

**Government of Rajasthan**  
**Directorate of Watershed Dev. & Soil Conservation**  
**Pant Krishi Bhawan, Jaipur Rajasthan**

No. F18 ( I- 49)IWMP/WDSC/2010-11/1025-1064

Dated : 15/7/10

All Project Manager  
DWDU  
Zila Parishad  
.....

Sub : Guidelines for preparation of DPR .

As you are aware that the DPR for IWMP projects sanctioned in 2009-10 is to be prepared as per para 51 to 58 of Common Guidelines - 2008 with complete input of GIS and Remote Sensing, base line survey, livelihood and production system intervention etc.

1. The broad indicative out lines for DPR preparation chapter wise is enclosed herewith at Annexure 'A'.
2. The DPR will consist of various base line non spatial data to be collected from the field by WDT under supervision of JEN/AEN. The details of the various data required for inclusion in the DPR are enclosed at Annexure 'B'. In addition base line data to be collected for preparation of livelihood intervention is enclosed as Annexure 'C'.
3. The NRM component of DPR would require many scientific and technical data. As such the department has planed to prepare various thematic layers i.e. present land use, land cover, topographical details, slope groups, contour drainage line, macro & micro boundary etc. on 1:10000 scale to SRSAC . In this context there is a urgent need of collection of revenue khasra maps of project area, subsequently same are to be scanned on 300 DPI is to be submitted to SRSAC for digitization.

Hence, in order to prepare the DPR with complete input based on spatial and non spatial data as indicated in above 3 points have to be collected through WDT, AEN / JEN within a month. It would be appropriate to sensitize the WDT members with related formats so as to collect field data and other information in meticulous manner.

The progress of DPR preparation and other relevant information will be review in every monthly meeting at Directorate level.

*Pm*  
Director

No. F18 ( I-49)IWMP/WDSC/2010-11/ 1025-1064

Dated : 15/7/10

Copy to :

1. Dr. N.K. Kalra, Project Director cum Deputy Secretary, State Remote Sensing Application Centre, Subhash Nagar, Pal Road, Jodhpur(Raj) with the remarks the enclosed formats for non spatial data may please be peruse at your level and in case any additional non spatial data is required please intimate so that the periodic evaluation and impact study can be done with pre and post project concept.
2. All district OIC..... with remark they must guide field officials on indicated points.

*Pm*  
Director

NO: F18(I-49)IWMP/WDSC/2010-11/1065

Dated:- 15/7/10

✓ Copy forwarded to ACP (NO) to upload ~~this~~ on Department's web site.

*(Pm)*  
DDCIWMP

# Annexure 'A'

## Broad Outlines For Preparation Of DPR For Watershed

### CHAPTER - I

INTROCUCTION : Location, general features of watershed, present status of land use and rain water storage, soil erosion, socio economic status, problem and scope of improvement goods / objectives ,institutional arrangements (SLNA,DWUDU,PIA,WDT,WC,Secretary)

### CHAPTER - II

#### I. Basic Features : Socio economic and Infrastructure

- a) Land use and land classification map , land capability map, Present land use - arable, non arable land , Govt. land, pasture land.
- b) Agriculture and Horticulture status and fuel availability.
- c) Livestock status - animals/milk production / average yield and Fodder availability.
- d) On-farm and Off-farm other income generating activities.
- e) Demography -Total Population, BPL, SC,ST,SF,MF, land less
- f) (a) Other infrastructure facilities available.  
(b) Co-operative Societies and their activities.  
(c) Banks, Post office, Schools.  
(d) Roads, Connectivity  
(e) Any other
- g) NREGA Status - No. of Card Holder, activities taken so far , employment status.
- h) Development indicators
- i) Land holding details - SF, MF, SC, ST, Others
- j) Other Development Schemes in the project area

#### II. Technical Features

- a) Revenue maps
- b) Topo maps/ watershed maps with drainage line / Survey maps (as prescribed and utility)
- c) Hydro-Geological maps / Ground water status and prospect maps
- d) Slope details.
- e)(i) Available surface runoff based on average rainfall  
(ii) Surface runoff tapped in existing structures like Panchayat Tanks /Irrigation tanks / NREGA structures.
- (iii) Balance available runoff
- f) Soil Map and Soil details
- g) Climate details
- i) Erosion details

#### III Problems, Demand and scope for comprehensive area development

- a) NRM
- b) Agriculture and Horticulture productivity gap analysis
- c) Live-stock - gap of fodder availability

- d) Livelihood
- e) Micro-enterprises.

### **CHAPTER - III - Proposed Development Plan**

#### **A) Preparatory phase activities Capacity Building Trainings and EPA**

#### **B) NRM**

- i) Conservation measures for arable lands
- ii) Conservation measures for non-arable lands
- iii) Drainage line treatment
  - a) Gully Control Structures
  - b) Runoff management structures
  - c) WHS - Anicut/Tanks
  - d) Ground water recharge structures if any.

#### **C) Production System and micro enterprise**

Production measures for arable lands

- i) Crop Demonstration IPM,INM,Vermicompost,organic farming
- ii) Sprinklers and Drip irrigation - with Target groups
- iii) Agriculture implements - with target groups
- iv) Diversification in Agriculture, Horticulture and Flori Culture medicinal plants

, area to be covered Hi tech Agriculture

Production measures for non arable lands

- i) Silvi pasture works on Govt. waste / Pasture land
- ii) Fuel and fodder production on private non arable lands)

Production systems & Micro Enterprise Agriculture based( on farm) &Non-Agriculture (off farm)

- i) Seed Bank
- ii) Post harvest activities
- iii) Storage of grain and seed
- iv) Value addition
- v) Any other

#### **E) Livelihood activities particularly for asset less person**

- i) Individuals
- ii) SHG

Activities

- i) Agriculture based( on farm)
- ii) Non Agriculture land (off farm)

Livestock based activities

- a) Milk collection booth
- b) Dairy
- c) Poultry
- d) fishery

Off – Farm

- i) Local craft if any
  - ii) Repair shops for cycle / two wheelers
  - iii) Grocery shops
  - iv) Any other specific carpentry / Tailoring etc.
- F) Consolidation phase Activities proposed (common guidelines)

### **Abstract of Activities**

## **CHAPTER IV**

Technical designs and estimates for proposed activities.

- i) NRM - Conservation measures - arable , non arable  
Drainage line - gully control structures, Run-off management structures  
WHS - Hydrological Hydraulic and structure designs
- ii) Silvi Pasture Development
- iii) Agriculture, Horticulture, Flori culture, Estimate, Unit cost
- iv) Livelihood
- v) Micro enterprise

### **Convergence**

- i) NRM (NREGA / Others)
- ii) Agriculture / Horticulture with Agriculture Deptt.
- iii) Livelihood / micro enterprise with ICDS / RUIDP

## **CHAPTER - V**

Activity wise Total Abstract of cost

Total abstract cost through project funds

Total abstract of cost through convergence by other schemes -  
NREGA/Agriculture/ICDS etc

## **CHAPTER - VI**

Annual Action Plan

- A) Project funds
- B) Convergence

## **CHAPTER - VII**

Project outcomes

- a) NRM

- b) Agriculture production measures
- c) Horticulture / floriculture additional income
- d) Livestock
- e) Livelihood
- f) Micro Enterprises
- g) Overall average income of families

**CHAPTER - VIII**  
**Year wise Break up**

**CHAPTER - IX**

Enclosures - Various GIS thematic layers

**Annexure - B**

**Basic Information formats for DPR  
Identification**

S.No.	Name of Project	
(a)	Name of Catchment	
(b)	Name of watershed area	
©	Project Area	
(d)	Cost of Project	
e)	cost/hectare	
f)	Year of Sanction	
g)	Watershed Code	
h)	No. of Gram Panchayatsin project	
i)	No. of villages in project area	
j)	Type of Project	Hilly/Desert/other
k)	Elevation (metres)	
l)	Major streams	
m)	Slope range (%)	

Name of Gram Panchayat	Name of Villages Covered	Census code of villages	Area
1	1		
	2		
	3		
2	1		

**Climatic and Hydrological information**

**Name of Agroclimatic Zone**

<b>1 Average Annual Rainfall(mm)</b>			
	Year	Average Annual Rainfall(mm)	
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
<b>2 Avg Monthly rainfall (last ten years)</b>			
	Month	Rainfall(mm)	
i)	June		
ii)	July		
iii)	August		
iv)	September		
<b>3 Maximum rainfall intensity (mm)</b>			
	Duration	rainfall intensity(mm)	
	i) 15 minute duration		
	ii) 30 minute duration		
	iii) 60 minute duration		
<b>4 Temperatue (Degree C)</b>			
	Season	Max	Min
	i) Summer Season		
	ii) Winter Season		
	iii) Rainy Season		
<b>5 Potential Evaporation Transpiration (PET) (mm/day)</b>			
	Season	PET	
	i) Summer		
	ii) Winter		
	iii) Rainy		



6 Runoff				
	i) Peak Rate (cum/hr)			
	ii) Total run off volume of rainy season			
	iii) Time of return of maximum flood	5 years	10 years	In-Year
	iv) Periodicity of Drought in village area			
7	Sediment Production Rate (SPR) (ha-m/100sq km/year)			
8	<b>Slope of Watershed</b>			
S.No.	Slope percentage		Area in hectares	
1	0 to 3%			
2	3 to 8%			
3	8 to 25%			
4	> 25%			

9	<b>Erosion status in project Area</b>				
	Cause	Type of erosion	Area affected (ha)	Run off (mm/year)	Average soil loss (Tonnes/ ha/ year)
	Water erosion				
		a Sheet			
		b Rill			
		c Gully			
	Sub-Total				
	Wind erosion			NA	
	<b>Total for project</b>				

C. Soil Profile

S.No.	Major Soil Classes	Area in hectares
1		
2		
D.	Soil Depth :	
	Depth (Cms.)	Area in hectares
1	0.00 to 7.50	
2	7.50 to 45.00	
3	> 45.00	
E	Soil fertility Status	Kg/ha
	N	
	P	
	K	
	Micronutrients	PPM

Land use of project Area													
Gram Panchayat	Village	W/S	Geo. Area	Forest Area	Community Land	Pastures	Uncultivated Waste land	Agriculture land				Net Sown Area	Net Area sown more than once
								Temporary fallow	Permanent Fallow	Cultivated Rainfed	Cultivated irrigated		

### Land holding Pattern in project area

Type of Farmer	Land holding (ha) irrigation source wise			Land holding (ha) Social group wise				
	Irrigated (source)	Rainfed	Total	General	SC	ST	OBC	BPL
(i) Large farmer								
(ii) Small farmer								
(iii) Marginal farmer								
(iv) Landless person								
(V) No. of BPL households								

### Social group wise Details of agriculture land

Gen. Household	Area	SC Household	Area	ST Household	OBC Household	Total

### Ownership wise of Land Use in Watershed

Land Use	Total area in Ha.			
	Govt.	Pvt.	Community	Total
Agriculture Land				
Forest Land				
Waste Land				
Pastures				
Others				
Total				

### Cropping Status

1	2	3	4			5			6	
S.No.	Season	Crop sown	Rain fed			Irrigated			Total	
			Area(ha)	Production (Ton)	Productivity (kg/ha)	Area(ha)	Production (Ton)	Productivity (kg/ha)	Area(ha)	Production (Ton)
1	Kharif									
2	Rabi									
3	Zaid									
	Total									

Existing area under horticulture (ha)			Existing area under fuel-wood (ha)			Existing area under fodder (ha)		
Source/ Name of report	Year of reference	Area already under horticulture	Source/ Name of report	Year of reference	Area already under fuel-wood	Source/ Name of report	Year of reference	Area already under fodder

Abstract of cropped Area(ha)	
Area under Single crop	
Area under Double crop	
Area under Multiple crop	

### Water Resources

**Total available runoff(cum)**

**a)Details of already stored runoff(Surface Water structures)**

S.No.	Name	No.	Storage Capacity	Area irrigated
i)	Major Irrigation Project			
ii)	Medium Irrigation Project			
iii)	Form Ponds/Tanks			
iv)	Anicuts			
	Total			

**(b) Ground Water**

i)	Dug wells	No.	Functional depth	Dry	Area irrigated	Water availability( days)
ii)	Shallow tube wells					
iii)	Pumping sets					
iv)	Deep Tube Wells					
	Total					

### Availability of drinking water

Village	No. of days in a year	Source of drinking water	Quality

### Water Use efficiency

Name of major crop	Area (Hectare)			Total
	through water saving devices(Drip/Sprinklers)	through water conserving agronomic practices#	Any other (pl. specify)	

Cattle and Animal Population

S.No.	Description of animals	Population in No.	Yield
1	Cows		
	Indegeneous		
	Hybrid		
2	Buffaloes		
3	Goat & Sheep		
4	Camel		
5	Poultry		
6	Piggery		
	Total		

Availability of fodder(quintals)

Deficiency of fodder(quintals)

### **Socio-Economic Parameters**

#### 1 Household and Economic Activity

S.No.	Description of	Total No. of household	Population in No.				SC		ST		Total	
			M	F	Ch	Total	No. of h.h.	Members	No. of h.h.	Members	No. of h.h.	Members
1	2	3	4a	4b	4c	4d	5a	5b	6a	6b	7a	7b
(i)	cultivators											
(ii)	Dairying											
(iii)	Poultry											
(iv)	Piggery											
(v)	Landless Agri. Labourers											
(vi)	Artisans											
(vii)	BPL											
(viii)	Others(specify)											
	Total											

M= Male, F=Female, Ch=Children (below 14 years) h.h.=house hold

Indicate only households with main occupation in the case of more than one occupation in a household .

Indicate against the occupation with income more than 50%

#### **Existing SHG**

Name of SHG	Members	Activity involved	Monthly income	Fund available	Assistance available	Source of assistance	Training received

#### **Migration Details**

Name of village	No. of persons migrating	No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs. in lakh)

**Details of infrastructure in the project areas**

Parameters		Status			
(i)	No. of villages connected to the main road by an all-weather road				
(ii)	No. of villages provided with electricity				
(iii)	No. of households without access to drinking water				
(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P)	(S)	(HS)	(VI)
(v)	No. of villages with access to Primary Health Centre				
(vi)	No. of villages with access to Veterinary Dispensary				
(vii)	No. of villages with access to Post Office				
(viii)	No. of villages with access to Banks				
(ix)	No. of villages with access to Markets/ mandis				
(x)	No. of villages with access to Agro-industries				
(xi)	Total quantity of surplus milk				
(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U)	(S)	(PA)	(O)
(xiii)	No. of villages with access to Anganwadi Centre				
(xiv)	Any other facilities with no. of villages (please specify)				
(xv)	Nearest KVK				
(xvi)	cooperative society				
(xvii)	NGOs				
(xviii)	Credit institutions				
	(i) Bank				
	(ii) Cooperative Society				
(xix)	Agro Service Centre's				



जीविकोपार्जन प्लान बनाने हेतु एकत्रित की जाने वाली सूचनाओं का प्रारूप

गाँव का कोड		राजस्व ग्राम/ढाणी	
ग्राम पंचायत		पंचायत समिति	
परिवार का कोड		जोब कार्ड संख्या	
परिवार के मुखिया का नाम		पिता/पति का नाम	
वर्ग		बी.पी.एल. क्रमांक	
बैंक का नाम जिसमें खाता है		खाता संख्या	
कृषक श्रेणी		दस्तकार क्रेडिट कार्ड नम्बर	
मोबाइल/टेलीफोन नम्बर		पिनकोड	



2. कृषि संसाधन (क्रमांक दर्ज करें/आवश्यक पूर्ति करें)

भूमि सम्बन्धी जानकारी			चारे की उपलब्धता		कुएँ में पानी की जमीन से गहराई (फीट में)	खेती के उपकरण	
खसरा नम्बर	कुल भूमि (हैक्टेयर में)	भूमि का प्रकार					
		1 सिंचित	1 पर्याप्त			1 हल	
		2 असिंचित	2 अपर्याप्त			2 चडस	
		3 बंजर/पड़त	3 क्य करता है			3 मोटर	
						4 ईंजन	
						5 ट्रैक्टर	
						6 पाईप लाईन	
						7 स्प्रिंकलर	
						8 ड्रीप	
						9 सीड ड्रील	
						10 थ्रेसर	
						11 रोटोवेटर	
						12 पौध संरक्षण यन्त्र	

3. हस्तशिल्प सम्बन्धी जानकारी (आवश्यक पूर्ती करे)

हस्तशिल्प उत्पाद, जो बनता है या बना सकता है	वर्तमान में कच्चा माल कहाँ से लाता या खरीदता है	तैयार किये हुए उत्पादों को कहाँ बेचता है	मेले में कहाँ-कहाँ गये है
1	2	3	4



5. परिवार के सदस्यों का विवरण (मुखिया सहित) (क्रमांक दर्ज करें/आवश्यक पूर्ती करें)

क्र.सं.	नाम	पति/पिता का नाम	लिंग		मुखिया से सम्बन्ध	आयु	रोजगार		रोजगार से आय (रु. में)	शिक्षा		पेंशन सहायता से लाभान्वित		पेंशन/सहायता की आवश्यकता		एसजीएसवाई योजना से लाभान्वित	
			1	पुरुष			1	स्व-रोजगार		1	अशिक्षित	1	विकलांग	1	विकलांग	1	हाँ
			2	महिला			2	मजदूरी		2	साक्षर	2	वृद्धावस्था	2	वृद्धावस्था	2	नहीं
							3	सेवा क्षेत्र		3	प्राथमिक	3	विधवा	3	विधवा	3	आवश्यकता है
							4	बेरोजगार		4	उच्च प्राथमिक	4	पालनहार	4	पालनहार		
										5	माध्यमिक	5	छात्रवृत्ति	5	छात्रवृत्ति		
										6	कॉलेज						
1	2	3	4	5	6	7	8	9	10	11	12						



## 7. हस्तशिल्प कार्य सम्बन्धी जानकारी

कार्य			प्रशिक्षण की आवश्यकता				प्रशिक्षण क्या-क्या ले चुका है	एक्सपोजर विजिट चाहते है
मजदूरी	नौकरी	स्वरोजगार	सीखने की	डिजाइन की	पैकेजिंग की	मार्केटिंग की		
1	2	3	4	5	6	7	8	9

1. सर्वेयर का नाम व हस्ताक्षर एवं दिनांक

परिवार के मुखिया / वरिष्ठ सदस्य के हस्ताक्षर /  
अंगुठा निशानी