

Ph.D.Thesis

- **Title:**“Ethnobotany of Phulbani district, Orissa”
- **Project:**All India Coordinated Research Project on Ethnobiology(AICRPE)at BSI, Howrah(1983-87)
- **Univ :**VISVA-BHARATI Univ., Santiniketan (1988)
- **Supervisors:** Late Dr. Viswanath Mudgal (BSI) & Prof. Swapan K. Datta (Univ.)
- **Fellow:**JRF (1983-86) & SRF (1986-87) of MoEF funded project of at BSI, Hqrs., HOWRAH

AAP Projects (1987-2002)

- **Project:** Collection and documentation of Herbarium specimens
- **Status:** Joint project
- **Work place:** BSI-Cryptogamic section (1987-1988);
BSI-CNH (1989-1994 & 2001-2002); BSI-CBL (1995-1999);
BSI- ISIM (2000-2001).
- **Notable Achievements:**
 - i. Flora of West Bengal state: Family Juglandaceae, Betulaceae.
 - ii. Ethnobotanical field tour in Ranchi, Jharkhand
 - iii. Plant specimen collection field tour in Raygada, Odisha
 - iv. Museum sample collection tour in Malda, W.B.

AAP Projects (2003-2007)

- **Project:** Collection and documentation of Herbarium specimens
- **Title:** “Botany of Tendong Reserve Forest, South Sikkim”
- **Status:** Individual projects
- **Work place:** BSI-Sikkim Himalaya Regional Centre, GANGTOK
- **Notable Achievements:**
 - i. Collected, documented the plant specimens in Herbarium ; compiled and written the mss.(ca.400pg) on “Botany of Tendong Reserve Forest, South Sikkim”
 - ii. Plant specimen collected by field tour in North and East Sikkim regions and documented in Herbarium (SHC).

AAP Projects (2008-2017)

- **Project:** Collection of Economic plant materials for enrichment and replacement of exhibits in Botanical Gallery
- **Status:** Individual project
- **Work place:** BSI- Industrial Section, Indian museum, KOLKATA
- **Notable Achievements:**
 - i. Field tours (**11 nos.**) undertaken in Ranchi, Lohardaga, Palamau & Giridih district of Jharkhand; Koraput, Raygada, Bargarh & Bolangir district of Odisha for collection of **310** samples of plant materials (Cereals, Pulses, Oilseeds, medicinal samples, etc.) as exhibits and display in Botanical Gallery
 - ii. Documentation of herbarium specimens of family MALVACEAE collected by Sir George Watt (**1877-1914**)

Administrative work(2003-2007)

- **Work place:** BSI-Sikkim Himalaya Regional Centre, GANGTOK
- **Assignments:**
 - i. Attention to the researchers and student visitors
 - ii. Supervision on maintenance and documentation of Herbarium (SHC) specimens
 - iii. Supervision on maintenance of live plants in green houses
 - iv. Duties of DDO, Library affairs, *Rajbhasa*, Store purchase, Vehicle affairs, etc.

Administrative work(2008-2017)

- **Work place:** BSI-Industrial Section,IM,KOLKATA
- **Scanning Digitization :**
Monitoring and supervision of digitization task of above 35,000 samples of archival document(official correspondences, papers, etc.) preserved at ISIM since 1910.
- **Photographic Digitization (Rare holdings):**
Monitoring and supervision of digitization task of archival rare holdings:
T. Wardle's Natural Dyes samples(above 2600 nos.);
J.F.Watson's Textile designs samples(above 700 nos.),
Botanical paintings samples (above 200 nos.) preserved at ISIM since 1866.
- **Photographic Digitization (Herbarium):**
Monitoring and supervision of digitization task of above 9000 sheets of Herbarium specimens at BSIS preserved since 1890.

Administrative work(2008-2017)

- **Work place:** BSI-Industrial Section,IM,KOLKATA
- **Renovation & Restoration of ISIM building:**
 - i. Monitoring and supervision of the task executed by the NBCC : Botanical Gallery (IInd floor); New Gallery on Natural History(IIIrd floor) and adjacent area(Ist floor, Ground floor, etc.)
- **Technical Reports, Seminar , Visitors & others:**
 - i. Arrangement of Review, Monitoring & Technical committee meetings and preparation of its proceeding reports
 - ii. Arrangement of BSI-Scientific Seminars at IM campus (2014,2015,2016)
 - iii. Attention to the Researchers ,visitors & dignitaries at Botanical Gallery at IM campus
 - iv. Duties of DDO(2008-12); Monitoring of Library affairs(2013-17), *Rajbhasa* affairs ,Purchase committee, etc.

Research contributions: summary

- **Research Projects:** Individual (2);Joint(6)
- **Books written:** Self (2);Joint(2);Contributory(8)
- **Paper published:** Individual (5);Joint(26)
- **Editorial Board member (2008-10;2014-16):**
“Ethnobotany”(International journal of the Society of Ethnobotanists,Lucknow)

Future Research programme

- **Search for New economic plants of India:**

“Plants related to or serving.....use of aboriginals in the tribal regions of.....may be utilized...to **develop ethno-botanical studies –a neglected phase of Botany in India**.....The story of cinchona.....civilized man has learnt of plant use from his more primitive brother.”

-**E.K.Janaki Ammal**(1954)

“The scope and Functions of the reorganised BSI”
Science and Culture 20(6).p.280

- **Ethno-botanical studies in India:**

- i. Ethnobotanical documentation and publication of data “**State-wise**” in India by BSI
- ii. Ethnobotanical documentation and publication of data “**Ethnic-wise**” in India by BSI

BSI-Ann.Sc.meet-2017

AAP Projects (2003-2007); Work place: BSI-Sikkim Himalaya Regional Centre, **GANGTOK**

Tasangu Lake (alt:above 10,000ft)



Meimenchu Lake (alt:above 12,000ft)



BSI-Ann.Sc.meet-2017

AAP Projects (2003-2007); Work place: BSI-Sikkim Himalaya Regional Centre, **GANGTOK**

Satyrium nepalense -white
(alt:above 8,000ft)



Satyrium nepalense -pink
(alt:above 8,000ft)



BSI-Ann.Sc.meet-2017

AAP Projects (2003-2007); **Work place:** BSI-Sikkim Himalaya Regional Centre,
GANGTOK

Potentilla fruticosa
(alt:above 10,000ft)



Potentilla microphylla
(alt:above 12,000ft)



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AAP Projects (2003-2007); Work place: BSI-Sikkim Himalaya Regional Centre,
GANGTOK

Cyananthus lobatus
(alt:above 8,000ft)



Cyananthus incanus
(alt:above 10,000ft)



AAP Projects (2008-2017); Work place: BSI- Industrial Section, Indian museum,
KOLKATA

Clitoria ternatea

RT paste in Elephantiasis



Clitoria ternatea- white

FL used in spiritual cure



AAP Projects (2008-2017); Work place: BSI- Industrial Section, Indian museum, **KOLKATA**

Traditional healers in Lohardaga

Livelihood with 'Sal' leaves



BSI-Ann.Sc.meet-2017

AAP Projects (2008-2017); Work place: BSI- Industrial Section, Indian museum, **KOLKATA**

**Leafy –vegetables on sale
in village market**



Edible Leaf –buds on sale



BSI-Ann.Sc.meet-2017

AAP Projects (2008-2017); **Work place:** BSI- Industrial Section, Indian museum, **KOLKATA**

Botanical Gallery (2014)

Botanical Gallery (2016)



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AAP Projects (2008-2017); Work place: BSI- Industrial Section, Indian museum, **KOLKATA**

Review meet (2016)



Visitors in Botanical Gallery



Felicitation with **Dr. S.K.Jain medal** **(2014)** on “ETHNOBOTANY”





BSI-Ann.Sc.meet-2017

Presentation by **Dr. A.K.SAHOO**, BSI-ISIM, KOLKATA

Thank You