

**Ph.D. Title: STUDIES ON THE HYDROECOLOGY AND
ENVIRONMENTAL SHIFT-EVALUATION OF PANCHANA DAM
IRRIGATION PROJECT AND ITS CORRIDOR SYSTEMS**

(Botany: 1998)

M.D.S. University, Ajmer (Rajasthan)

Dr. S. L. Meena

Scientist-D

**Botanical Survey of India
Arid Zone Regional Centre
Jodhpur, Rajasthan**

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ANNUAL ACTION PLAN PROJECTS

NAME OF PROJECTS

**1. Flora of Chittor Dist.,
Andhra Pradesh State.
(1999-2001)**

**2. Flora of Banaskantha Dist.,
Gujarat State. (2002-2005)**

OUTPUT

381 F. Nos. Collected & Identified and accompanied with Ex-Scientist, Dr. G.V. S. Murthy.

Mss. for Flora of Kerala State Tribe –
Dalbergieae; family- Acanthaceae (in part)
& Thunbergiaceae.

812-Species, 442-Genera, 116
Families.

*Protected Area:

Balaram - Ambaji Wildlife Sanctuary
Jessore Sloth Bear Wildlife Sanctuary

24 -New records, **13** -Papers

Nelumbo. 54: 39-91. 2012

NAME OF PROJECTS

OUTPUT

3. Flora of Ahmedabad & Gandhinagar Dists., Gujarat State.(2005-2009)

900 Species, 464 Genera, 118 Families.

*Protected area:

Nalsarover Birds Sanctuary.

14 New records, **3** Papers

Nelumbo 56: 124-182. 2014

4. Flora of Bhavnagar Dist., Gujarat State. (2008-2013)

607 Species, 343 Genera, 88 Families.

*Protected area:

Vellavadar Black Buck National Park.

3 New records, **5** Papers

Nelumbo 56: 183-224. 2014

NAME OF PROJECTS

OUTPUT

5. Flora of Shoolpaneshwer Wildlife Sanctuary, Narmada Dist. Gujarat State. (2012-17)

Dr. S.L. Meena, Sci. - D &
Dr. Peddi Harikrishna, Bot. Asstt.

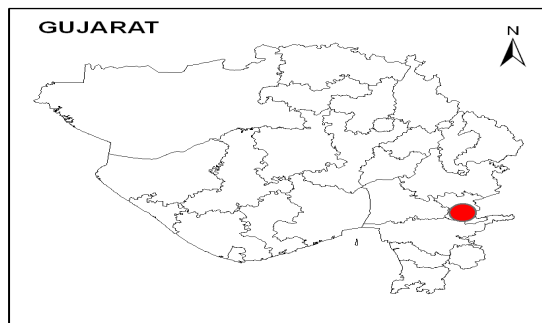
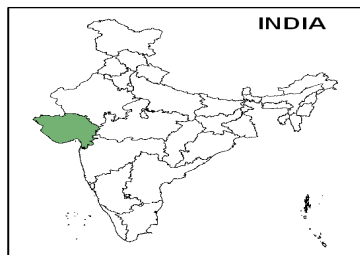
1127 F. Nos. collected

1074 F. Nos. Identified & Label
written.

10 New records (including **2** generic
records) for State Flora.

2 Paper published.

2 Papers in press.

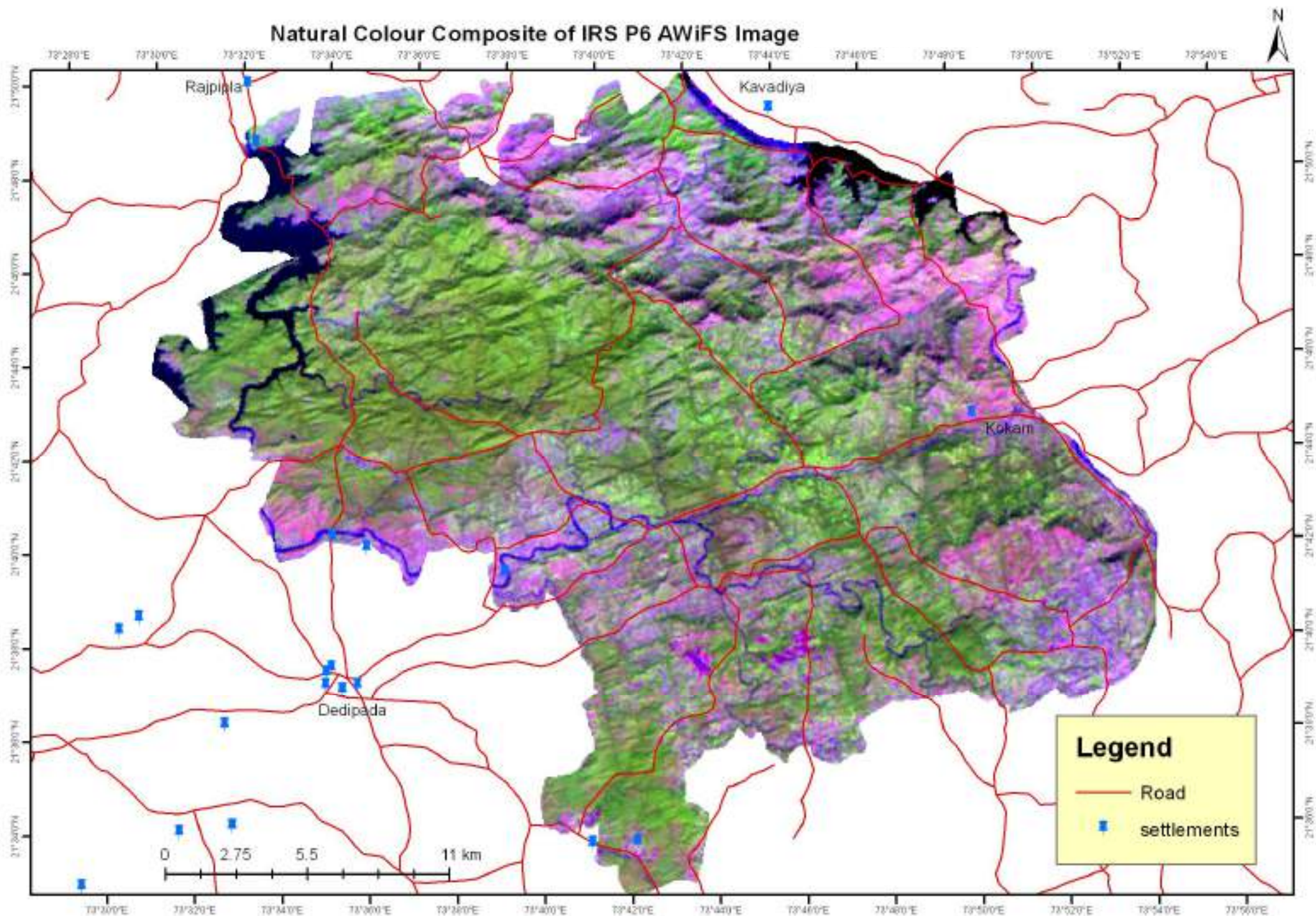


Shoolpaneshwar WLS



Study area map

Natural Colour Composite of IRS P6 AWiFS Image



VEGETATION TYPES IN SHOOLPANESHAH WLS, NARMADA DIST., GUJARAT



A view of Moist - Deciduous forest



A view of Dry Deciduous forest



Bamboo plantation by Gujarat forest Department at Baghumber area



Ninai waterfall



Grassland in high altitude area at Nechala Matasar

NEW FINDINGS



Heterostemma dalzellii Hook.f.
(flower close-up in inset).



Spigelia anthelmia L.

ENDEMIC PLANTS

1. ***Ipomoea clarkei*** Hook.f.
2. ***Spodiopogon rhizophorus*** (Steud.) Pilger
3. ***Senecio bombayensis*** N.P. Balakrishnan
4. ***Senecio dalzellii*** C.B. Clarke
5. ***Tripogon jacquemontii*** Stapf

GPS Readings of Rare Species found in Shoolpaneshwar Wildlife Sanctuary

Sl. No.	SCIENTIFIC NAME	FAMILY	LONG.	LAT.	F. NO.	LOCALITY
1	Cochlospermum religiosum (L.) Alst.	Chocholospermaceae	73 41 45.1	21 50 16.6	27932	Zarwani- Gora range
2	Cochlospermum religiosum (L.) Alst.	Cochlospermaceae	73 33 17	21 48 08.1	30353	Junaraj forest area
3	Crateva adansonii ssp. odora (Buch.-Ham.) Jacob.	Cleomaceae	73 47 41.3	21 44 52.2	30527	Back of Dhaman mall hills
4	Barleria prionitis L. subsp. prionitis var. dicantha Baltt. & Hallb.	Acanthaceae	73 48 28.9	21 46 44.5	30496	Near Kanji
5	Bauhinia vahlii Wight & Arn.	Caesalpiniaceae	73 39 59.2	21 45 19.2	30325	Near Chopdi
6	Begonia crenata Dryand	Begoniaceae	73 44 46	21 43 50.3	27773	Near Waghambar
7	Biophytum candolleianum Wight	Fabaceae	73 49 43.7	21 45 15.9	30429	Near Damkhal
8	Blumea malcolmi (C.B. Clarke) Hook.f.	Asteraceae	73 49 01.8	21 40 03.3	21418	Ninai waterfall area
9	Blumea malcolmi (C.B. Clarke) Hook.f.	Asteraceae	73 49 49.6	21 39 47.4	30321	Near Kelda
10	Blumea oxydenta DC.	Asteraceae	73 49 35.3	21 39 17.6	27269	Kokti area
11	Boerhabia rubicunda Steud.	Nyctaginaceae	73 41 63.2	21 48 59.4	27911	Zarwani
12	Boerhavia erecta L.	Nyctaginaceae	73 41 56 .1	21 48 23.6	27883	Zarwani
13	Bombax insigne Wall	Bombacaceae	73 48 94.7	21 39 19.3	30345	Kelda
14	Bridelia stipularis (L.) Blume	Euphorbiaceae	73 40 02.8	21 45 22.4	27960	Chopdi forest area
15	Butea parviflora Roxb.	Fabaceae	73 40 45.9	21 45 44.2	30303	Talighat-Fulsar range
16	Butea superba Roxb.	Fabaceae	73 40 02.2	21 44 56.3	27491	Gichad forest
17	Caillipedium assimile (Steud.) A. Camus	Poaceae	73 43 12.7	21 48 15.9	30508	Zarwani back side

6. FLORA OF GUJARAT STATE (as a contributor).

1. Flora of Gujarat Vol. - I. 200 Species, 25 families. (2008)

Rosaceae, Vahliaceae, Crassulaceae Haloragaceae, Rhizophoraceae, Combretaceae, Myrtaceae, Leycythidaceae, Barringtoniaceae, Melastomataceae, Lythraceae, Sonneratiaceae, Punicaceae, Onagraceae, Trapaceae, Turneraceae, Passifloraceae, Caricaceae, Cucurbitaceae, Begoniaceae, Cactaceae, Aizoaceae (Ficoideae), Molluginaceae, Apiaceae (Umbelliferae *nom. alt.*) & Alangiaceae

2. Flora of Gujarat Vol. - II. 230 Species, 12 families. (2010)

Apocynaceae, Periplocaceae, Buddlejaceae, Loganiaceae, Gentianaceae, Menyanthaceae, Hydrophyllaceae, Solanaceae, Acanthaceae, Thunbergiaceae, Lamiaceae & Plantaginaceae.

3. Flora of Gujarat, Vol. - III. 288 Species, 27 families. (2014)

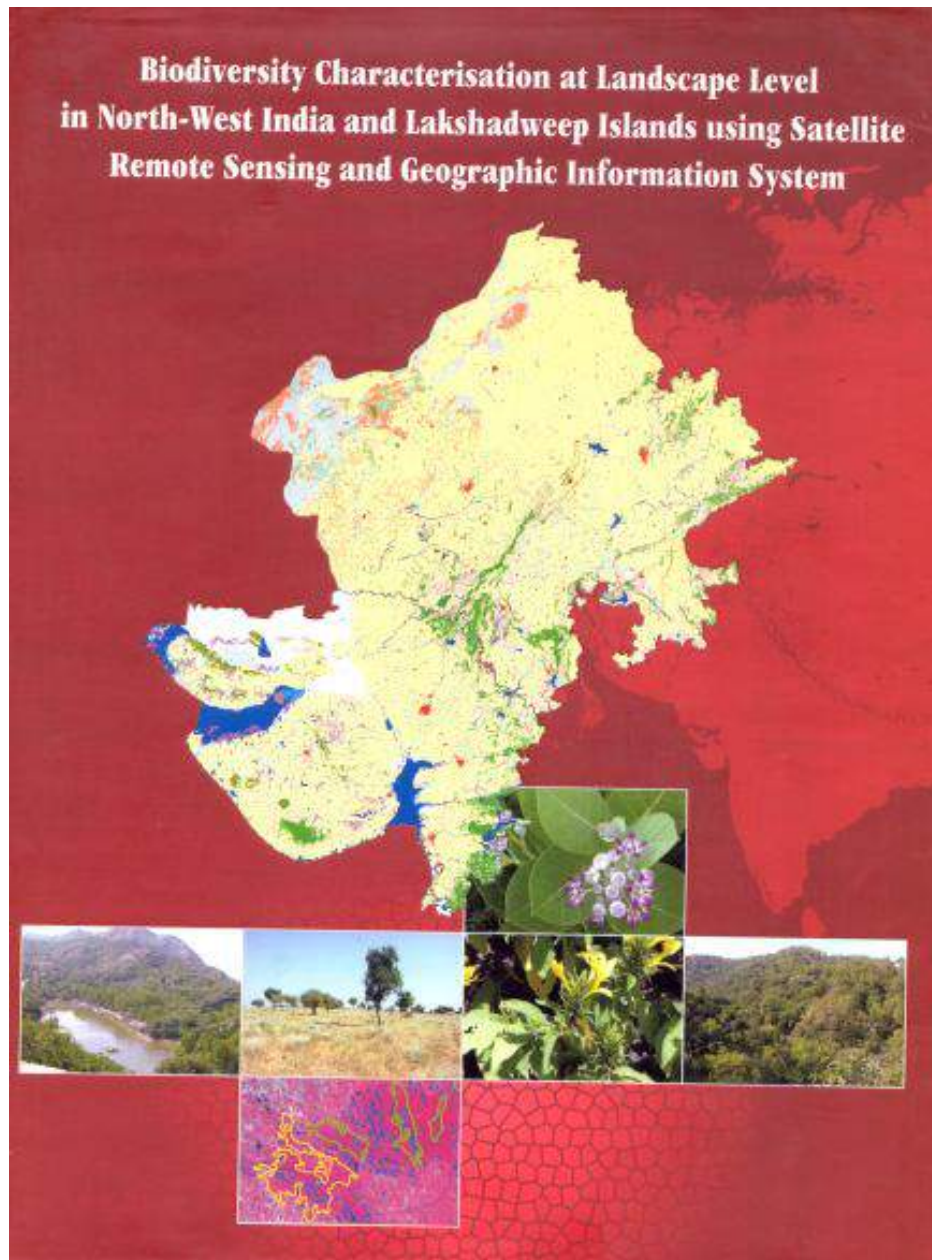
Zingiberaceae, Musaceae, Cannaceae, Haemodoraceae, Amaryllidaceae, Hypoxidaceae, Agavaceae, Taccaceae, Dioscoreaceae, Liliaceae, Smilacaceae, Pontederiaceae, Commelinaceae, Juncaceae, Arecaceae (Palmae), Pandanaceae, Typhaceae, Araceae, Lemnaceae, Alismataceae, Butomaceae, Potamogetonaceae, Zannichelliaceae, Najadaceae, Ruppiaceae, Eriocaulaceae and Cyperaceae.

7. FLORA OF INDIA - Project

Contributed:

1. Documentation for family **Vahiliaceae** for Vol. - 9
(S.L. Meena & W. Arisdason)
2. Documentation for family **Convolvulaceae**:
149 species, 3 subspecies, 18 varieties and 2
forma & 11 cultivated species under 25 genera for
Vol. 18.
(P.J. Parmar & S.L. Meena)

COLLABORATIVE PROJECTS CARRIED OUT



PHYTODIVERSITY OF PROPOSED HADLA LIGNITE MINE, DISTRICT BIKANER (RAJASTHAN)

(Final Report)



Project Team

Dr. P.M. PADHYE & Dr. S.L. MEENA



BOTANICAL SURVEY OF INDIA
ARID ZONE REGIONAL CENTRE, JODHPUR

DECEMBER, 2011

FLORA OF RAJASTHAN : A CHECKLIST



BY

R.P. PANDEY, S.L. MEENA, P.J. PARMAR, V. SINGH, P.M.
PADHYE & VINOD MAINA

BOTANICAL SURVEY OF INDIA, ARID ZONE REGIONAL
CENTRE, JODHPUR

JULY, 2012

SUPPLEMENT TO THE FLORA OF RAJASTHAN



BY

P.J. PARMAR, R.P. PANDEY, S.L. MEENA & V. SINGH
BOTANICAL SURVEY OF INDIA, ARID ZONE REGIONAL
CENTRE, JODHPUR

JULY, 2012

Lecture delivered



ADMINISTRATIVE WORKS

1. Worked as DDO from 1999 to 2001 in BSI, SRC, Coimbatore.
2. Worked as DDO from 2004 to Feb. 2015. in BSI,AZRC, Jodhpur.
3. Officiated as Office In-charge as and when required.
4. Worked as Store Officer from 2008 to Sept. 2016.
5. Working as Library Officer since 2008 onwards.
6. Worked as Desert Botanic garden In-charge from Oct. 2001 to 2011.
7. Worked as Herbarium In-charge from 2002 to 2015.

Number of Projects carried out : 6 projects

- a. Individual : 3
- b. Jointly : 1 (ongoing)
- c. Collaborative : 2
- d. Contributed
 - 1. Flora Kerala State : 2 (Vol. 1 & 2)
 - 2. Flora of Gujarat State : 3 (Vol. 1, 2 & 3)
 - 3. Flora of India : 2 (Vol. 9 & 18)

No. of paper published : 33 (27 National & 6 International).

- a. Individually /first author : 12
- b. Jointly/Co-author : 21

Accepted for publication – 07

No. of new reports : 51 new records for Gujarat & 02 for Rajasthan State.

FUTURE WORK PLAN

- Flora of Shoolpaneshwar WLS, Narmada, Dist. Gujarat: the report will be submitted (March, 2017).
- Jambhoghoda WLS, Chootaudaipur Dist. Gujarat State or Flora of Valsad Dist. (2017-19)
- To prepare ATLAS of Rare and Threatened plant species of arid and semi-arid environs and their conservation strategies & management.
- Exploration of the unexplored areas of the arid and semi-arid regions and filling of the gap areas of the Flora including PAN areas.
- Collaborative projects can be initiated with other Dept./Organizations.
- Supervision of the Research Scholars for Ph.D. Degree.



THANKS