB, IAB
		Sharing with PM		
Night stay at Que	tta Serena			

Wednesday 20 June 2012		Meeting with BPSD Team and project briefing	BPSD Office	PA, ST,HS and BPSD Team
Night stay at Ser	ena Hotel			MOSE CONTRACTOR DECEMBER OF
Thursday 21 June 2012		Field Visit to Iskan Khan- Sar Khan Zai with lunch at DC Rest House Pishin	Iskan Khan, SarKhanzai	PA, ST,HS, ZKB, IAB,NK
Night stay at Ser	ena Hotel			
Friday 22 June 2012	11:00 TBD	Meeting with Secretary Forest Travel: Quetta-Islamabad	Quetta Civil Secretariat	PA, ST,HS, ZKB HS
Night stay at Ser	ena Hotel			
Saturday 23 June 2012		Study of Project documentation	Serena Hotel	PA and ST
Night stay at Ser	ena Hotel			
Sunday 24 June 2012		Study of Project documentation	Serena Hotel	PA and ST
Night stay at Ser	ena Hotel			
Monday 25 June 2012	09:00-10:00	Meeting with VC SardarBahadur Khan Women University	Women University	PA, ST and ZKB
Night stay at Ser	ena Hotel		in the Salar Control	
Tuesday 26 June 2012	08:00-16:00	Field visit to Saro Karez, Chotair and back	Tangian	PA, ST,ZKB, IAB,NK
Night stay at Ser	ena Hotel			Plant and the second se
Wednesday 27 June 2012	10:00 -11:30	Meeting with Director General AZRI	AZRI Office	PA, ST and ZKB
Night stay at Ser	ena Hotel		110000151101	
Thursday 28 June 2012	12:30-02:00	Meeting with Secretary Environment	Quetta Civil Secretariat	
		Meeting with Minister Environment	IUCN Quetta Office	PA, ST and ZKB
	03:00-04:00	Meeting with relevant Staff of UoB		
Night stay at Ser	one Hotel			
	ena notei			
Friday 29 June 2012	10:00-13:00	Field visit to IWRM site and meeting with Hanna Lake Development Authority	Hanna Lake	PA, ST, ZKB, IAB
,	10:00-13:00	meeting with Hanna Lake	Hanna Lake	IPA, ST, ZKB, IAB
29 June 2012	10:00-13:00	meeting with Hanna Lake	Hanna Lake Serena Hotel	PA, ST, ZKB, IAB
29 June 2012  Night stay at Ser Saturday 30 June 2012	10:00-13:00 ena Hotel	meeting with Hanna Lake Development Authority		
29 June 2012 Night stay at Ser Saturday	10:00-13:00 ena Hotel	meeting with Hanna Lake Development Authority		

Monday	08:00-09:20	Travel: Islamabad-Quetta	IUCN Quetta	HS
02 July 2012		( PK-329)	Office	
	11:00-1:30	Meeting with Stakeholders of District Mastung		PA, ST,HS,ZKB and relevant staff of BPSD
	15:00-16:00	Meeting with Additional Secretary Education	Quetta Civil Secretariat	PA, ST and ZKB
Night stay at Ser	ena Hotel			
Tuesday	08:00-16:00	Field Visit to Iskan Khan and back		ST,IAB and NK
03 July 2012				
		Meeting with Secretary Irrigation	Quetta Civil Secretariat	PA and ZKB
Wednesday	09:00-17:00	Debriefing Session with BPSD	IUCN –Quetta	PA ,ST,HS,ZKB and BPSD Team
04 July 2012		team	Office	
		Travel: Quetta-Islamabad		HS
Thursday 05 July 2012	PK-352 10:20-11:45	Travel Quetta-Islamabad	IUCN –Quetta Office	PA and ST
Friday 06 July 2012	TBD	Mission De-briefing to EKN	IUCN – Islamabad Office	PA, ST, ZKB, HS, EKN staff
Monday 09 July 2012		Submission of final Report to EKN	Islamabad	PA, ST

Legend: PA - Dr.Pervaiz Amir ST - Sardar Tariq SMA- Shah MuradAliani HS - Hamid Sarfraz

ZKB - Zabardast Khan Bangash

IAB- Irfan Ali Bakhtiari NK- Naseebullah Khan

AS- Asghar Shah JR- JavedRasool TQ- TahirQureshi

