

DARWIN INITIATIVE PROJECT SCHEDULE ref:162/08/196

Organisation name : Royal Botanic Gardens Kew

Name of project : The Darwin Project in Coastal Vegetation Survey and Conservation for Lebanon

Project purpose : To establish national capacity for botanical inventory, threatened species management and protected area planning

Project objectives : To carry out a survey of coastal vegetation areas, to carry out an inventory of coastal species; identifying threatened plant species and habitats; to identify important coastal areas for plant conservation; to train in botanical inventory, plant identification and herbarium management; to train in recovery planning for three selected species and initiation of planting projects with coastal resorts; to establish plant biodiversity as a teaching and research component within Lebanese universities; to establish horticultural trials for Lebanese coastal species with commercial partners.

Length of project : April 1999 for 3 years

Total project cost : £188,540

Darwin funding profile : 1999/2000 £57,960; 2000/2001 £51,460; 2001/2002 £31,220

Other sources of funding : RBG Kew will provide a proportion of staff time and teaching facilities in kind as will the American University of Beirut. Alternative sources for funding will be located for horticultural supplies, aerial photographs and any associated molecular studies.

Expenditure profile : see Table A

Target outputs : see Table B

Implementation timetable with milestones : see Table C

Key staff inputs : see Table D

Reporting requirements : 31 October 1999	First report (1.4.1999 to 30.9.1999)
30 April 2000	Annual report (1.4.1999 to 31.3.2000)
31 October 2000	Six month report (1.4.2000 to 30.9.2000)
30 April 2001	Annual report (1.4.2000 to 31.3.2001)
31 October 2001	Six month report (1.4.2001 to 30.9.2001)
30 April 2002	Annual report (1.4.2001 to 31.3.2002)
30 June 2001	Final report.

Arrangements for monitoring trainee outcomes : The MSc students will be subject to normal monitoring requirements. The course will be regularly evaluated by the project stakeholders.

Table A

PROJECT COST				
Total Darwin Grant : £140,640				
Annual Darwin Grant				
☺	1999/2000	£57,960		
☺	2000/2001	£51,460		
☺	2001/2002	£31,220		
DARWIN GRANT : EXPENDITURE DETAILS				
Expenditure details	1999/2000	2000/01	2001/02	Total
Rents, rates, heating, lighting, cleaning				
Postage, telephone, stationery				
Travel, subsistence				
Printing				
Conferences, seminars, training				
Capital items				
Other: photographic materials				
Salaries				

Table B

PROJECT OUTPUTS		
Year	Output ref. no.	Details
1999/2000		
June- November	4C/D	10 days field training in survey, plant identification and collection of herbarium samples for 10 Lebanese postgraduate students
	4C/D	5 days training in plant identification at the AUB Herbarium for 10 Lebanese postgraduate students (dates tba)
February	7	Initial coastal species list produced
October	4C/D	1 postgraduate student to complete Plant Conservation Techniques course of 2 months at RBG Kew
February	22	10 Permanent Plots established on study sites
2000/2001		
November	4C/D	10 days field training in survey, plant identification and collection of herbarium samples for 10 Lebanese postgraduate students
	4C/D	5 days training in plant identification at the AUB Herbarium for 10 Lebanese postgraduate students (timing tba)
	4C/D	5 day course on recovery planning for 10 postgraduates completed (timing tba)
March	2	2 MSc students qualify
2001/2002		
November	4C/D	10 days field training in survey, plant identification and collection of herbarium samples for 10 Lebanese postgraduate students
	4C/D	5 days training in plant identification at the AUB Herbarium for 10 Lebanese postgraduate students (timing tba)
November	11B	Paper on distribution of coastal vegetation
January	11B	Paper on Conservation status of Lebanese flora
February	7	1 training pack produced
February	7	Revised list of identifications produced
February	10	Production of Florula
	14	1 week specialist meeting held on conservation strategies for coastal vegetation for up to 15 participants (timing tba)
March	8	Total amount of time spent by UK staff in Lebanon - 120 working days May 1999-March 2002
March		2 MSc students qualify
		Seminar on horticultural use of indigenous species (timing tba)

Table C

PROJECT IMPLEMENTATION TIMETABLE	
Date	Key milestones
1999/2000	
June	First Annual Project Planning Meeting in Beirut
June	Training in botanical inventory, plant identification and herbarium management starts
July-September	Training at Kew
June-January	Survey carried out of coastal vegetation areas by survey of UK and Lebanese herbaria (eight months-June 1999-January 2001)
June	Meetings will be held with Ministry of Environment to ensure early collaboration with the project.
August	5 target sites selected for detailed survey
June-October	Seed Collecting
August-January	Horticultural Trials and trial plantings
November	Mapping of coastal habitats completed
January	Identification of target species for recovery completed
tba	Recruitment of two MSc students
2000/2001	
April	Second Annual Planning Meeting
April-May	Trial plantings
January	Compilation of species list completed , Revised species list for the coastal zone produced
October	Production of Horticultural protocols
tba	Recruitment of two MSc students and qualification of two selected in PY1
2001/2002	
April	Third Annual Planning Meeting
February	Red Data list produced on coastal area as part of Florula
September	Specialist Meeting
November	Survey of important sites completed and priorities for protected areas identified in report to Gov. of Lebanon
February	Training completed
tba	Qualification of two MSc students recruited in PY2

Table D

KEY STAFF INPUTS			
Name	Grade/Position		
Dr Mike Maunder	Project leader		
Mr Nigel Hepper	Consultant		
Dr Clare Hankamer			
*Field worker (to be appointed, see beneath)			
Dr S Jury	Project co-ordinator		
Dr Salma N Talhouk	Field techniques and collecting		
Dr Khouzama Knio	Responsible for environmental soils and GIS		
Dr Rami Zurayk	Seed scientist		
Dr Riad Baalbaki	Trainee		
AUB Graduate	Trainee		
AUB Graduate	Trainee		
STAFF TIME ALLOCATIONS (% of time spent on this work)			
Name	1999/2000	2000/2001	2001/2002
Dr Mike Maunder	15	15	15
Mr Nigel Hepper	20 days	----	----
Dr Clare Hankamer	10 days	10 days	10 days
Field worker (name please)	20 days	20 days	20 days
Dr S Jury	20 days	20 days	20 days
Dr Salma N Talhouk	30	30	30
Dr Khouzama Knio	20	20	20
Dr Rami Zurayk	20	20	20
Dr Riad Baalbaki	(timing tba)	(timing tba)	(timing tba)
AUB Graduate	100	100	100
AUB Graduate	100	100	100

* RBG Kew intend to recruit an ASO for 18 months using the salary allocation of Maunder and Hankamer plus additional Kew funds to spend 50% of the time working on this project both in the UK and Lebanon. Particular emphasis on assisting the AUB team with vegetation survey techniques.