कार्यालय प्रधान मुख्य वन संरक्षक (कक्ष-भू प्रबंध) वन भवन, मध्यप्रदेश, भोपाल

सी-ब्लॉक, द्वितीय तल, लिंक रोड नं;-2, तुलसी नगर, भोपाल-462003

क्रमांक/एफ-3/129/0017/10-11/10 दिनांक: ई-साइन अनुसार

प्रति,

वन महानिरीक्षक, (एफ.सी.)
भारत सरकार, पर्यावरण वन एवं जलवायु मंत्रालय,
इंदिरा पर्यावरण भवन, अलीगंज,
जोरबाग रोड, नई दिल्ली-110003

विषयः- जिला बडवानी एवं जिला खरगोन अंतर्गत सोनखेडी तालाब योजना के निर्माण हेतु 49.320 हेक्टेयर (वनमंडल सेंधवा की 34.450 हे0 एवं वनमंडल खरगोन की 14.870 हे) वनभूमि जल संसाधन विभाग को उपयोग पर देने बाबत। (FP/MP/IRRIG/155614/2022)

संदर्भः- भारत सरकार, पर्यावरण वन एवं जलवायु मंत्रालय, नई दिल्ली का पत्र दिनांक 19/05/2024

--00--

विषयांकित प्रकरण में भारत सरकार द्वारा चाही गयी जानकारी का उत्तर आवेदक विभाग/ वनमण्डलाधिकारी से प्राप्त किया जाकर निम्नानुसार प्रस्तुत है।

क्रं	प्रकरण में ली गयी आपत्तियां	आपत्तियों का उत्तर
1	The component wise KML file of the proposed forest land for diversion along with the DGPS/Geo-referenced map showing the purpose wise utilization of forest land for diversion shall be uploaded on PARIVESH portal.	आवेदक विभाग द्वारा प्रस्तावित वनभूमि की KML file एवं जिया-रिफरेन्स मेप को घटकवार तैयार किया जाकर पोर्टल पर अपलोड किया गया है।
2	The complete KML file of the forest land as well as the Non-forest land involved in the project shall be submitted.	आवेदक विभाग द्वारा परियोजना अंतर्गत प्रभावित वनभूमि की KML file को भाग-1 में निर्धारित बिन्दु पर अपलोड की गयी है साथ ही प्रभावित गैर वनभूमि की KML file को भाग-1 के बिन्दु क्रमांक C में वनमण्डल सेंधवा की टेबल में 0 हेक्टेयर के रूप में अपलोड की गयी है।
3	The basic details of proposed Dam like its height, length, command area, technical approval, hydrological assessment etc. shall be submitted.	आवेदक विभाग द्वारा बांध निर्माण से संबंधित Salient features, तकनीकी अनुमोदन, जल विज्ञान संबंधी मूल्यांकन पत्रक प्रस्तुत किये है, जो परिशिष्ट-1 पर संलग्न है।
4	The copy of approved Catchment Area Treatment (CAT) Plan as per Para 9.2 & 9.3 of the consolidated guidelines and clarifications issued under Van (Sanrakshan Evam Samvardhan), Adhiniyam, 1980 shall be submitted.	आवेदक विभाग द्वारा प्रस्तुत CAT Plan की प्रति परिशिष्ट-2 पर संलग्न है।
5	A copy of approved R&R plan for the 22 number of families dependent on the proposed forest land which are going to affected due to instant project shall be submitted.	इस संबंध में आवेदक विभाग द्वारा लेख किया गया है, कि वनभूमि पर प्रस्तावित परियोजना के निर्माण से 22 परिवार प्रभावित होंगें। विषयांकित परियोजना मध्यप्रदेश जल संसाधन विभाग की एक लघु सिंचाई परियोजना है, म0प्र0 जल संसाधन विभाग की लघु सिंचाई परियोजना में पुनर्वास एवं पुर्नस्थापन का कोई प्रावधान नहीं है। बांध निर्माण में प्रभावित परिवारों को 'भूमि अधिग्रहण, पुर्नवास और पुर्नस्थापन में उचित मुआवजा और पारदर्शिता का अधिकार अधिनियम, 2013' के अनुसार प्रभावित भूमि और मकान के लिए मुआवजा दिया जाएगा। आवेदक विभाग का प्रमाण-पत्र परिशिष्ट-3 पर संलग्न है।
6	The Cost Benefit analysis has been	आवेदक विभाग द्वारा संशोधित Cost Benefit analysis

	calculated keeping in view the NPV rates for open forest instead of dense forest rates. Moreover, habitation fragmentation cost has not been included. The revised CB analysis has to be submitted on the prescribed format and by keeping all parameters in view.	पत्रक पोर्टल पर निर्धारित बिन्दु पर अपलोड किया गया है सुलभ संदर्भ हेतु छायाप्रति परिशिष्ट-4 पर संलग्न है।
7	The State Govt. has identified degraded forest land for plantation work in order to accommodate the balance saplings which can not be planted over proposed non forest land for CA. In this regard, However the State Govt. has not submitted the specific details such as area bearing vegetation of 0.4 canopy density or more in this regard. The State shall ensure that the area proposed for compensatory afforestation must be suitable for raising plantation. In case the area proposed already has a density of 0.4 or above, a programme for improvement of the forest crop shall be submitted.	प्रकरण में क्षतिपूर्ति वनीकरण हेतु उपलब्ध करायी गयी ग्राम फत्यापुर, सर्वे नं 164 रकबा 49.320 हे0 गैर वनभूमि में पूर्व से 24320 पौधे होने के कारण शेष बचे 25000 पौधे रोपण की योजना वनमंडल सेंधवा के परिक्षेत्र वारला की अवक्रमित वनभूमि कक्ष क्रमांक 404 में तैयार कर प्रस्तुत की गयी है। कार्य आयोजना के अनुसार इसका वनस्पति घनत्व 1.0 है त था यह क्षेत्र BL2 श्रेणी में आता है। इस संबंध में वनमण्डलाधिकारी, सेंधवा द्वारा प्रस्तुत प्रमाण-पत्र परिशिष्ट-5 पर संलग्न है।
8	The details of distribution network like canals and pipelines, which may further have required diversion of forest land etc. has not been given. A holistic proposal is required to be submitted as forest land may be required for laying of underground pipelines as well. The State Govt. shall there fore provide the complete lay out plan indicating all the components like canal, pipelines etc. The detail of the area requirement for these components shall also be submitted keeping in view Para 9.1 of Chapter-9 of the consolidated guidelines and clarifications issued under Van (Sanrakshan Evam Samvardhan), Adhiniyam, 1980.	आवेदक विभाग द्वारा प्रस्तुत मानचित्र परिशिष्ट-6 पर संलग्न है।
9	The State shall submit the status of Cumulative Impact Study and the Carrying Capacity Study as stipulated inthe Para 9.3(i) and 9.3(ii) of the Chapter-9 of the consolidated guidelines and clarifications dated 29.12.2023 issued under Van (Sanrakshan Evam Samvardhan), Adhiniyam, 1980.	इस संबंध में आवेदक विभाग द्वारा प्रमाण-पत्र प्रस्तुत कर लेख किया है, कि अध्याय 9 सिंचाई और जलविघुत परियोजना के अनुसार पैरा 9.3 (ii) में केवल बहुउददेशीय/ जलविघुत परियोजना के लिए लागू है। विषयांकित परियोजना जल संसाधन विभाग की एक लघु सिंचाई परियोजना है, जिसे स्थानीय नदी पर बनाया जाना प्रस्तावित है, जिसका उदेश्य एकल सिंचाई परियोजना है। इसलिए योजना के लिए संचयी प्रभाव अध्ययन और वहन क्षमता अध्ययन की आवश्यकता नहीं है। सुलभ संदर्भ हेतु आवेदक विभाग द्वारा प्रस्तुत प्रमाण-पत्र परिशिष्ट-7 पर संलग्न है।
10	The details about the command area, irrigation potential, present cropping pattern, total population of the villages to be benefited and the likely impact of the project on cropping pattern in future is essential for evaluating the socio-economic benefits of the project. The State shall submit a detailed report on these	आवेदक विभाग द्वारा सोनखेडी तालाब के जल उपलब्धता एवं प्रदाय क्षमता अनुसार फसल चक्र के अनुमोदन से संबंधित उपसंचालक, किसान कल्याण तथा कृषि विकास, जिला बडवानी का पत्र दिनांक 12/12/2017 संलग्न किया है, जिसकी प्रति परिशिष्ट-8 पर संलग्न है।

	aspects.	
11	The State Govt. has not submitted the copy of revenue documents indicating that the area proposed for CA is Non-forest land and free from all encumbrances.	उप वन मण्डलाधिकारी, बडवानी का द्वारा क्षतिपूर्मि वनीकरण हेतु प्राप्त राजस्व भूमि के उपयुक्तता प्रमाण-पत्र एवं अनुविभागीय अधिकारी, राजस्व राजपुर, जिला बडवानी का किसी भी व्यक्तिगत/ सामुदायिक कब्जा न होने एवं अतिक्रमण मुक्त होने बाबत प्रमाण-पत्र परिशिष्ट-9 पर संलग्न है।

अत: उपरोक्तानुसार अनुरोध है, कि प्रकरण में भारत सरकार की सैद्धांतिक स्वीकृति प्राप्त कर अवगत कराने का कष्ट करें।

संलग्न:-उपरोक्तानुसार।

Signed by Hari Shankar Mohanta
Date: 22-11-2024 17:00:13

(एच.एस.मोहन्ता)
अपर प्रधान मुख्य वन संरक्षक (भू-प्रबंध)
मध्यप्रदेश, भोपाल

पृ. क्रमांक/एफ-3/129/0017/10-11/10 भोपाल, दिनांक

प्रतिलिपि:-

1. मुख्य वन संरक्षक, (क्षेत्रीय) खण्डवा वृत्त खण्डवा, मध्यप्रदेश
2. वनमण्डलाधिकारी, (सा0) वनमण्डल खरगोन/सेंधवा/बडवानी, म०प्र०।
3. कार्यपालन यंत्री, जल संसाधन संभाग बडवानी, जिला बडवानी, म०प्र०।

की ओर सूचनार्थ अग्रेषित।

परिशिष्ट -1

15

SONKHEDI TANK PROJECT
SALIENT FEATURES

I	**GENERAL DATA**		
1	Name of the Project	:	Sonkhedi Tank Project
2	District	:	Barwani
3	Block	:	Sendhwa
4	Tehsil	:	Varla
5	River or Nalla	:	Local Nala
6	Location of Dam Site		
	a) village	:	Near Village Sonkhedi
	b) Toposhit No	:	46O/7
	c) Latitude of Dam	:	21°24'12.727"N
	d) Longitude of Dam	:	75°29'13.784"E
II	**HYDROLOGICAL DATA**		
1	**Catchment area**		
	a) Gross area	:	25.03 Sq.Km
	c) Unintercepted Area	:	25.03 Sq.Km
	d) Topography	:	Hilly
	e) Wooded/Partially wooded	:	Partially wooded
2	**Rainfall**		
	a) Average Annual Rainfall	:	825.56 mm
	b) 75% Dependable Annual Rainfall	:	**659.50 mm**
3	**Yield**		
	Average Annual Yield	:	4.74 MCM
	75% Dependable Annual Yield Yield		
	a)Gross Yield	:	**3.41 MCM**
	c) Net water available for Irrigation	:	**3.41 MCM**
III	**FLOOD**		
1	Maximum observed	:	Not Observed
2	Maximum discharge	:	257.38 Cumec
IV	**RESERVOIR DATA**		
1	Gross Storage Capacity	:	3.41 MCM
2	Dead Storage Capacity	:	0.45 MCM
3	Live Storage Capacity	:	2.96 MCM
4	Minimum Draw Down Level Capacity (MDDL)	:	0.55 MCM
5	Lowest Nalla Bed Level (NBL)	:	382.84 m
6	Lowest Sill Level (LSL)	:	395.10 m
7	Minimum Draw Down Level (MDDL)	:	395.85 m
8	Full Resrevoir Level (FRL)	:	405.30 m
9	Maximum Water Level (MWL)	:	407.30 m
10	Top Bund Level (TBL)	:	409.30 m
11	Water Spread Area at (FRL)	:	47.55 Ha
V	**DAM**		
1	Type of Dam	:	Earthen Dam
2	Length of Dam		4005.96 m
3	Maximum Height of Dam		26.46 m
4	Top Width of Dam	:	6.00 m

5	Surplusing Arrangement		
	(a) Type of waste weir/ spillway	:	Flush Bar
	(b) Length of waste weir	:	67.00 m
	(c) Maximum discharge of waste weir	:	257.38 cumecs
VI	**CANAL**		
1	Length of Main Canal	:	6.800 km
2	Length of Minor 1 Canal	:	0.654 km
3	Length of Minor 2 Canal		0.813 km 2.12 KM
4	Length of Minor 3 Canal		0.655 km
6	Designed Head discharge :-		0.8530 cumecs
7	Delta (GIR)		
	(A) Kharif (a) Cotton(1KH)	:	NIL
	Total	:	**NIL**
	(B) Rabi (a) Wheat (Hy.)	:	500.00 mm
	(b) Wheat (Ord.)	:	450.00 mm
	(c) Gram	:	150.00 mm
	Total	:	1100.00
8	Area Commanded (Agricultural Statistcs)		
	(h) Designed Irrigation (Total ICA)	:	533 Ha
	(a) Kharif		NIL
	Total	:	**NIL**
	(b) Rabi		
	(a) Wheat 2MV	:	125 Ha
	(b) Wheat 0LYV	:	262 Ha
	(c) Gram S2 RA	:	146 Ha
	Total	:	**533 Ha**
i	Intensity of Irrigation		
	Kharif	:	NIL
	Rabi	:	100 %
	Total	:	**100 %**
VII	**SUBMERGENCE**		
i	Total Area at FRL	:	47.55 Ha
ii	Cultivated Area	:	NIL
iii	Pvt. Land	:	NIL
iii	Government Land	:	Nil
iv	Forest Area (Reserve)	:	47.55 Ha

Sub Engineer

Sub Divisional Officer
Water Resources Sub Division
Sendhwa

Executive Engineer
Water Resources Division
Barwani

OFFICE OF THE SUPERINTENDING ENGINEER
WATER RESOURCES CIRCLE KHARGONE

Order No. ..151../W/2017-18 Khargone, Dated 20.1.18

OFFICE-ORDER

In Exercise of powers delegated to me vide Govt. of M.P. Book of financial powers 1995, Part-II, S.No. 70, **Technical Sanction** is hereby accorded for construction of Unit-I Head work of **Sonkhedi Tank Project** Tehsil Varla Distt. Barwani an amounting to Rs. 1037.20 Lakhs (Rs. Ten Crores, Thirty Seven Lakhs, Twenty Thousand only)as per enclosed abstract.

The expenditure will be chargeable under the head of 41/4702 capital outlay on minor Irrigation Scheme of **Sonkhedi Tank Project.**

The technical sanction is subject to following condition:

1. Expenditure should not exceed the amount of technical sanction and allotment.
2. Any addition, alteration or modification is required during execution, prior approval in writing should be obtained from competent authority.
3. Expenditure should not be done till receiving administrative approval.

Encl. General Abstract.

20/1/18
Superintending Engineer
Water Resources Circle
Khargone

Endt. No. ...../W/2017-18 Khargone, Dated

Copy is forwarded to the :-

1. Chief Engineer, Narmada Tapti Basin W.R Deptt. Indore for information.
2. Accountant General, M.P. Bhopal, for information.
3. General Section of this office, for information & necessary action.
4- Executive Engineer, W.R. Division, Barwani for information and Necessary action.

Sd/-
Superintending Engineer
Water Resources Circle
Khargone

AT

Sonkhedi Tank Project

Teh. varla Distt. Barwani

GENERAL ABSTRACT

1. S.E.R. No. : 94 /2017-18
2. Name of work : construction of Unit-I Head work of **Sonkhedi Tank Project**
3. Major Head : 41/4702
4. Minor Head : Unit-I Head work

S.No.	Particular	Rates	Amount (Rs. in Lakhs)
	construction of Unit-I Head work of **Sonkhedi Tank Project**	U.S.R inforced from 01.09.2017	
	C-Masonry		305.36
	L-Earth Work		620.71
		Total :-	**926.07**
	Add 12% GST		**111.13**
			1037.20

Scrutinized by
Draughtsman
W.R.. Circle, Khargone

Checked by
Assistant Engineer(D).
W.R. Circle,Khargone

Recommended by
Executive Engineer,(D)
Water Resources Circle,
Khargone

Technical Sanctioned for Rs. 1037.20 Lakhs

Rs. Ten Crores, Thirty Seven Lakhs, Twenty Thousand only)

Superintending Engineer
Water Resources Circle
Khargone (M.P)

OFFICE OF THE EXECUTIVE ENGINEER
WATER RESOURCE DIVISION BARWANI

Memo No...../ TS / 2017-18 Barwani, Date...../...../ 2018

In exercise of powers delegated by Govt of M.P. Finance Deptt. book of Financial powers 1995 Part-II Serial No. 74 vide order No G/17/1/95/C/ IV/Dated 05.10.95. Technical Sanction is hereby accorded to the estimate of Unit-II Canal of Sonkhedi Tank Project Tehsil Varla, Distt Barwani amounting to Rs. 174.05 Lakhs (Rs. One Crore Seventy four Lakhs Five Thousand Only) as per General Abstract enclosed with following conditions.

Sr. No.	Sub Head	Cost (Rs. In Lakhs)
	Unit-II Canal	
1	C- Masonry	Rs. 117.21 Lakh
2	L- Earth work	Rs. 38.19 Lakh
	Total :	**Rs. 155.40 Lakhs**
	Add 12% GST	Rs. 18.65 Lakhs
	Grand Total :-	**Rs. 174.05 Lakhs**

(Rs. One Crore Seventy four Lakhs Five Thousand only)

1- In case any addition, alterations or modification is required during execution, prior approval in writing should be obtained from the competent authority.

2- Expenditure should be restricted to the minimum requirement as per the site condition, and it should not exceed from the amount of technical sanction and allotment.

3- Expenditure should be debited to head of Account 41/4702 Tribal Sub- Plan.

4- Material found from excavation should be used on work to the maximum extent, if found suitable.

Encl. :- One General Abstracts.

sd/

Executive Engineer
Water Resources Division, Barwani
Distt. Barwani (M.P.)

Endt. No....303.../ TS / Sonkhedi / 2018 Barwani, Date.18/1...../2018

Copy is Forwarded to the :-

(1) Chief Engineer, Narmada Tapti Basin, Water Resources Deptt. Indore for information
(2) Superintding Engineer, Water Resources Circle, Khargone for Information
(3) Accountant General, M.P. Bhopal for information
(4) Sub Divisional Officer, Water Resources Sub Division, Sendhwa for Information and necessary action
(5) General Section of this Office, for information and necessary action

Encl :- One General Abstract.

18/01/18

Executive Engineer
Water Resources Division, Barwani
Distt. Barwani (M.P.)

OFFICE OF THE EXECUTIVE ENGINEER
WATER RESOURCE DIVISION BARWANI

GENERAL ABSTACT

1. S.E.R. No. :- .....07...../2017-18

2. Name of work :- Construction of Sonkhedi Tank Project

3. Feasibility :- Govt. of M.P. Water Resources Deptt., Bhopal No. F-22/1/2016-17/लसि /31/1376/Bhopal, Dated 17.11.2016 For Rs. 2030.00 Lakhs

4. Major Head :- 41 / 4702

5. Minor Head :- Unit-II Canal

S.No.	Name of Sub Head	Rate	Amount (Rs. In Lakhs)
1	Unit-II Canal	U.S.R. enforced from 01.09.2017	174.05
	Total :-		**174.05**

Scrutinised by

Draughtsman
Water Resources Division
Barwani (MP)

Checked & Recommended

Assistant Engineer (D)
Water Resources Division
Barwani (MP)

Technical Sanction Accorded for Rs. 174.05 Lakhs
(Rupees One Crore Seventy four Lakhs Five Thousand Only)

16/01/18

Executive Engineer
Water Resources Division, Barwani
Distt. Barwani (M.P.)

(10)

SONKHEDI TANK PROJECT

Annual rainfall data series of Sendhwa in descending order with dependibility

Raingauge Station : Sendhwa

Rainfall Series			Descending order			% Dependability (m)/n+1*100
Sr.No	Year	Rainfall (mm)	Year	Rainfall (mm)	Rank	
1	1974	1290.00	2006	1304.00	1	2.38
2	1975	610.00	1974	1290.00	2	4.76
3	1976	469.00	2010	1243.00	3	7.14
4	1977	885.00	1990	1175.00	4	9.52
5	1978	641.00	1988	1139.00	5	11.90
6	1979	792.00	1999	1133.00	6	14.29
7	1980	824.00	1991	1104.00	7	16.67
8	1981	709.00	2013-14	1095.00	8	19.05
9	1982	1015.00	2003	1052.00	9	21.43
10	1983	527.00	2004	1019.00	10	23.81
11	1984	717.00	1982	1015.00	11	26.19
12	1985	689.00	1994	993.00	12	28.57
13	1986	707.00	1989	945.00	13	30.95
14	1987	519.00	1977	885.00	14	33.33
15	1988	1139.00	1997	866.00	15	35.71
16	1989	945.00	1995	846.00	16	38.10
17	1990	1175.00	2014-15	836.00	17	40.48
18	1991	1104.00	1980	824.00	18	42.86
19	1992	446.00	1979	792.00	19	45.24
20	1993	789.00	1993	789.00	20	47.62
21	1994	993.00	1996	770.00	21	50.00
22	1995	846.00	2011-12	765.00	22	52.38
23	1996	770.00	2009	734.00	23	54.76
24	1997	866 00	1984	717.00	24	57.14
25	1998	620.00	2001	713.00	25	59.52
26	1999	1133.00	2002	712.00	26	61.90
27	2000	678.00	1981	709.00	27	64.29
28	2001	713.00	1986	707.00	28	66.67
29	2002	712.00	2012-13	698.00	29	69.05
30	2003	1052.00	1985	689.00	30	71.43
31	2004	1019.00	2000	678.00	31	73.81
				659.50		**75.00**
32	2005	593.00	1978	641.00	32	76.19
33	2006	1304.00	2007	627.00	33	78.57
34	2007	627.00	1998	620.00	34	80.95
35	2008	559.00	1975	610.00	35	83.33
36	2009	734.00	2005	593.00	36	85.71

Rainfall Series			Descending order			% Dependability (m)/n+1*100
Sr.No	Year	Rainfall (mm)	Year	Rainfall (mm)	Rank	
37	2010	1243.00	2008	559.00	37	88.10
38	2011-12	765.00	1983	527.00	38	90.48
39	2012-13	698.00	1987	519.00	39	92.86
40	2013-14	1095.00	1976	469.00	40	95.24
41	2014-15	836.00	1992	446.00	41	97.62

Sub Engineer

Sub Divisional Officer
Water Resources Sub Division
Sendhwa

Executive Engineer
Water Resources Division
Barwani

SONKHEDI TANK PROJECT

Dependable Rainfall and Water Yield

Sr.No	Rainfall Percentage	Rainfall (mm)	By Binnies'Yield per sq km of CA	Yield as per CA (MCM)	Diminishing Facctor	Yield as per CA (MCM)	
				By Binnie		(By R-R)	By Binnie After Diminishing
1	Annual Maximum Rainfall	1304.00	0.590	14.76	0.900	15.49	13.28
2	Annual Minimum Rainfall	446.00	0.065	1.63	0.900	3.54	1.46
3	Average Rainfall	825.56	0.244	6.10	0.900	6.10	5.49
4	**75% Dependable Rainfall**	**659.50**	**0.151**	3.79	**0.900**	**3.79**	**3.41**
5	60% Dependable Rainfall	712.80	0.179	4.47	0.900	7.26	4.02
6	50% Dependable Rainfall	770.00	0.210	5.27	0.900	8.05	4.74

Net water available for Net CA at 75% dependable yield : **3.412 MCM**

Sub Engineer

Sub Divisional Officer
Water Resources Sub Division
Sendhwa

Executive Engineer
Water Resources Division
Barwani

FIXATION OF STORAGE CAPACITY AND PRINCIPAL LEVELS

Name of the Scheme : SONKHEDI TANK PROJECT

S.No.	Particulars	Unit	Value
1	Total Catchment Area	sq km	25.03
2	Net Catchment Area	sq km	25.03
2	75% dependable Yield for total Catchment Area	MCM	3.79
3	Diminishing Factor		0.90
4	75% dependable Yield available at site	MCM	3.41
5	Silt Reserve		
a	NBL	RL in m	382.84
b	Silt factor 0.375 Th cum/year/sqkm for 50 years < 5 MCM of Tank Capacity	MCM	0.45
c	LSL	RL in m	395.10
d	Capacity at LSL	MCM	0.45
6	Live Storage (above LSL)	MCM	2.96
7	Full Reservoir Level	RL in m	405.30
8	Gross storage (Live Storage + LSL)	MCM	3.41
9	Head over Crest / Flood Lift	m	2.00
10	Maximum Water Level (FRL + Flood Lift)	RL in m	407.30
11	Providing free board	m	2.00
12	Top Bund Level (MWL + Free Board)	RL in m	409.30

Sub Engineer

Sub Divisional Officer
Water Resources Sub Division
Sendhwa

Executive Engineer
Water Resources Division
Barwani

SONKHEDI TANK PROJECT

AREA CAPACITY TABLE

Sr. No	Contour R.L. (m)	Contour Interval (h) (m)	Contour Area (sq m)	Contour Area (sq km)	Sum Area (A1+A2) (sq km)	Root area $(A1*A2)^{0.5}$	Capacity (MCM)	Cumulative Capacity (MCM)	
1	382.84	0.00	0.00	0.0000	0.000	0.000	0.000	0.000	
2	383.00	0.16	119.41	0.0001	0.000	0.000	0.000	0.000	
3	384.00	1.00	2127.03	0.0021	0.002	0.001	0.001	0.001	
4	385.00	1.00	6234.36	0.0062	0.008	0.004	0.004	0.005	
5	386.00	1.00	10899.00	0.0109	0.017	0.008	0.008	0.013	
6	387.00	1.00	15062.90	0.0151	0.026	0.013	0.013	0.026	
7	388.00	1.00	19741.20	0.0197	0.035	0.017	0.017	0.044	
8	389.00	1.00	27789.60	0.0278	0.048	0.023	0.024	0.067	
9	390.00	1.00	35507.30	0.0355	0.063	0.031	0.032	0.099	
10	391.00	1.00	43465.70	0.0435	0.079	0.039	0.039	0.138	
11	392.00	1.00	58134.00	0.0581	0.102	0.050	0.051	0.189	
12	393.00	1.00	74126.70	0.0741	0.132	0.066	0.066	0.255	
13	394.00	1.00	93826.60	0.0938	0.168	0.083	0.084	0.339	
14	395.00	1.00	112354.00	0.1124	0.206	0.103	0.103	0.442	
15	395.10		113719.26	0.1137				0.448	LSL

Sr. No	Contour R.L. (m)	Contour Interval (h) (m)	Contour Area (sq m)	Contour Area (sq km)	Sum Area (A1+A2) (sq km)	Root area $(A1*A2)^{0.5}$	Capacity (MCM)	Cumulative Capacity (MCM)	
15	396.00	1.00	139235.00	0.1392	0.252	0.125	0.126	0.567	
16	397.00	1.00	167554.00	0.1676	0.307	0.153	0.153	0.720	
17	398.00	1.00	199651.00	0.1997	0.367	0.183	0.183	0.904	
18	399.00	1.00	242216.00	0.2422	0.442	0.220	0.221	1.124	
19	400.00	1.00	278202.00	0.2782	0.520	0.260	0.260	1.384	
20	401.00	1.00	313583.00	0.3136	0.592	0.295	0.296	1.680	
21	402.00	1.00	352634.00	0.3526	0.666	0.333	0.333	2.013	
22	403.00	1.00	392918.00	0.3929	0.746	0.372	0.373	2.386	
23	404.00	1.00	430174.00	0.4302	0.823	0.411	0.411	2.797	
24	405.00	1.00	464942.00	0.4649	0.895	0.447	0.447	3.244	
25	405.30		475425.5	0.4754				3.408	FRL
25	406.00	1.00	499887.00	0.4999	0.965	0.482	0.482	3.727	
26	407.00	1.00	534700.00	0.5347	1.035	0.517	0.517	4.244	
26	407.30		544753.09	0.5448				4.406	
27	408.00	1.00	568210.30	0.5682	1.103	0.551	0.551	4.795	
28	409.00	1.00	601472.40	0.6015	1.170	0.585	0.585	5.380	
29	409.30		611559.31	0.6116				5.562	TBL
29	410.00	1.00	635289.80	0.6353	1.237	0.618	0.618	5.998	

Sub Engineer

Sub Divisional Officer
Water Resources Sub Division
Sendhwa

Executive Engineer
Water Resources Division
Barwani

परिशिष्ट-2

SONKHEDI MINOR TANK PROJECT

Teh. Varla **Dist. Barwani**

CATCHMENT AREA TREATMENT PLAN FOR FOREST AREA

13.1 NEED FOR CATCHEMENT AREA TREATMENT

It is a well-established fact that reservoirs formed by dams on rivers area subjected to sedimentation. The process of sedimentation embodies the sequential processes of erosion. Entrainment, transportation, deposition and compaction of sediment. The study of erosion and sediment yield from catchments is of utmost importance as the deposition of sediment in reservoir reduces its capacity, and thus affecting the water availability for the designated use. The eroded sediment from catchment when deposited on streambeds and banks causes braiding of river reach. The removal of top fertile soil from catchment adversely affects the grow plants thus, a well - designed catchment area treatment (CAT) Plan is essential to ameliorate the above mentioned adverse process of soil erosion.

Soil erosion may be defined as the detachment and transportation of soil. Water is the major agent responsible for this erosion in many locations, winds, glaciers, etc. also cause soil erosion. In a hilly catchment area as in the present case erosion due to water is a common phenomenon and the same has been studied as a part of the catchment area treatment (CAT) plan.

The catchment area treatment (CAT) plan highlights the management techniques to control erosion in the catchment area life span of a reservoir in case of a seasonal storage dams is greatly reduced due to erosion in the catchment area. The catchment area considered for treatment of SONKHEDI Minor Irrigation project is 25.03 Sq.km. The sub watersheds in the catchment area of considered for the present
study is given in Figure -A

In the present study Silt Yield Index' (SYI) method has been used. In this method, the terrain is subdivided into various watersheds and the credibility is determined on relative basis. SYI provides a comparative credibility criteria of catchment (low, moderate, high, etc.) and do not provide the absolute silt yield. SYI method is widely used mainly because of the fact that it is easy to use and has lesser data requirement Moreover, it can be applied to larger areas like sub watersheds, etc.

13.2 APPROACHES FOR THE STUDY

Various thematic maps have been used in preparation of the CAT plan. Due to the spatial variability of site parameters such as soils, topography land use and rainfall, not all areas contribute equally to the erosion problem. Several techniques like manual overlay of spatially index-mapped data have been used to estimate soil Erosion in complex landscape.

Geographic information System (GIS) is a computerized resource data base system, which is referenced some geographic coordinate system. In the present study real coordinate system has been used. The GIS is a tool to store, analyse and display various spatial date. In addition, GIS because of its special hardware and software characteristics. Has a capacity to perform numerous function and operations on the various spatial data layers residing in the database. GIS provides the capability to analyse large amounts of data in relation to a set of established criteria. In order to ensure that latest and accurate data is used for the analysis, satellite data has been used for deriving land use data and ground truth studies too have been conducted.
The various steps covered in the study are as follows:

- Data acquisition
- Data preparation
- Output presentation

The above mentioned steps are briefly described in the following paragraphs,

13.2.1 DATA ACQUISTION

The requirement of the study was first defined and the outputs expected were noted. The various data layers of the catchment area used for the study are as follows:

- Slope Map
- Soil Map
- Land use Classification Map
- Current Management Practices
- Catchment Area Map.

13.2.2 DATA PREPARATION

The data available from various sources was collected. The ground maps, contour information etc. were scanned, digitized and registered as per the requirement. Data was prepared depending on the level of. accuracy required and any corrections required were made. All the layers were geo-referenced brought to a common scale (real coordinates) so that overlay could be performed. A computer programmed was used to estimate the soil loss. The formats of outputs from each layer were firmed up to match the formats of inputs in the program. The gird size to be used was also decided to match the level of accuracy required the data availability and the software and time limitations. The format of output was finalized. Ground trothing and data collection was also included in the procedure.
For the present study IRS IC-LISS III digital satellite data was used for interpretation & classification the classified land use map of the catchment area of various dams considered for the study are shown in Figure-B. The land use pattern of the catchment area is summarized in Table-13.1.

TABLE- 13.1:- LAND USE PATTERN OF THE CATCHMENT AREA

Category	Area (ha)	Area (%)
Vegetation	349	13.94
Scrubs/ Grass Land	262	10.45
Agricultural Land	942	37.63
Barren Land	880	35.19
River	44	1.74
Settlements	26	1.05
Total	**2503**	**100.00**

Digitized contours from toposheets were used for preparation of Digital Elevation Model (DEM) of the catchment area and to prepare a slope map. The first step in generation of slope map is to create surface using the elevation values stored in the form of contours or points. After marking the catchment area, all the contours on the toposheets were digitized (100 m interval). The output of the digitization procedure was the contours as well as points contours in form of x, y & z points (x,y location and their elevation) All this information was in real world coordinates (latitude, longitude and height in meters above sea level.)

A Digital Terrain Model (DTM) of the area was then prepared, which was used to derive a slope map.

Various layers thus prepared were used for modelling Software was prepared to calculate the soil loss using input from all the layers

13.2.3 OUTPUT PRESENTATION

The result of the modelling was interpreted in pictorial form to identify the areas with high soil erosion rates. The primary and secondary data collected as a part of the field studies were used as an input for the model.

13.3 ESTIMATION OF SOIL LOSS USING SILT YIELD INDEX (SYI) METHOD.

The Silt Yield Index Model (SYI), considering sedimentation as product of erosivity, credibility and arial extent was conceptualized in the All India Soil and Land Use Survey (AISLUS) as early as 1969 and has been in operational use since then to meet the requirement of prioritization of smaller hydrologic units.

The erosivity determinants are the climatic have direct or reciprocal bearing on the relationship can be expressed as factors and soil and land attributes that unit of the detached soil material. The relationship can be expressed as :

Soil erosivity = 1(Climate, physiographic, Slope, soil parameters, land use / land cover, soil management)

The Silt Yield Index (SYI) is defined as the Yield per unit area and SYI value for hydrologic unit is obtained by taking the weighted arithmetic mean over the entire area of the hydrologic unit by using suitable empirical equation.

Prioritization of Watersheds / Sub water heads:

The prioritization of smaller hydrologic units within the vast catchments are based on the Silt Yiled Indices (SYI) of the smaller units, the boundary values or range of SYI values for different priority categories are arrived at by studying the frequency distribution of SYI values and locating the suitable breaking points. The watersheds/ Sub-watersheds are subsequently rated into various categories corresponding to their respective SYI values.

The application of SYI model of prioritization of sub watersheds in the catchment areas involves the evaluation of :

a) Climatic factors comprising total precipitation, its frequency and intensity.
b) Geomorphic, factors comprising land forms, physiography, slope and drainage characteristics.
c) Surface cover factors governing the flow hydraulics and
d) Management factors.

The data on climatic factors can be obtained for different locations in the catchment area from the meteorological stations whereas the filed investigations area required for estimating the other attributes.

The various steps involved in the application of model are :

- Preparation of a framework of sub-watershed through systematic delineation.
- Rapid reconnaissance surveys on 1:50,000 scale leading to the generation of a map indicating erosion - intensity mapping units'
- Assignment of weight age value of various mapping units based on relative silt yield potential.
- Computing Silt Yield Index for individual watersheds / Sub watersheds.
- Grading of watersheds/ sub watersheds into very high, high medium. low and very low priority categories.

The area of each of the mapping units is computed and silt yield indices of individual sub watersheds area calculated using the following equations.

a Silt Yield Index

$$SYI = \frac{\sum(Ai \times Wi) \times 100 \text{ where } i=L \text{ to } n}{Aw}$$

Ai = Area of ith unit (EIMU)
Wi = Weightage Value of ith mapping unit
n = No. of mapping units
Aw = Total area of sub watershed.

The SYI values for classification of various categories of erosion intensity rates are given in.

TABLE - 13.2 CRITERIA FOR EROSION INTENSITY RATE

Priority Categories	SYI Values
Very high	>1300
High	1200-1299
Medium	1100-1199
Low	1000-1099
Very Low	<1000

13.4 WATERSHED MANAGEMENT - AVAILABLE TECHNIQUES

Watershed management is the optimal use of soil and water resources within a given geographical area so as to enable sustainable production. It implies changes in land use, vegetative cover, and other structural and non-structural action that are taken in a watershed to achieve specific watershed management objectives. The overall objectives of watershed management programme are to:

- increase infiltration into soil
- Control excessive runoff;
- Manage & utilize runoff for useful purpose

Following Engineering and Biological measures have been suggested for the catchment area treatment .

1. Engineering measures

- Nallaha Bunding
- Contour Bunding
- Angle iron barbed wire fencing

2. Biological measures

- Development of nurseries
- Plantation / afforestation
- Pasture development
- Social forestry

The basis of site selection for different biological and engineering treatment measures under CAT are given in Table-13.3.

TABLE - 13.3: BASIS FOR SELECTION OF CATCHMENT AREA TREATMENT MEASURES

Treatment measure	Basis for selection
Social forestry, fuel wood and fodder grass development	Near settlements to control tree felling
Contour Bunding	Control of soil erosion from agricultural fields.
Pasture Development	Open canopy, barren land, degraded surface
Afforestation	Open canopy, degraded surface, high soil erosion, gentle to moderate slope
Barbed wire fencing	In the vicinity of afforestation work to protect is from grazing etc.
Nallah Bunding	Nalla bunding work consists of constructing bunds of suitable dimensions across the nalla or gullies to hold the maximum runoff water to create flooding of the upstream area temporarily for some days or weeks, with Surplussing arrangements at suitable intervals to drain the water.
Nursery	Centrally located points for better supervision of proposed afforestation, minimize cost of transportation of seedling and ensure better survival.

13.5 CATCHMENT AREA TREATMENT METASURES

The erosion category of sub-watersheds in the catchment area as per a SYI index is given in Table-13.4. The details are shown in Figure-C. The area under different erosion categories is given in Table-13.5.

TABLE-13.4: EROSION INTENSITY CATEGORIZATION AS PER SYI CLASSIFICATION

SWS	Area (ha)	SYI	Erosion Category
W1	133	1230	High
W2	131	1150	Medium
W3	132	1160	Medium
W4	140	1180	Medium
W5	110	1150	Medium
W6	121	1210	High
W7	132	1190	Medium
W8	125	1180	Medium

SWS	Area (ha)	SYI	Erosion Categorv
W9	144	1220	High
W10	151	1210	High
W11	133	1230	High
W12	152	1240	High
W13	132	1240	High
W14	140	1220	High
W15	130	1210	High
W16	120	1170	Medium
W17	132	1180	Medium
W18	112	1210	High
W19	133	1280	High
Total :-	**2503**		

TABLE - 13.5 : AREA UNDER DIFFERENT EROSION CATEGORIES

Category	Area (ha)	Percentage
Very low	-	-
Low	-	-
Medium	1022	40.83
High	1481	59.17
Very High	-	-
Total :-	**2503**	**100.00**

The objective of the SYI method is to prioritize sub- watersheds in a catchment area for treatment. The total area under high erosion category in various dams is to be treated as a part of the project cost. The various measures suggested for catchment area treatment are depicted in Figure -D.

13.6 COST ESTIMATE FOR CAT PLAN

The cost required for Catchment Area Treatment is Rs. 6.94 Lakh. The details are given in Tables - 13.6 and 13.7

TABLE . 13.5 : COST ESTIMATE FOR CATCHMENT AREA TREATMENT OF SONKHEDI DAM .
BIOLOGICAL MEASURES

S.No.	Item	Rate/Unit (Rs.) (including maintenance cost)	Target	
			Physical	Financial (Rs. millions)
1	Gap Plantation	186800/ha	9 ha	1.681
2	Pasture Development	97500/ ha	5 ha	0.488
3	Social forestry	70000/ha	3 ha	0.210
4	Nursery development	120000 /No.	1 No.	0.120
5	Maintenance of nursery	125000/ No.	1 No.	0.125
6	Barbed wire fencing	50000/km	1.00	0.05
7	Watch and ward for 3 years for 5 persons	7500/ man-month	man- month	1.369
	Total (A)			**4.043**

TABTE = 13.7 : COST ESTIMATE FOR CATCHMENT AREA TREATMENT OF SONKHEDI DAM - ENGINEERING MEASURES

S.No.	Item	Rate (Rs.)	Unit	Target	
				Physical	Financial (Rs. millions)
1	Contour Bunding	15000/ha	Ha.	10 Ha.	1.500
2	Nallah Bunding	100,000	No.	01 No.	0.100
	Total :-				**1.600**

Total cost for Biological and Engineering measure = Rs. 4.043 Lakh (A)

Administrative expenditure

-	Government Expenditure 3% of A (including O&M)	Rs. 0.121 million
-	Establishment cost 8% of A	Rs. 0.323 million
-	Contingency 5% of A	Rs. 0.202 million
	Total :-	**Rs. 0.646 million**

13.5 (B) COST ESTIMATES OF CAT PLAN FOR FOREST AREA

The Total Catchment Area of SONKHEDI Dam is 535 l-hectares out of this 49.320 Hectares Forest Land. The cost required for Catchment Area treatment of Forest is Rs. 62.89 Lakh. The details are given in Tables-8 and 9.

TABLE-7 : COST ESTIMATE FOR TREATMENT OF CATCHMENT AREA IN FOREST AREA OF SONKHEDI DAM.BIOLOGICAL MEASURES

S.No.	Item	Rate/Unit (Rs.) (including maintenance cost)	Target	
			Physical	Financial (Rs. millions)
1	Gap Plantation	186800/ha	9 ha	1.681
2	Pasture Development	97500/ ha	5 ha	0.488
3	Social forestry	70000/ha	3 ha	0.210
4	Nursery development	120000 /No.	1 No.	0.120
5	Maintenance of nursery	125000/ No.	1 No.	0.125
6	Barbed wire fencing	50000/km	1.00	0.05
7	Watch and ward for 3 years for 2 persons	7500/ man-month	man- month	1.369
	Total (A)			**4.043**

TABLE.8 : COST ESTIMATE FOR TREATMENT OF CATCHMENT AREA IN FOREST AREA OF SONKHEDI DAM ENGTNEERING MEASURES

S.No.	Item	Rate (Rs.)	Unit	Target	
				Physical	Financial (Rs. millions)
1	Contour Bunding	15000/ha	Ha.	10 Ha.	1.500
2	Nallah Bunding	100,000	No.	01 No.	0.100
	Total :-				**1.600**

Total cost for Biological and Engineering measure = Rs. 4.043 Lakh (A)

Administrative expenditure

-	Government Expenditure 3% of A (including O&M)	Rs. 0.121 million
-	Establishment cost 8% of A	Rs. 0.323 million
-	Contingency 5% of A	Rs. 0.202 million
	Total :-	**Rs. 0.646 million**

Total Cost for Catchment Area Treatment for Forest Area of SONKHEDI Dam = 6.289 million.

परिशिष्ट-3

Office of The Executive Engineer,
Water Resources Division Barwani, District Barwani (M.P.)

Certificate

There are 22 number of families dependent on the proposed forest land which is going to be affected by the project.

Sonkhedi Tank Project is a proposed minor irrigation scheme of MPWRD and there is no provision for R&R in Minor Irrigation schemes of MPWRD.

However the affected families will be awarded compensation for affected land and houses in accordance with "Right to Fair Compensation and Transparency in Land Acquisition , Rehabilitation and Resettlement Act, 2013."

Sub Divisional Officer
W.R. Sub Division Sendhwa
Division- Barwani

Executive Engineer
Water Resources Division
Barwani

परिशिष्ट-4

Cost Benefit Analysis for

SONKHEDI TANK PROJECT

BARWANI

On the basis of Guidelines for Forest Land Diversion 2017

Table-A Cases Under Which A Cost Benefit Analysis for Forest Diversion Area Required

S. No.	Nature of Proposal	Applicable / Not Applicable	Remarks
1	All categories of proposal involving forest land upto 20 Ha. in plains and upto 5 Ha. in hills.	Not applicable	
2	Proposal for defense installation purposes and oil prospecting (prospecting only)	Not applicable	
3	Habitation, establishment of industrial units, tourist lodges complex and other building construction.	Not applicable	
4	All other proposal involving forest land more than 2o Ha. in plain and more than 5 Ha. in hills including roads, transmission lines, minor, medium and major irrigation project, hydro projects, mining activity, railway lines, location specific installations like micro-wave station, auto repeater centers, TV towers etc.	Applicable	

Table-B Estimation of Cost of Forest Diversion

S. No.	Parameters	Remarks
1	Ecosystem services losses due to proposed forest diversion.	Ecosystem services due to diversion of forest land suggested by the forest classification report of proposed, **Sonkhedi Tank Project (Minor Irrigation Tank)** is Rs. 12.29 Lakhs/Ha. Cost of Land = 49.320 x 12.29 = 606.14 Lakhs Eco Class III consisting of tropical dry decided forest dams.
2	Loss of animal husbandry productivity including cost of fodder.	As per the cost benefit guideline i.e. 10% of N.P.V. 1.229 Lakh per Ha. = 49.320 x 1.229= 60.61 Lakhs
3	Cost Human Resettlement	There is no human settlement due to proposed **Sonkhedi Tank Project (Minor Irrigation Tank).** Hence cost of human resettlement is nill.
4	Loss of public facilities and administrative infrastructure (road, building, schools, dispensaries, electric lines, railways etc.) on forest land if these facilities were diverted due to the project.	There is no loss of public facilities and administrative infrastructures of forest land due to construction of **Sonkhedi Tank Project (Minor Irrigation Tank).** No cost has been added on this account.
5	Possession value of forest land diverted.	The possession value of forest land diverted is taken 30% of the N.P.V. due to loss of forest i.e. Rs. 3.687 Lakhs/Ha. = 49.320 x 3.687 = 181.84 Lakhs
6	Cost of suffering to oustees	Not Applicable.
7	Habitat fragmentation cost	Forest land is being acquired for submergence of **Sonkhedi Tank Project (Minor Irrigation Tank).** There is no amount is taken under this account.
8	Compensatory afforestation and soil and moisture conservation cost.	The cost @Rs 6.33 Lakhs per Ha. is taken for compensatory afforestation and soil moisture conservation. Hence amount will be = 49.320 x6.33 = 312.20 Lakhs
9	Total cost due to forest land diversion	Total cost due to forest land diversion for **Sonkhedi Tank Project (Minor Irrigation Tank)** will be : = 606.14+60.61+181.84+312.20 = 1160.79 Lakhs.

Table-C Existing Guidelines for Estimating Benefits of Forest Diversion in CBA

S. No.	Parameters	Remarks
1	Increase in productivity attribute to the specific project.	The crop production benefit due to **Sonkhedi Tank Project** will be Rs. 3335 Lakhs in designed life of 50 years and water level will be increase economy growth of the project. Project also reserves the water for drinking purpose for adjacent villages.
2	Benefit to economy due to the specific project	**Sonkhedi Tank Project** will trigger economy development and also influence with irrigation facility to a land of 535 Ha. in the surrounding area. Irrigation is proposed by gravity flow system.
3	No. of population benefited due to specific project.	Project is located in backward area of the village. After completion of project 350 farmers benefited and 535 Ha. Irrigation area Cultivators will be benefited and water level will be increased in surrounding area. This project will also facilitate drinking water supply to adjacent villages.
4	Economic benefit due to of direct and indirect employment due to the project.	The project will be provided direct employment for approximate 6,000 people (24 months) during construction period.
5	Economic benefits due to compensatory afforestation.	An economic benefit due to compensatory afforestation has considered as per the benefit of C.A. guidelines of ministry for N.P.V. estimation.

Sub Divisional Officer
Water Resources Sub Division
Sendhwa

Executive Engineer
Water Resources Division
Barwani

SONKHEDI TANK PROJECT

Tehsil :– Varla District :- Barwani

BENEFIT COST RATIO

A. BENEFITS

1.	(i) Value of total agriculture produce Production before irrigation	:	Rs. 16865530.00
	(ii) Cost of cultivation to economy	:	Rs. 921090.00
	(iii) Net production before irrigation	:	Rs. 1594444.00
2.	(i) Value of agriculture production after irrigation	:	Rs. 51680000.00
	(ii) Cost of cultivation of economy	:	Rs. 2384500.00
	(iii) Net production after irrigation	:	Rs. 49295500.00
	Net Benefit 2 (iii)-1(iii)	:	**Rs. 33351060.00**

B. ANNUAL COST

		5%	10%
i	interest on capital Rs. 1609.01 lacs Production before irrigation	Rs. 8045050.00	Rs. 16090100.00
ii	Depreciation charges @2%	Rs. 3218020.00	Rs. 3218020.00
iii	Administration expenses @500/- per Ha.	Rs. 267500.00	Rs. 267500.00
	Total :-	**Rs. 11530570.00**	**Rs. 19575620.00**
	Benefit Cost Ratio	33351060 / 11530570	33351060 / 19575620
		2.89%	1.70%

Sub Divisional Officer
Water Resources Sub Division
Sendhwa

Executive Engineer
Water Resources Division
Barwani

SONKHEDI TANK PROJECT

Tehsil :– Varla

District :- Barwani

COST BENEFIT ANALYSIS

Total Cost Due To Forest Land	:	Rs. 1160.79 Lakh.
Total Benefit Due To Project	:	Rs. 3335 Lakh.
Benefit Ratio Of Project	:	0.35

Sub Divisional Officer
Water Resources Sub Division
Sendhwa

Executive Engineer
Water Resources Division
Barwani

परिशिष्ट -5

Certificate

Certified that compensatory afforestation project in degraded forest land, compartment number **404** Mahendriyapani, Range Warla of Forest Division Sendhwa comes under area bearing a vegetation density of 0.1 and falls under BL2 category according to the working plan.

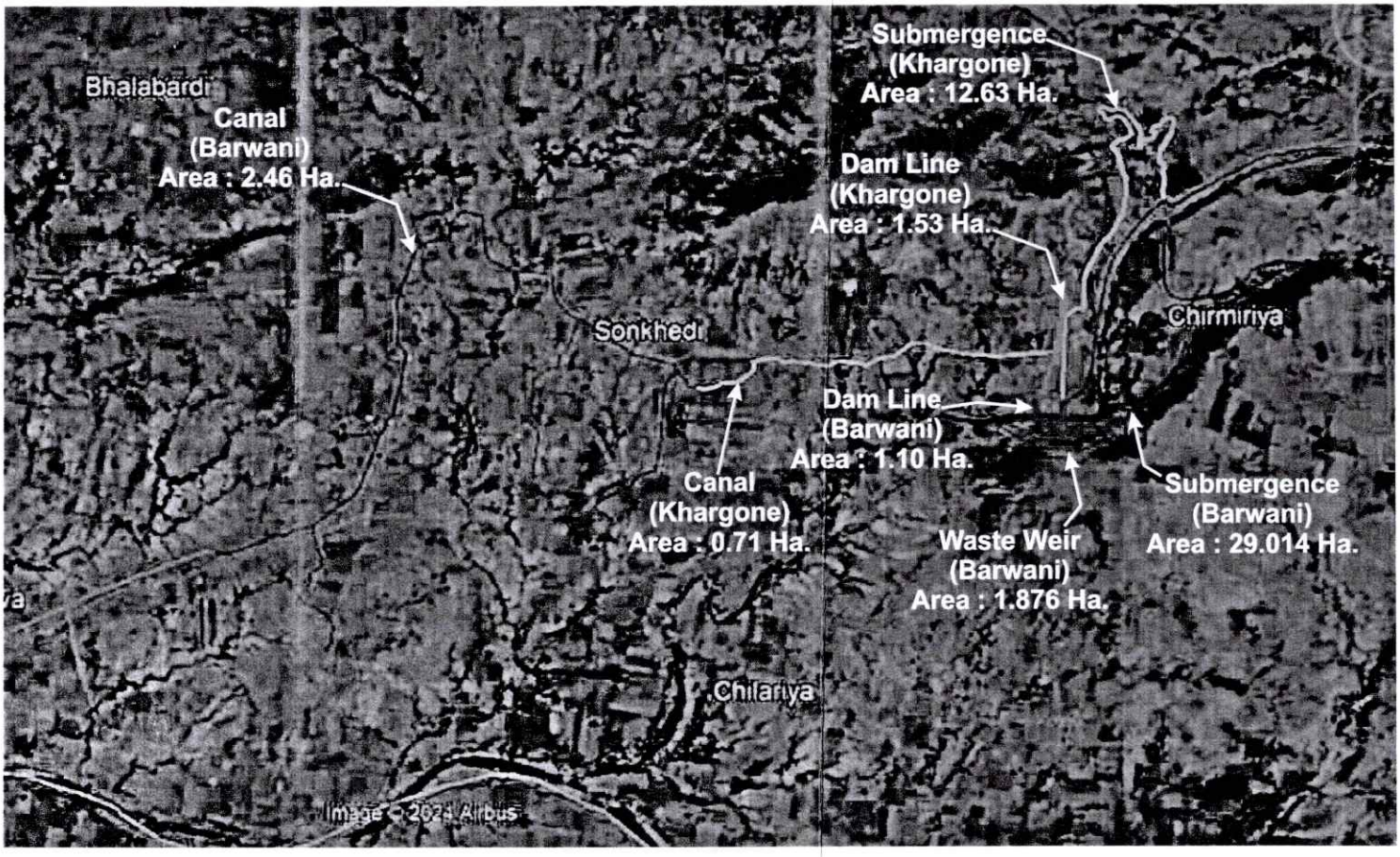
Hence compensatory afforestation project for plantation of 24320 balance saplings has been submitted accordingly.

(I.S. Gadriya)
Divisional Forest Officer
Division - Sendhwa

परिशिष्ट - 6 (2)

SONKHEDI TANK PROJECT

District : Barwani (M.P.)



Sub Divisional Officer
Water Resources Sub Division,
Sendhwa

Executive Engineer
Water Resources Division,
Barwani

परिशिष्ट - 7

Office of The Executive Engineer,
Water Resources Division Barwani, District Barwani (M.P.)

Certificate

Sonkhedi Tank Project, a minor irrigation scheme of MPWRD is proposed to be built across a local river. This project is first and a single purpose (irrigation) project on the river.

As per Chapter 09 Irrigation and Hydro-Electric Projects, we would like to emphasize that Para 9.3(i) and 9.3(ii) are applicable only for multipurpose/ hydro-power projects in the basin.

Hence it can be taken into consideration that there is no requirement for a Cumulative Impact study and Carrying capacity study for this specific project.

Sub Divisional Officer
W.R. Sub Division Sendhwa
Division Barwani

Executive Engineer
Water Resources Division
Barwani

परिशिष्ट-8

कार्यालय उपसंचालक, किसान कल्याण तथा कृषि विकास, जिला बड़वानी (म.प्र.)

क्रमांक/फसल चक्र/2017–18/5979 बड़वानी, दिनांक 12/12/17

प्रति,

कार्यपालन यंत्री,
जल संसाधन संभाग,
बड़वानी (म.प्र.)

विषय :– सोनखेड़ी तालाब का फसल चक्र अनुमोदन बाबत।

संदर्भ :– आपका पत्र क्रमांक 5054/कार्य/फसल चक्र/2017/ बड़वानी दिनांक 11.12.2017

---00---

उपरोक्त संदर्भित विषयान्तर्गत सोनखेड़ी तालाब तहसील वरला जिला बड़वानी का जल उपलब्धता एवं प्रदाय क्षमता अनुसार गणना कर फसल चक्र का निम्नानुसार अनुमोदन किया जाता है।

क्र.क्र.	फसल का नाम	क्षेत्रफल (हेक्टेयर)	पानी की मात्रा (मि.मी. मे)
1	उन्नत गेहूं	125	500
2	सामान्य गेहूं	282	450
3	चना	146	150
	योग :–	533	-

उपसंचालक
किसान कल्याण तथा कृषि विकास
जिला–बड़वानी (म.प्र.)

पृष्ठा. क्रमांक/फसल चक्र/2017–18/5979 बड़वानी, दिनांक 12/12/17

प्रतिलिपि :–

(1) अपर संचालक, किसान कल्याण तथा कृषि विकास, मध्यप्रदेश भोपाल।
(2) संयुक्त संचालक, किसान कल्याण तथा कृषि विकास, इन्दौर संभाग इन्दौर।

उपसंचालक
किसान कल्याण तथा कृषि विकास
जिला–बड़वानी (म.प्र.)

SONKHEDI TANK PROJECT

il- :- Varla

District : Barwani

WATER REQUIREMENT FOR CROP AT FIELD

Name of Crop	Area in Ha.	Delta in mm	Qty. of water Req. in M.cum		
1 RABI					
a) Wheat (Hy.)	125 Ha.	500	125 x 500 / 100000	=	0.6250 Mcum
b) Wheat (Ord.)	262 Ha.	450	262 x 450 / 100000	=	1.1790 Mcum
c) Gram	146 Ha.	150	146 x 150 / 100000	=	0.2190 Mcum
	533.0 Ha.	Sub Total			2.0230 Mcum
	Add 35% Evaporation and Transpiration Losses				0.7081 Mcum
		Grand Total			2.7311 Mcum

Totai water requirement 2.7311 Mcum

Sub Engineer

Sub Divisional Officer
Water Resources Sub Division
Sendhwa

Executive Engineer
Water Resources Division
Barwani

(35)
34

11

SONKHEDI TANK PROJECT

District :- Barwani

Tehsil:- Varla

PROJECT AT A GLANCE

Sonkhedi Tank Project Project is proposed to be taken up under Tribal Plan . The site is located in Sendhwa block of Barwani District . The project is located on local Nalla near village Sonkhedi which is approachable through 117 km By Tar road from Barwani district and then 3 Km by cart track near village Sonkhedi.

The net catchment area at the proposal tank site is 25.03 sq.km. as per Topo sheet No. 46O/7 on Longitude 75°29'13.784"E & Latitude 21°24'12.727"N , Sendhwa rain gauge station has been considered for hydrological calculations being the nearest to the site. The rainfall record of 41 years (1974-2014-15) has been considered for hydrological calculations. The mean annual rainfall is 825.561 mm and corresponding mean annual yield is 5.494 MCM with diminishing factor of 0.9. The 75% dependable annual rainfall is 659.5 mm and corresponding 75% dependable annual yield has been computed is 3.412 M.cum. with diminishing factor of 0.9.

The estimated cost of the project is Rs 1858.10 lakhs. The cost per Ha. is Rs 3.48 Lakhs/Ha. The benefit cost ratio at 5% interest is 2.49 and at 10% interest is 1.47

The project seems to be economical looking to the poor agriculture villagers. Hence it is recommended to be taken up under Tribal Plan.

The project on completion will extend irrigation facilities to 533. of Rabi . The irrigation benefits will be drawn by 100 % Tribal cultivators . During construction the scheme will provide employment to 20 % Tribal local population.

Sub Divisional Officer
Water Resources Sub Division
Sendhwa

Executive Engineer
Water Resources Division
Barwani

SONKHEDI TANK PROJECT

Tehsil:- Varla

District :- Barwani

REPORT

Introduction:-

The proposed site is situated on the Local Nalla in the block of Sendhwa. The proposed site is situated Near Village Sonkhedi in Sendhwa block in Barwani district in Madhya Pradesh state.

Location:-

Sonkhedi Tank Project Project is proposed to be taken up under Tribal Plan . The site is located in Sendhwa block of Barwani District . The project is located on local Nalla near village Sonkhedi which is approachable through 117 km By Tar road from Barwani district and then 3 Km by cart track near village Sonkhedi.

Proposal: -

Proposed Sonkhedi Tank Project is proposed on Local Nalla Near Village Sonkhedi . The catchment area up to proposed site is 25.03 Sq. km.

The proposed dam is earthen embankment having length of 469.57 m. The surplusing arrangement having the overflow length of 67 m to route the flood discharge of 257.38 cumces of discharge having a flood lift of 2 m is provide on Right side of the dam. The maximum height of earthen embankment is 26.46 m. on Dam axis.

Hydrology: -

The net catchment area at the proposal tank site is 25.03 sq.km. as per Topo sheet No. 46O/7 on Longitude 75°29'13.784"E & Latitude 21°24'12.727"N . Sendhwa rain gauge station has been considered for hydrological calculations being the nearest to the site. The rainfall record of 41 years (1974-2014-15) has been considered for hydrological calculations. The mean annual rainfall is 825.561 mm and corresponding mean annual yield is 5.494 MCM with diminishing factor of 0.9. The 75% dependable annual rainfall is 659.5 mm and corresponding 75% dependable annual yield has been computed is 3.412 M.cum. with diminishing factor of 0.9.

Dam: -

An earthen dam of 469.57m earthen embankment been proposed. The maximum height of Earthen bund is 26.46 m. The earthen dam profile is proposed homogeneous with the recommendations as mentioned in Technical circular No. 40. Cutoff trench is provided from ground level at level where MWL touches.

The Cutoff trench is provided up to depth of (half the height of MWL to ground level) with minimum depth of 2.0 m.

Boulder toe height is kept one fifth of bund height with minimum height of 0.90 m. 22 cm thick dry stone pitching on upstream slope over 15 cm thick quarry spalls from MWL to LSL is provided.

Reservoir Principle Levels and Capacity :-

The following Principle Levels have been proposed for the reservoir after detailed study

Particulars	Level in M	Capacity in MCM
Lowest Nalla Bed Level (NBL)	382.8425	
Lowest Sill Level (LSL)	395.10	0.448
Full Resrevoir Level (FRL)	405.30	3.408
Maximum Water Level (MWL)	407.30	
Top Bund Level (TBL)	409.30	

Basin and Submergence :-

The Basin is surrounded by semi hillocks. An area of 47.55 Ha of Forest Land coming under submergence.

Cropping pattern :-

The following cropping pattern is proposed to serve 533 Ha of command.

Rabi	Area (Ha.)
Wheat (Hy.)	125
Wheat (Ord.)	262
Gram	146
Grand Total	533

Irrigation Sluice :-

Irrigation o Right side of the stream is proposed, necessitating an Unlined of only One sluice with a discharge of 0.993 cumes.

Canal Alignment :-

Canal alignment is a countour canal and it is proposed an Unlined canal : having discharge 0.85 cumecs in the beginning and 0.82 cumecs at the tail end to irrigate 533 hectares of land.

Flood :-

The flood computation are made as per the maximum design discharge of 257.38 cumecs for a catchment of 25.03 Sq.Km. according to the value of "C" in Dickens formula is 23,Q = CM3/4 the discharge worked out as 257.38 cumecs. A Flush bar is located on Right side of dam axis. 2 m. flood lift to route the flood discharge of 257.38 m^3/sec with 67 m length of flush bar.

Estimate :-

The cost of project has been calculated on schedule of rates 2017 enforced from 01.09.2017. As it is Technical Sanction the major components of the project has been considered to estimate the cost of project such as 'L' Earth Work o Bund, 'C' Masonry, chute fall and "B" Land etc.

Unit I Head Work

"A" Preliminary : NIL
"B" Land :- Lakhs - 820.68
"C" Masonry :- Lakhs - 147.65
"L" Earthwork :- Lakhs - 575.998

Unit II Canal

"A" Preliminary : NIL
"B" Land :- 22.53 Lakhs
"C" Masonry :- 98.238 Lakhs
"L" Earthwork :- 38.19 Lakhs

Specifications :-

Specification shall be following as per the specifications of Govt. of Madhya Pradesh Water Resources Department.

Recommendations :-

The proposed Sonkhedi Tank Project cost amounting to Rs 1858.10 Lakhs to provide irrigation of 533 Rabi with cost per hectare Rs 3.48 Lakhs/Ha. The submergence area of the scheme is fully in forest. There for the cost per hectare is increasing. Yet the scheme is viable. Hence is recommended for approval.

Sub Engineer

Sub Divisional Officer
Water Resources Sub Division
Sendhwa

Executive Engineer
Water Resources Division
Barwani

Superintending Engineer
Water Resources Circle
Khargone

Chief Engineer
Water Resources Department
Narmada Tapti Basin - Indore

परिशिष्ट-9

स्थल निरीक्षण

:: प्रमाण–पत्र ::

प्रमाणित किया जाता है कि सोनखेड़ी तालाब योजना में प्रभावित 49.320 हेक्ट वन भूमि के बदले कैम्पा मद योजनांतर्गत क्षतिपूर्ति वनीकरण वृक्षारोपण बीट मण्ड़वाड़ा, परिक्षेः राजपुर, वन मण्डल (सा.) बड़वानी ग्राम फत्यापुर, सर्वे कमांक 164, रकबा 49.320 हेक्टर क्षेत्र क निरीक्षण मेरे द्वारा दिनांक ..... को किया गया। क्षेत्र वृक्षारोपण कार्य हेत् उपयुक्त है।

वन परिक्षेत्राधिकारी
परिक्षेत्र राजपुर

:: प्रमाण–पत्र ::

प्रमाणित किया जाता है कि सोनखेड़ी तालाब योजना में प्रभावित 49.320 हेक्ट. वन भूमि के बदले कैम्पा मद योजनांतर्गत क्षतिपूर्ति वनीकरण वृक्षारोपण बीट मण्ड़वाड़ा, परिक्षेत्र राजपुर, वन मण्डल (सा.) बड़वानी ग्राम फत्यापुर, सर्वे कमांक 164, रकबा 49.320 हेक्टर क्षेत्र का निरीक्षण मेरे द्वारा दिनांक 05.06.2023 को किया गया। क्षेत्र वृक्षारोपण कार्य हेतु उपयुक्त है।

Aparadhi
उप वन मण्डलाधिकारी
बड़वानी (सा.)

परिशिष्ट-9

कार्यालय अनुविभागीय अधिकारी, राजस्व राजपुर, जिला बड़वानी

SDO(R) प्र.क्र. 05/33-2013

:: प्रमाण–पत्र ::

प्रमाणित किया जाता हैं कि, ग्राम फत्यापुर, पटवारी हल्का नम्बर–17 , तहसील अंजड में स्थित शासकीय भूमि सर्वे नम्बर 164, रकबा 154.808 हेक्टर मद पहाड में से पैकी रकबा 49.320 हेक्टर की भूमि वन विभाग को हस्तान्तरित की गई, जिसे संरक्षित वन घोषित करने हेतु उक्त भूमि अतिक्रमण मुक्त होकर वर्तमान में वन विभाग के कब्जे में हैं।

अतः यह प्रमाण पत्र वन मण्डल बड़वानी द्वारा मांग करने पर दिया गया हैं।

अनुविभागीय अधिकारी
अनुविभागीय अधिकारी
राजस्व राजपुर
(राजस्व) राजपुर

कार्यालय अनुविभागीय अधिकारी, राजस्व राजपुर, जिला बड़वानी

SDO(R)/प्र.क्र. 05/अ.-20(3)/21-22

:: प्रमाण–पत्र ::

प्रमाणित किया जाता हैं कि, ग्राम फत्यापुर, पटवारी हल्का नम्बर–17 , तहसील अंजड में स्थित शासकीय भूमि सर्वे नम्बर 164, रकबा 154.808 हेक्टर मद पहाड में से पैकी रकबा 49.320 हेक्टर की भूमि वन विभाग को हस्तान्तरित की गई। उक्त भूमि पर किसी भी व्यक्तिगत एवं सामुदायिक रूप से कब्जा नहीं होने से राजस्व अभिलेखों में उनके कब्जे की प्रविष्ठि नहीं हैं।

अतः यह प्रमाण पत्र वन मण्डल बड़वानी द्वारा मांग करने पर दिया गया हैं।

अनुविभागीय अधिकारी
(राजस्व) राजपुर

(A)
(39)

कार्यालय अनुविभागीय अधिकारी, राजस्व राजपुर, जिला बड़वानी

SDO(R) ब.क्र. 05/भ.प्र.(3)/21

:: प्रमाण–पत्र ::

प्रमाणित किया जाता हैं कि, ग्राम फत्यापुर, पटवारी हल्का नम्बर–17 , तहसील अंजड में स्थित शासकीय भूमि सर्वे नम्बर 164, रकबा 154.808 हेक्टर मद पहाड में से पैकी रकबा 49.320 हेक्टर की भूमि वन विभाग को हस्तान्तरित की गई, जिसे संरक्षित वन घोषित करने हेतु प्रस्तावित गैर भूमि का वैधानिक स्वरूप शासकीय राजस्व भूमि हैं। इसमें निजी भूमि शामिल नहीं हैं।

अतः यह प्रमाण पत्र वन मण्डल बड़वानी द्वारा मांग करने पर दिया गया हैं।

अनुविभागीय अधिकारी
(राजस्व) राजपुर

कार्यालय अनुविभागीय अधिकारी, राजस्व राजपुर, जिला बड़वानी

5DD(P) प्र.क्र. 05/अ-20(3)/21-22

:: प्रमाण–पत्र ::

प्रमाणित किया जाता हैं कि, ग्राम फत्यापुर, पटवारी हल्का नम्बर–17 , तहसील अंजड में स्थित शासकीय भूमि सर्वे नम्बर 164, रकबा 154.808 हेक्टर मद पहाड में से पैकी रकबा 49.320 हेक्टर की भूमि वन विभाग को हस्तान्तरित की गई, जिसे संरक्षित वन घोषित करने हेतु बड़े झाड एवं छोटे झाड के जंगल मद की भूमि सम्मिलित नहीं हैं।

अतः यह प्रमाण पत्र वन मण्डल बड़वानी द्वारा मांग करने पर दिया गया हैं।

अनुविभागीय अधिकारी
(राजस्व) राजपुर

Certificate of Forest (FRM)

कार्यालय अनुविभागीय अधिकारी, राजस्व राजपुर, जिला बड़वानी

SDO(R)/G.K.05/अ-20(3)/21-

:: प्रमाण–पत्र ::

प्रमाणित किया जाता हैं कि, ग्राम फत्यापुर, पटवारी हल्का नम्बर–17 , तहसील अंजड में स्थित शासकीय भूमि सर्वे नम्बर 164, रकबा 154.808 हेक्टर मद पहाड में से पैकी रकबा 49.320 हेक्टर की भूमि वन विभाग को हस्तान्तरित की गई। उक्त भूमि का वन विभाग के अधिकारियों की उपस्थिति में सीमांकन किया गया।

अतः यह प्रमाण पत्र वन मण्डल बड़वानी द्वारा मांग करने पर दिया गया हैं।

अनुविभागीय अधिकारी
(राजस्व) राजपुर

अनुविभागीय अधिकारी
(राजस्व) राजपुर

कार्यालय अनुविभागीय अधिकारी, राजस्व राजपुर, जिला बड़वानी

SDO(R)/क्र. 05/अ-20(3)/21-

:: प्रमाण–पत्र ::

प्रमाणित किया जाता हैं कि, ग्राम फत्यापुर, पटवारी हल्का नम्बर–17 , तहसील अंजड में स्थित शासकीय भूमि सर्वे नम्बर 164, रकबा 154.808 हेक्टर मद पहाड में से पैकी रकबा 49.320 हेक्टर की भूमि वन विभाग को हस्तान्तरित की गई, जिसे संरक्षित वन घोषित करने हेतु उक्त भूमि अन्य परियोजना में वैकल्पिक वृक्षारोपण हेतु नहीं दी गई हैं।

अतः यह प्रमाण पत्र वन मण्डल बड़वानी द्वारा मांग करने पर दिया गया हैं।

अनुविभागीय अधिकारी
(राजस्व) राजपुर

अनुविभागीय अधिकारी
(राजस्व) राजपुर

मध्यप्रदेश कम्प्यूटरीकृत भू-अभिलेख

खसरा

प्ररूप एक (नियम 6 देखिए)

मध्यप्रदेश भू-राजस्व संहिता (भू-सर्वेक्षण तथा भू-अभिलेख) नियम, 2020

CLR No. : 11034631864

ग्राम: कल्यापुर			पटवारी हल्का: कल्यापुर			तहसील: अंजड			जिला: बड़वानी		वर्ष: 2022-2023
भूमि के भाग की यूनिक आईडी	भूमि के भाग का प्रकार (सर्वेक्षण संख्यांक /ब्लॉक संख्यांक)	भू-खण्ड संख्यांक (ब्लॉक की दशा में)	1. क्षेत्रफल (हेक्टेयर/वर्ग मीटर में) 2. भूमि उपयोग जिसके लिए निर्धारित किया गया है 3. भू-राजस्व/भू-भाटक (रु. में)	1. भूमिस्वामी का नाम, उसकी माता /पिता / पति का नाम तथा निवास का पता 2. शासकीय भूमि	प्रत्येक भूमि स्वामी का अंश	1. सरकारी पट्टेदार का नाम, उसकी माता/पिता/पति का नाम तथा निवास का पता 2. पट्टे की अवधि 3. पट्टे के अधीन क्षेत्र	मौरुसी कृषक (यदि कोई हो) का नाम, उसकी माता/पिता/पति का नाम तथा निवास का पता	भूमि पर विद्यमान तथा प्रभार 1. बंधक 2. दृष्टिबंधक 3. भू-अर्जन प्रक्रियाधीन	फसल के ब्यौरे: फसल 1. खरीफ 2. रबी 3. जायद 4. अन्य	फसल के अधीन क्षेत्रफल	1. भूमि के सिंचाई संबंधी प्राविधियां 2. भूमि पर संरचना /वृक्ष 3. अन्य अभियुक्तियाँ 4. वर्ष के दौरान कॉलम संख्या (1) से (9) तक में प्रविष्टियों में सुधार के आदेश
1	2	3	4	5	6	7	8	9	10	11	12
153494 5375	164/2 (S)		49.3200 हेक्टेयर रु.0.00	(शासकीय) वन-विभाग मध्यप्रदेश शासन शासकीय संस्था	1						न्यायालय कलेक्टर के प्रकरण क्र. 0008/अ-20(3)/2021-22, आदेश दि. 30/03/2022 के अनुसार भू-अभिलेख अद्यतित। पशु विभाग को 50.625 है हस्तांतरित

न्यायालय कलेक्टर, जिला–बड़वानी (म0प्र0)

क्रमांक/2444 /रीडर/भूमि आवंटन/2022 बड़वानी, दिनांक 30/03/2022

प्र.क.0008/अ–20(3)/2021–22

::आदेश::

(पारित दिनांक 30–03–2022)

कार्यपालन यंत्री, जल संसाधन सम्भाग बड़वानी द्वारा विकासखण्ड सेंधवा अंतर्गत सोनखेड़ी तालाब योजना निर्माण से रकबा 49.320 हेक्टर वन विभाग की भूमि प्रभावित होने से वन विभाग को वैकल्पिक वृक्षारोपण योजना तैयार करने हेतु जिला बड़वानी अंतर्गत प्रभावित वन भूमि के एवज में प्रथमतः गैर वनभूमि तहसील अन्जड़ के ग्राम फत्यापुर के सर्वे नंबर 164 रकबा 154.808 हेक्टर शासकीय भूमि में से पैकि रकबा 49.320 हेक्टर राजस्व भूमि उपलब्ध कराने की मांग ऑनलाईन मांग आर.सी.एम.एस. पोर्टल पर प्रस्तुत की गई ।

2/ कार्यपालन यंत्री, जल संसाधन सम्भाग बड़वानी की ओर मांग किये जाने पर अनुविभागीय अधिकारी (राजस्व) राजपुर से जांच प्रतिवेदन चाहा गया ।

3/ अनुविभागीय अधिकारी (राजस्व) राजपुर द्वारा प्रकरण में तहसीलदार अन्जड़ से प्रतिवेदन प्राप्त किया गया । तहसीलदार अन्जड़ द्वारा अपने प्रतिवेदन में उल्लेख किया गया है कि प्रश्नाधीन भूमि हस्तांतरण के संबंध में सार्वजनिक उद्घोषणा का प्रकाशन कराया गया, नियत समयावधि में कोई आपत्ति प्राप्त नहीं हुई । आवेदित भूमि के संबंध में नगर तथा ग्राम निवेश खरगोन एवं लोक निर्माण विभाग बड़वानी से अनापत्ति प्रमाण पत्र प्राप्त किया गया । ग्राम पंचायत फत्यापुर द्वारा नियत समयावधि में कोई अभिमत/अनापत्ति पेश नहीं किये जाने से यह मान्य किया गया कि संबंधित निकाय को भूमि हस्तांतरण में कोई आपत्ति नहीं है। राजस्व निरीक्षक द्वारा मौका निरीक्षण किया गया, जिसमें ग्राम फत्यापुर तहसील अन्जड़ के सर्वे नंबर 164 रकबा 154.808 हेक्टर मद पहाड़ में से पैकि रकबा 49.320 हेक्टर अतिक्रमण मुक्त है । उक्त भूमि आवंटन से ग्राम का चरनोई रकबे में कोई विपरीत प्रभाव नहीं पड़ेगा । तहसीलदार द्वारा वन विभाग को सार्वजनिक प्रयोजन हेतु नजूल निर्वर्तन नियम–2020 के तहत भूमि हस्तांतरित किया जाना उचित बताया ।

4/ अनुविभागीय अधिकारी (राजस्व) राजपुर द्वारा तहसीलदार के प्रतिवेदन से सहमत होते हुये ग्राम फत्यापुर तहसील अन्जड़ के सर्वे नंबर 164 रकबा 154.808 हेक्टर में से पैकि रकबा 49.320 हेक्टर भूमि वन विभाग को हस्तांतरण की अनुशंसा की गई है ।

5/ प्रकरण में जिला नजूल निवर्तन समिति, बड़वानी से संयुक्त प्रतिवेदन प्राप्त किया गया । जिला नजूल निवर्तन समिति द्वारा परीक्षण उपरांत प्रतिवेदित किया गया कि विकासखण्ड सेंधवा अंतर्गत सोनखेड़ी तालाब योजना निर्माण से वन विभाग की भूमि प्रभावित होने से उक्त भूमि के बदले शासकीय भूमि रकबा 49.320 हेक्टर हेतु तहसीलदार अन्जड़ के प्रतिवेदन के आधार पर कंडिका 13(2) की संपूर्ण कार्यवाही संपादित की गई। तहसीलदार द्वारा उद्घोषणा जारी की गई, नियत अवधि में कोई आपत्ति प्राप्त नहीं हुई अनुविभागीय अधिकारी (राजस्व) राजपुर द्वारा तहसीलदार के प्रतिवेदन से सहमत होते हुये म.प्र. नजूल निवर्तन नियम 2020 की कंडिका 13(3) अनुसार जांच प्रतिवेदन मय अनुशंसा प्रेषित किया गया एवं कंडिका 13(4) अनुसार नजूल अधिकारी द्वारा प्रारूप–दो में प्रतिवेदन प्रस्तुत किया गया । जिला नजूल निर्वतन समिति द्वारा अनुविभागीय अधिकारी (राजस्व) राजपुर एवं तहसीलदार अन्जड़ से प्राप्त प्रतिवेदन के आधार पर सोनखेड़ी तालाब योजना निर्माण से वन विभाग की भूमि रकबा 49.320 हेक्टर प्रभावित होने से उक्त भूमि के बदले ग्राम फत्यापुर तहसील अन्जड़ के सर्वे नंबर 164 रकबा 154.808 हेक्टर मद पहाड़ में से पैकि रकबा 49.320 हेक्टर भूमि म.प्र. नजूल निवर्तन नियम 2020 के अध्याय–2 के तहत हस्तांतरित किये जाने हेतु प्रकरण प्राप्त हुआ है ।

(38)

अतः अनुविभागीय अधिकारी (राजस्व) राजपुर एवं तहसीलदार अन्जड़ तथा जिला नजूल निर्वतन समिति के प्रतिवेदन से सहमत होते हुये सोनखेड़ी तालाब योजना निर्माण से वन विभाग की भूमि रकबा 49.320 हेक्टर प्रभावित होने से उक्त भूमि के बदले तहसील अन्जड़ के ग्राम फत्यापुर के सर्वे नंबर 164 रकबा 154.808 हेक्टर मद पहाड़ में से पैकि रकबा 49.320 हेक्टर भूमि म.प्र. नजूल निवर्तन नियम 2020 के अध्याय–2 के तहत वन विभाग को वैकल्पिक वृक्षारोपण हेतु निम्न शर्तों के अधीन हस्तांतरित की जाती है:–

1– म.प्र.शासन द्वारा यदि भूमि के मूल्य/भू–भाटक आदि के संबंध में कोई शासनादेश/निर्देश दिये जाते है या अन्य कोई शर्त आरोपित की जाती है तो उन्हें मानने के लिये आवेदक विभाग बाध्य होगा।

2– भूमि का उपयोग उसी प्रयोजन के लिये ही किया जा सकेगा, जिस प्रयोजन के लिय भूमि हस्तांतरित की गई है, अन्यथा भूमि अंतरण आदेश स्वमेव निरस्त होकर शासकीय भूमि पुनः शासन में समाविष्ट होगी।

(शिवराजसिंह वर्मा)
कलेक्टर
जिला बड़वानी, म.प्र.

पृ.क्रमांक/ 2445 /रीडर/भूमि आबंटन/2022 बड़वानी, दिनांक 30/03/2022

प्रतिलिपिः–

1– प्रमुख सचिव, म.प्र.शासन, राजस्व/वन विभाग, भोपाल ।
2– आयुक्त, इन्दौर संभाग, इन्दौर ।
3– वन मण्डलाधिकारी, वन मण्डल (सा) बड़वानी/सेंधवा ।
4– अनुविभागीय अधिकारी (राजस्व) राजपुर ।
5– कार्यपालन यंत्री, जल संसाधन सम्भाग बड़वानी ।
6– अधीक्षक, भू–अभिलेख जिला बड़वानी ।
7– तहसीलदार अन्जड़ की ओर आदेश की प्रति सह मूल प्रकरण भेजकर लेख है कि नियमानुसार सम्पूर्ण पूर्णता एवं आदेशानुसार राजस्व अभिलेख में पृविष्ट कर संशोधित अभिलेख संलग्न करते हुए मूल प्रकरण वापस प्रेषित करें ।

T/S 31/03/22

संलग्न–मूल प्रकरण क्रमांक 0008/अ–20(3)/2021–22

कलेक्टर,
जिला बड़वानी, म.प्र.