Government of the People's Republic of Bangladesh
Ministry of Communications
Roads & Highways Department

Development Project Proposal (DPP)

Name of Project

Emergency Flood Damage Rehabilitation Project-2007
(RHD Component)

Length

Road : 889.15 Kilometer
Bridge : 1268.28 Meter
Culvert : 517.98 Meter

Total Investment Cost
(in Lac Taka)

GOB	Project Aid		Total
	RPA	DPA	
16230.50	**38935.47**	**889.00**	**56054.97**

October 2007

Development Project Proposal (DPP)

PART - A

PROJECT SUMMARY

01. Project Title : Emergency Flood Damage Rehabilitation Project-2007.
02. a) Sponsoring Ministry / Division : Ministry of Communications.
    b) Executing Agency : Roads and Highways Department.
03. Objectives of the Project : Rehabilitation of 2007 Flood Damage National, Regional and District Roads to restore the road network as per-flood level or to a higher standard and to take appropriate protective measures to minimize future flood damage.
04. Location of the Project : **Place** — Location Map Attached; **Upazilla / District** — All over Bangladesh.
05. a) Estimated Cost of the Project -
    i. Total : Tk. 56054.96 Lac
    ii. GOB (FE) : Tk. 16230.50 Lac (-)
    iii. PA (RPA) : Tk. 39824.46 Lac (Tk. 38935.46 Lac)
    b) Exchange rate with date : 1 US$ = 69.00 BDT
06. Location wise cost break-down : Attached in **Annexure-I**
07. Mode of Financing with Source (In Lac Taka)

Mode of Financing	GOB (FE)	PA (RPA)	PA Source
1	2	3	4
Loan / Credit	-	39824.47 (38935.47)	ADB
Grant	16230.50 (-)		
Equity	-	-	-
Others (specify)	-	-	-

08. Project Implementation Period -
    i. Date of commencement : 01-01-2008
    ii. Date of completion : 31-12-2009
09. Components and Estimated Cost Summary (Taka in Lac)

Budget	Economic Code	Code Description	Estimated Cost					
			GOB	Project Aid			Grand Total	% of the Total Cost
				RPA		DPA		
				Through GOB	Special Account			
(a) Revenue								
	4800	Consultancy	586.02	2431.68	-	889.00	3906.70	6.97%
		Sub-Total Revenue:	**586.02**	**2431.68**		**889.00**	**3906.70**	**6.97%**
(b) Capital								
	7000	Civil works	14222.25	33185.26	-	-	47407.51	84.57%
	7980	Capital Block Allocation & Miscellaneous Expenditure	1422.23	3318.52	-	-	4740.75	8.46%
		Sub-Total Capital:	**15644.48**	**36503.78**		**0.00**	**52148.26**	**93.03%**
		Grand Total (a + b):	**16230.50**	**38935.46**		**889.00**	**56054.96**	**100.00%**

10. Institutional arrangements for implementation / executing -
    a) Whether the Project Director will be a Departmental officer or to be recruited? : ☑ Departmental ☐ Recruited
    b) Whether the Project Director will be full time or part time : ☑ Full Time ☐ Part Time
    c) Attached Proposed Management Setup : Project Management Set-up is Attached in **Annexure-II.**
    d) Attach Log frame : Attached in **Annexure-III**
11. Attached Procurement Plan : Attached in **Annexure-IV(b)**

12. Give year wise Physical and Financial Target Plan : Attached in **Annexure-V**

13. After completion , whether the project needs to be transferred revenue budget

a) If yes, briefly narrate the institutional arrangement and financial requirement for operation and maintenance : There are two type projects, like development & maintenance project. After completion the project will be transferred to RHD development project & revenue budget.

b) If not, briefly narrate the institutional arrangement and financial requirement for operation and maintenance : Does not arise.

Signature of officer(s)
responsible for the preparation of the DPP
with seal and date

PART - B
[Project Details]

14. Background, Objectives, Rationale, Linkages, Targets and Outputs/Outcomes of the Project including findings of feasibility study / survey, if any : Bangladesh is one of the most disaster prone countries with respect to natural disaster like cyclones, typhoons, storms, flood, etc. Topography of Bangladesh is mostly flat and deltaic nature which makes it susceptible to frequent flooding. Besides this flash flood often occurs as a result of heavy rainfall in the upper catchments area of neighboring country, causing massive overflows within Bangladesh. Recently the country has experienced major devastating floods in 1988, 1998, 2000, 2004 and 2007 causing severe damage to infrastructure and other assets specially the RHD road network.

Flood-2007

Out of 64 districts, 53 districts of the country have been affected by the catastrophic flood in 2007 among then 40 districts have been affected seriously. The flood continued for about 20 days in the 1st phase starting from 4th quarter of July 2007 and for about 15 days in the 2nd phase starting from 1st quarter of September 2007.

Length of RHD road damaged during the flood-2007

Category of Road	Total length of road (in km)	Length of effected road (in km)	% effected
National Highway	3520.50	441.30	12.54%
Regional Highway	4286.81	272.46	6.36%
District Road	13752.73	1630.26	11.85%
Total :	**21560.04**	**2344.02**	**10.87%**

Out of 2344.02 km flood affected road immediate repair work for a portion of the road has already been started diverting maintenance fund of RHD and another portion of the ADP on going roads would be repaired or rehabilitated by using a part of the present ADP allocation. Remaining 889.15 km of road is proposed to repair or rehabilitate as a flood

damage rehabilitation project under Asian Development Bank (ADB) Assistance. It is expected to get 70% of the project cost from ADB loan and 30% from the GOB grant and accordingly this DPP has been prepared.

The work component of the project is considered on the preliminary assessment of RHD field unit offices, but actual work component and the volume of the work will be finalized by the consultant's detail survey.

15. Whether any Pre-appraisal / Pre-investment study was done before Formulation of this Project? If so, attach Summary of Findings & Recommendations in terms of - Pre-appraisal / Pre-investment study will be done by consultant.
    a) Net Present Value (NPV) -
        i. Financial : -
        ii. Economic :
    b) Benefit-Cost Ratio (BCR) -
        i. Financial : -
        ii. Economic :
    c) Internal Rate of Return (IRR) -
        i. Financial : -
        ii. Economic :
16. Whether Project(s) similar nature has / have been implemented earlier and / or under implementation? If so, mention the name, date and major findings : Yes, Emergency Flood Damage Rehabilitation Project-2004 has been implemented by RHD. Evaluation has not yet been done.
17. Indicate the basis of total and item-wise cost estimate : Item wise estimate is given bellow.

(Rate & Cost in Lac Taka)

Economic Code / Sub-code	Code / Sub-code Description	Unit	Qty.	Unit Rate	Total Cost
(a) Revenue					
4800					**3906.70**
4874	01. Consultancy (including VAT & Tax)	MM	2044.00		3906.70
	(a) Sub-Total (Revenue) :				***3906.70***
(b) Capital					
7000	**Civil Works**				**47407.51**
7021	01. Earthwork for Embankment Repair	Lac m^3	50.03	127.36	6372.03
7021	02. Repair / Reconstruction of Pavement	km	889.15	29.23	25993.51
7026	03. Rehabilitation / Reconstruction of Bridge	m	1268.28	4.00	5074.80
7026	04. Rehabilitation / Reconstruction of Culvert	m	517.98	3.63	1881.46
7081	05. Protective work	m	96940.00	0.08	8085.71
7980	**Capital Block Allocation & Miscellaneous Expenditure**				**4740.75**
7981	06. Physical Contingency		5.00%		2370.38
7981	07. Price Contingency		5.00%		2370.38
	(b) Sub-Total (Capital) :				***52148.26***
	Total (a + b) :				**56054.96**

18. Give comparative cost of major items of similar other projects :

Sl.	Name of the Project	Date of completion	Name of major items	Unit / cost (in Lac Taka)
1	2	3	4	5
01	**Proposed project**	30-06-2009		
	Emergency Flood Damage Rehabilitation Project-2007		Repair / Reconstruction of Pavement	29.23 / km
			Rehabilitation / Reconstruction of Bridge	4.00 / m
			Protective work	0.08 / m
02	**Similar completed project**			
03	**Similar on going project**	30-06-2008		
	Emergency Flood Damage		Repair / Reconstruction of Pavement	15.10 / km

	Rehabilitation Project-2004		Rehabilitation / Reconstruction of Bridge	4.70 / m
			Protective work	0.034 / m

19.	Attach detailed annual phasing of cost	:	Attached in Annexure-VI
20.	Specification / Design of major components (attached, if possible)	:	It is done by design consultant.
21.	Justify whether the most cost-effective method has been selected in case of projects whose benefits are difficult to quantify	:	Does not arise.
22.	Briefly describe the effect/impact on	-	
	i) environment link and, water, air, bio-diversity etc.	:	Sufficient drainage structures will be constructed along the road. So, there will be no effect on water. Measures will be taken to avoid air pollution & impact on bio-diversity.
	ii) women and children	:	Women living near the project area are used to do the construction work. So, they can be involved in road construction works. Their wages are expected to be used for their children. So, there will be a positive impact on women & children.
	iii) employment, poverty alleviation, etc.	:	During construction period a good number of employment will be generated for the construction work. After construction of this road, industrial development will take place near the project area. So, more employment opportunities will be created which ultimately will help to alleviate poverty.
	iv) institutional, productivity	:	
23.	Whether private sector / local government or NGO's participation was considered? Describe how will they be involved?	:	Not applicable
24.	In case of aided project mention the major conditionality	:	Not applicable
25.	Does the project involve rehabilitation / resettlement? If so, indicate the magnitude and cost	:	Not applicable
26.	Any other important details, technical or otherwise (e.g. sustainability, governance)	:	Best Technical and Economical Alternate has been selected.

Signature of Head of the Executing Agency with Seal and Date

Recommendation and Signature of the Secretary of the Sponsoring Ministry / Division with Seal and Date

Annexure-I

Location wise cost breakdown

Sl. No.	Division / District	Sub-District / Upazilla	Estimated cost (in Lac)	Comment
1	2	3	4	5
01	All over Bangladesh		56054.96	
	Total :		**56054.96**	

Annexure-II

Project Management Set-up