



भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

EW 096394 973 111



सत्यमेव जयते

स्पीड पोस्ट / SPEED POST



भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

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साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइलसंख्या/File No.: BSI-286/1 (Parl.)/2024/Tech./ 2351

दिनांक/Date : 29.07.2024
31

सेवामें / To

The Secretary
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan, Jor Bagh Road
New Delhi-110003

विषय / Sub: Lok Sabha Unstarred Question No.4133 for 02/08/2024 regarding 'Ayush Medicinal College and Institutes'-reg.

महोदया / Madam,

With reference to the email dated 29.07.2024 on the question 'Ayush Medicinal College and Institutes' under Question Diary No. 4133, I am directed to furnish the following information for your kind perusal:

- The details of the total number of established AYUSH Medical Colleges/Educational Institutes established since 2014 in the country and proposed to be established, State/UT-wise and district-wise, category-wise particularly in Rajgir, Nalanda of Bihar and Rajasthan;
Answer: Not applicable.
- Whether any measures are being taken by the Government to increase the number of AYUSH medical colleges in the country;
Answer: Not applicable.
- The details of the financial support being provided by the Government for upgrading infrastructure in AYUSH medical colleges in the country;
Answer: Not applicable.
- Whether there has been an increase in the number of seats in the graduation and post-graduation courses in the field of AYUSH education in the country and if so, the details thereof, State/UT-wise;
Answer: Not applicable.
- Whether it is a fact that lot of Ayurvedic plants are available in Panch-Pahari region of Rajgir and if so, the details thereof; and
Answer: Not applicable.
- Whether Government has any plans to develop resources in the district of Rajgir of Bihar in this regard, if so, the details thereof and if not, the reasons therefore;
Answer: Not applicable.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय / Yours sincerely,

(उमेशकुमार ल. तिवारी / Umeshkumar L. Tiwari)

वैज्ञानिक डी / Scientist 'D'

For, (प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

प्रेषित / DESPATCHED

TECHNICAL SECTION
DISPATCHED
No. T-1486
Date: 31.07.2024

7/2024
Azeem
Amrit Mahotsav

01/08/2024





सत्यमेव जयते

स्पीड पोस्ट / SPEED POST



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA
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फाइलसंख्या/File No.: BSI-286/1 (Parl.)/2024/Tech. / 2354

दिनांक/Date : 31.07.2024

सेवामें / To

The Secretary
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan, Jor Bagh Road
New Delhi-110003

विषय / Sub: Lok Sabha Unstarred Question No.1862 for 02/08/2024 regarding 'Research and Development of Medicinal Plants in Harayana'-reg.

महोदय / Sir,

With reference to your email dated 29.07.2024 on the above mentioned subject, I am furnishing herewith the point wise information for your kind perusal and necessary action:

a) Whether the Government has set up any research and development on medicinal plants in the country, State/UT-wise;

Answer: Yes, Sir. Presently various Research Institutes/ Centres/ units of different Research councils under Ministry of AYUSH, Govt. of India have been established and engaged in Medicinal and Aromatic Plants across the country.

1. NMPB, Ministry of AYUSH under its scheme on 'conservation, Development and Sustainable management of Medicinal and Aromatic Plants' provides project based on financial support to carry out research activities on various aspects of Medicinal and Aromatic Plants of Government
2. CSIR and ICAR conduct basic and applied research on medicinal plants.
3. BSI looks after its botanical garden all around the country and executes ex-situ conservation of medicinal plants through collection, introduction, multiplication and conservation of important indigenously wild plants including Medicinal and Aromatic Plants.
4. Through ABG scheme BSI funds different colleges and universities across India to conserve Medicinal and Aromatic Plants in their Botanic Garden.

b) If so, the details thereof, State/UT-wise;

Answer: This question does not pertain to BSI.

c) Whether the Government proposes to set up any research centre in Haryana particularly in Sonapat Lok Sabha Constituency

Answer: This question does not pertain to BSI.

d) if so, the details thereof alongwith the projects being run with respect of medicinal plants in this regard; and

Answer: This question does not pertain to BSI.

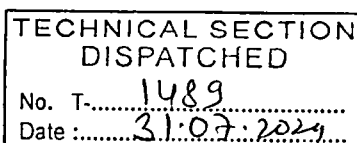
e) If not, the reasons therefore?

Answer: This question does not pertain to BSI.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय / Yours sincerely,



(उमेशकुमार ल. तिवारी / Umeshkumar L. Tiwari)

वैज्ञानिक डी / Scientist 'D'

For, (प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

Email

Technical Section BSI

Lok Sabha Unstarred Question Diary No. 4133 for 02.08.2024 regarding "AYUSH Medical College and Institutes".

Dr. Sunil Dutt
19/08/24
29/7/24

From : SunilDutt
ResearchOfficer(Medicni
alPlants/Agro)
<romps.nmpb@gov.in>

Mon, Jul 29, 2024 11:22 AM

1 attachment

Subject : Lok Sabha Unstarred
Question Diary No.
4133 for 02.08.2024
regarding "AYUSH
Medical College and
Institutes".

To : Sujit Kumar Bajpayee
<sujit.baju@gov.in>,
pccfbihar@gmail.com,
Ashiho Asosii Mao
<hq@bsi.gov.in>,
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versity.in, asism ju
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Cc : Murugeswaran R
<dr.muruges.h.nmpb@g
ov.in>,
conservationdesk@gmai
l.com

MOST URGENT

Madam / Sir,

Kindly see the attachment on the subject cited Question.

It is requested to kindly furnish the information for **part (e) and (f)** of the said question to this office by 01:00 PM today.

With regards,

Sunil Dutt

Research Officer (Medicinal Plants/Agronomy)

National Medicinal Plants Board (NMPB),
Ministry of Ayush, Government of India,
Indian Red Cross Society (IRCS) Annexe Building,
1st Floor, 1 Red Cross Road, New Delhi-110001.

Tel : **011-23721836**, Email: **romps.nmpb@gov.in**, Website :

<https://www.nmpb.nic.in/>

#AYUSH#ZindagiRaheKhush

75
Azadi Ka
Amrit Mahotsav



**Lok Sabha Unstarred Question Diary No.4133 for
- 02.08.2024.pdf**
438 KB

F.No.H-11016/93/2024-AEP(1)

भारत सरकार
Government of India
आयुष मंत्रालय
Ministry of Ayush

AYUSH BHAWAN,
B-Block, GPO Complex,
INA, New Delhi – 110 023
Dated: 24.07.2024

OFFICE MEMORANDUM

Subject: Lok Sabha Unstarred Question Diary No.4133 for 02.08.2024 regarding "AYUSH Medical College and Institutes".

AEP(1) Section, Ministry of Ayush has received Lok Sabha Unstarred Question Diary No.4133 for 02.08.2024 on the above cited subject (Copy enclosed).

2. It is requested that relevant information may please be furnished to undersigned urgently by 26.07.2024 forenoon. A soft copy (MS Word Format) may please be e-mailed to ep1section-ayush@gov.in.
3. NIL reply may also be furnished.
4. This may be treated as MOST URGENT.

Encl: As above

ML Meena
24/7/2024
(Madan Lal Meena)
Under Secretary to the Govt. of India
Ph. No.: 011-24651976/80

To,

1. Director, Directorate of Ayush, Govt. of Bihar/ Rajasthan
2. CEO, NMPB, New Delhi
3. Secretary, NCISM/NCH, New Delhi
4. DG, CCRAS/CCRH/CCRUM/CCRS
5. Ayurveda Section/Unani & Siddha Section/ Homoeopathy Section/ Y&N Cell/ AEP-II Section/ EP-III Section/ P&E Section/All Scheme Section/ NAM Section/ ADS/ DCC/ CDN Section/IC Section/ IES , M/o Ayush

Copy to: PPS to JS (BKS) for information.

LOK SABHA

Ministry: AYUSH

Sitting on: 02/08/2024

Question Type: UNSTARRED

D.No : 4133

AYUSH Medical College and Institutes

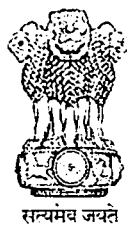
Will the Minister of AYUSH

- (a) the details of the total number of established AYUSH Medical Colleges/Educational Institutes established since 2014 in the country and proposed to be established, State/UT-wise and district-wise, category-wise particularly in Rajgir, Nalanda of Bihar and Rajasthan;
- (b) whether any measures are being taken by the Government to increase the number of AYUSH medical colleges in the country;
- (c) the details of the financial support being provided by the Government for upgrading infrastructure in AYUSH medical colleges in the country;
- (d) whether there has been an increase in the number of seats in the graduation and post-graduation courses in the field of AYUSH education in the country and if so, the details thereof, State/UT-wise;
- (e) whether it is a fact that lot of Ayurvedic plants are available in Panch-Pahari region of Rajgir and if so, the details thereof; and
- (f) whether Government has any plans to develop resources in the district of Rajgir of Bihar in this regard, if so, the details thereof and if not, the reasons therefor?

24/7/24

AEPI / US(MLM) / Dir(CAC)

CC JS(BVS)



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA
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फाइल संख्या/ File No.: BSI- 286/1 (Parl.) / 2023 -Tech. / 1411/2338 . दिनांक/Date: 26th July, 2024

सेवा में / To

The Secretary
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan, Jor Bagh Road
New Delhi - 110003

(Kind attention: ~~Dr.~~ Dr. R. Murugeswaran, Deputy Advisor (Medicinal Plants, NMPB, Ministry of Ayush)

Subject: Lok Sabha Starred Question Diary No. 3681 for 02/08/2024 regarding 'AYUSH Research in Ayurveda College' - reg.

महोदया / Madam,

With reference to the email dated 25.07.2024 from the National Medicinal Plants Board, Ministry of Ayush in connection to the Lok Sabha Starred Question Diary No. 3681 for 02/08/2024 regarding 'AYUSH Research in Ayurveda College', I am directed to furnish herewith the following information for your kind perusal and necessary action as follows:

(a) whether the Government is aware that as per botanical survey, there are more than 2200 medicinal plants in the Gandhamardan mountain in the district of Bargarh in Odisha;

Answer: As per the available literature, which was done in 2009, a total number of 912 vascular plants are found in the Gandhamardan Hills of Bargarh, Odisha, out of which 125 species are classified as important medicinal plants while 220 species are quasi medicinal plants.

(b) if so, the details thereof;

Answer: As enclosed

(c) whether it is a fact that Ayurvedic college situated in Nrusinghnath in this area is playing a vital role in research work of these medicinal plants;

Answer: No information in this regard is available with BSI.

(d) if so, the details thereof;

Answer: Not Applicable to BSI

(e) whether the Government has any plan to take over this college, and

Answer: No information in this regard is available with BSI.

(f) if so, the details thereof and if not, the reasons therefor?

Answer: Not Applicable to BSI

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

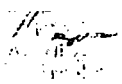
भवदीय/ Yours sincerely

(एस. एस. दाश / S. S. Dash)

वैज्ञानिक एफ / Scientist 'F'

(प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

Encl: Pattanaik, C. and Reddy, C.S. 2009. An assessment of floristic diversity of Gandhamardan hill Range, Orissa, India. *Bangladesh Journal of Plant Taxonomy* p. 29-36



AN ASSESSMENT OF FLORISTIC DIVERSITY OF GANDHAMARDAN HILL RANGE, ORISSA, INDIA

C. SUDHAKAR REDDY¹ AND CHIRANJIBI PATTANAİK¹

*Forestry and Ecology Division, National Remote Sensing Centre,
Hyderabad 500 037, Andhra Pradesh, India.*

Keywords: Floristic diversity; Gandhamardan hill range; Life-form; Medicinal plants; Orissa.

Abstract

The plant resources of Gandhamardan hill range were studied and analysed. A total of 912 vascular species belonging to 556 genera under 142 families were recorded. Herbs dominate the flora followed by trees, climbers and shrubs. Dominance of phanerophytes indicates the tropical moist and humid climate. Proper conservation and management plans are needed to save the natural resources, especially medicinal plants, of this sacred hill range.

Introduction

Knowledge of forest structure and floristics are necessary for the study of forest dynamics, plant-animal interactions and nutrient cycling. An aspect that has generated considerable attention for many years among ecologists as well as evolutionary and conservation biologists has been the analysis of the patterns, causes and maintenance of biological diversity in the tropics (Gentry, 1988; Huston, 1994). More recently, there has been an awareness of and an increasing interest in understanding the variation in species diversity within the tropics (Gentry, 1982, 1995). Tropical moist deciduous forests are the most diverse from the floristic point of view.

Gandhamardan hill range is such a tropical moist deciduous system in Orissa, India. Due to diversified topography with twenty-two perennial streams, the hill range having most congenial environment for the luxuriant growth of plant resources. These resources are under severe threat due to over-exploitation by the local people for collection of firewood, fodder and medicinal plants and heavy incidence of grazing. Some sporadic works on floristic and ethnobotanical studies were carried out earlier (Raju, 1960; Panigrahi *et al.*, 1964; Brahmam and Saxena, 1990a, b; Mishra *et al.*, 1994, 2001; Misra and Behera, 1998; Mishra and Das, 2003; Misra, 2004). But, this floristically rich hill range with varied terrain conditions and environmental factors along with its phytogeographical position was not explored well in the past.

The present study is, therefore, the first attempt to make an inventory and analysis of the entire flora of Gandhamardan hill range based on copious field observations, available literature and herbarium data, with a view to contribute to the overall knowledge of Gandhamardan flora and to the management of this sacred hill range.

¹ Corresponding author. Salim Ali Centre for Ornithology & Natural History, Deccan Regional Station, 12-13-588/B, Nagarjuna Nagar Colony, Tamaka, Hyderabad 500 017, Andhra Pradesh, India.
E-mail: jilu2000@rediffmail.com

Materials and Methods

Gandhamardan hill range (between 20°42' and 21°00' N latitude and 82°41' and 83°05' E longitude) stretches over 240 km² area in Bargarh and Bolangir districts of Orissa, India. The hills are believed to be of ancient age and sacred because legend says, when Hanuman carried the mountain from Himalayas to Sri Lanka in search of *Sanjivani*, some part of it fell down in Orissa. There are two temples (Nrusinghnath and Harishankar) of 11th century based in the foothills on the northern and southern parts of the plateau on the bank of two perennial streams. The hill ranges are composed of a cluster of hills with altitude varying between 600 and 1005 m. Bender, Butel, Chalidilli, Chhatradandi Gandhamardan, Potpani and Thuta are the prominent hills in this area. The range stands as a natural barrier at the border of Bolangir and Bargarh districts of Orissa (Fig. 1). This

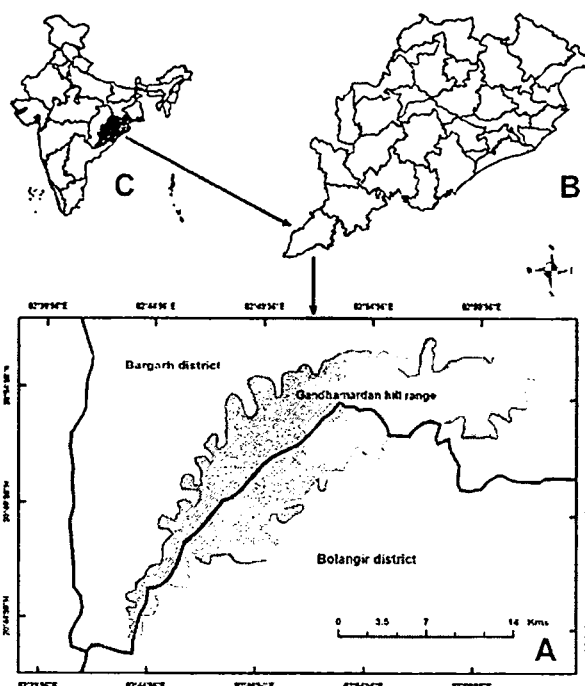


Fig. 1. Map of the Gandhamardan hill range (A), the study area, in Orissa (B), India (C).

area enjoys tropical monsoon climate. The mean annual rainfall ranges between 1250 and 1400 mm. The rainfall in the hill region and temperate climate facilitate tropical deciduous forest with a good number of medicinal plant species. Normally the rain depends on north-east monsoon. The maximum temperature goes up to 37°C in summer (April-May) whereas the minimum falls to 12°C in winter (December-January). The humidity is relatively high. The rock formation is archaic metamorphic called 'Khondalite' to high-level laterite (Pandey and Chatterjee, 1984).

The present study was carried out during 2004-2006. Data on taxon distribution within the Gandhamardan hill range were collected mainly from two sources: field observations and collection of specimens, and literature, while only in a few cases data were assembled from the Herbarium of Regional Research Laboratory (RRL-B). The majority of field observations were carried out from 2004 to 2006 during multiple field trips throughout each growth season. Accordingly, information on habit, habitat, flowering, fruiting period, etc. was recorded. Collection of plant specimens was carried out in both dry and wet seasons to know more information on habitat. The specimens collected were deposited in herbarium of RRL-B. The identification of specimens was carried out by consulting relevant literature (Patro, 1993; Saxena and Brahmam, 1995; Misra and Das, 1998, 2004) and regional floras (Gamble and Fischer, 1915-35; Haines, 1921-25; Mooney, 1950; Saxena and Brahmam, 1996). Life-form categories were identified according to Raunkiaer's system of classification (Raunkier, 1934).

Results and Discussion

Floristic composition: The floristic composition of the hill is remarkable in its diversity and luxuriance. Altogether, 912 vascular plant taxa pertaining to 142 families and 556 genera were collected. The dicotyledonous plants belonged to 106 families, 418 genera and 685 species, and the monocotyledonous plants to 21 families, 122 genera and 206 species. Pteridophytes were represented by 21 species belonging to 15 families and 16 genera. Analysis of flora shows a comparatively higher representation of herbaceous species (519) followed by 173 trees, 119 climbers and 101 shrubs.

In comparison with the Orissa flora (total area 155,707 sq km) consisting of 2727 species (Saxena and Brahmam, 1996), 33.4% of species were recorded in the present study area. The recorded genera of the Gandhamardan flora were 52.4% of the Orissa flora, whereas the families covered 62.3%. A total number of 776 indigenous wild species, 64 introduced wild species and 72 cultivated species were found in the area. The species to genera ratio was 2.6 in Orissa flora, whereas it was 1.6 in the present study. The ratio of genera and family in the Gandhamardan flora was 3.9, whereas the value of the Orissa flora was 4.7. This indicates higher taxonomic diversity of the study area. Pielou (1975) and Magurran (1988) pointed out that, in intuitive terms, hierarchical (taxonomic) diversity will be higher in an area in which the species are divided amongst many genera as opposed to one in which most species belong to the same genus, and still higher as these genera are divided amongst many families as opposed to a few.

A comparison of ten dominant families in the Gandhamardan flora with those of the floras of Sambalpur (Panda and Das, 2004), Bihar and Orissa (Haines, 1921-25) and British India (Hooker, 1872-97) shows a close resemblance among each other (Table 1). Here Caesalpiniaceae (Caesalpinioidae), Papilionaceae (Faboidae) and Mimosaceae (Mimosoidae) are treated as subfamilies under Leguminosae. The relative position of

Leguminosae and Gramineae (Poaceae) are almost same in all the works. Scrophulariaceae, Apocynaceae and Malvaceae of the present work do not comply with the first ten families of the Flora of British India (Hooker, 1872-97) where Orchidaceae and Utricaceae are occupying the first and the last positions. Nine dominant families of the present work, except Leguminosae, are phylogenetically advanced and except Euphorbiaceae, all are herb-dominating. The prevalence of microclimatic conditions provided suitable habitats for herb-dominating flora. Euphorbiaceae was represented in this flora with 45 species of which 26 are trees and shrubs. They are mostly deciduous and majority of them contain latex. Leguminosae is one evenly distributed family with trees, shrubs, annual and perennial herbs, climbers and lianas. Most of the families represented in this flora are mainly tropical in distribution. In addition to this, a few temperate families such as Caryophyllaceae, Melastomataceae, Ranunculaceae and Violaceae were also found.

Table 1. Comparison of ten dominant angiospermic families in the Gandhamardan flora from the present study with the floras of Sambalpur, Bihar and Orissa, and that of British India.

Gandhamardan Flora (present study)	Sambalpur Flora (Panda and Das. 2004)	Bihar and Orissa (Haines. 1921-1925)	British India (Hooker, 1872-1897)
Leguminosae	Leguminosae	Leguminosae	Orchidaceae
Gramineae	Gramineae	Gramineae	Leguminosae
Euphorbiaceae	Euphorbiaceae	Cyperaceae	Gramineae
Rubiaceae	Compositae	Compositae	Rubiaceae
Compositae	Cyperaceae	Euphorbiaceae	Euphorbiaceae
Cyperaceae	Acanthaceae	Acanthaceae	Acanthaceae
Acanthaceae	Rubiaceae	Orchidaceae	Compositae
Scrophulariaceae	Scrophulariaceae	Rubiaceae	Cyperaceae
Apocynaceae	Labiatae	Labiatae	Labiatae
Malvaceae	Verbenaceae	Scrophulariaceae	Utricaceae

Exactly 50% of the recorded taxa belonged to only 13 species-rich families. The largest families in terms of number of species were Poaceae (90), Papilionaceae (68), Euphorbiaceae (45), Rubiaceae (41), Asteraceae (36), Cyperaceae (35), Acanthaceae (30), Caesalpiniaceae (20), Scrophulariaceae and Apocynaceae (each with 19 species). A total of 15 species of orchids belonging to 10 genera were also recorded. At genus level, *Ficus* showed the maximum diversity with 14 species. This was followed by *Cyperus* (11), *Cassia* (9), *Blumea* (8), *Bauhinia*, *Grewia*, *Hedyotis*, *Indigofera* (each with 7 species), *Acacia* and *Alysicarpus* (each with 6 species). Analysis of flora shows that most of the genera (388) are represented by single species and a very few genera are represented by more number of species. *Asparagus gonoclados* Baker, *Corchorus trilocularis* L., *Enicostema axillare* (Lam.) A. Raynal and *Triumfetta rotundifolia* Lam. were recorded new to the Flora of Orissa. *Erythrina resupinata* Roxb., *Heterostemma*

tanjorensis Wight & Arn. and *Tylophora fasciculata* Buch-Ham. ex Wight & Arn. are the unique species found in the study area, which are not sighted elsewhere in Orissa. There were 64 invasive exotic species also found, which will be serious threat to the forest ecosystem in the future. Important among them are *Ageratum conyzoides* L., *Chromolaena odorata* (L.) R. King & H. Robins., *Crotalaria pallida* Ait., *Hyptis suaveolens* (L.) Poit., *Lantana camara* L., *Mimosa pudica* L., *Parthenium hysterophorus* L. and *Triumfetta rhomboidea* Jacq.

The upper storey of the vegetation was covered by tall trees with epiphytic growth of lichens, bryophytes, ferns and orchids. It was interesting to note that *Shorea robusta* Gaertn. f., a common species in other parts of Orissa, showed sporadic distribution in the study area. Some of the shrubs e.g., *Ardisia solanacea* Roxb., *Flemingia macrophylla* (Willd.) Prain ex Merr., *Indigofera cassioides* Rottl. ex DC., *Leea asiatica* (L.) Ridsdale and *Morinda citrifolia* L., were found to grow in dense and interior forests. The bamboo species *Dendrocalamus strictus* (Roxb.) Nees. also occupied considerable part of the area. Herbs were mostly distributed all over the hill range, which includes open and dense forests, along the streams, top of the hills with grasses and forest road sides. A good number of lianas and woody climbers were present in the hill range, such as *Bauhinia vahli* Wight & Arn., *Calycopteris floribunda* Lam., *Combretum albidum* G. Don., *Cryptolepis buchanani* Roem. & Schult., *Entada pursaetha* Spreng., *Hemidesmus indicus* (L.) R. Br., *Smilax zeylanica* L., *Toddalia asiatica* (L.) Lam., and *Ventilago madraspatana* Gaertn. Epiphytes were less in number. *Vanda testacea* (Lindl.) Reichb. f. and *V. tessellata* (Roxb.) Hook. ex G. Don. were two common epiphytic orchids found on branches of most tall trees. Four root parasites (*Aeginetia indica* L., *Melasma thompsonii* (Hook. f.) Wettst., *Sopubia delphiniifolia* (L.) G. Don. and *Striga angustifolia* (D. Don) Saldanha) and two stem parasites (*Dendrophthoe falcata* (L. f.) Etting and *Viscum articulatum* Burm. f.) were also recorded from the study area. The extensive flat plateau on the top of the hills running through the whole length of the Gandhamardan range presented a grassland formation with luxuriant growth of various grass species attaining 2-3 m in height. The grassland comprises of *Arthraxon lancifolius* (Trin.) Hochst., *Capillipedium assimile* (Steud.) A. Camus., *Cymbopogon martini* (Roxb.) Wats., *Heteropogon contortus* (L.) P. Beauv. ex Roem. & Schult. and interspersed with stunted growth of *Lagerstroemia parviflora* Roxb., *Phyllanthus emblica* L., *Pimpinella heyneana* (Wall. ex DC.) Kurz. and *Woodfordia fruticosa* L. Kurz.. Weeds such as *Borreria stricta* Roth ex Roem. & Schult., *Cleome monophylla* L. and *Mollugo pentaphylla* L. were common. *Celosia argentea* L. (introduced) is a weed of great nuisance in the abandoned fields near Borasambar, Paikmal and Harishankar.

Life-form analysis: The life-form spectrum in the present study showed predominance of phanerophytes (349 spp., 38.3% of the recorded species), followed by therophytes (298 spp., 32.7%), geophytes (128 spp., 14%), hemi-cryptophytes (119 spp.,

13%) and chamaephytes (18 spp., 2%). Majority of annuals were winter species or cool season species; some were hot-weather species, and a few were non-seasonal species responding to rainfall at any time of the year (e.g., *Tribulus terrestris* L.). The dominance of shrubby species over the grasses when water is limited, as in this area, can be explained by their extensive root system, which is capable of utilizing water stored at different soil depths, whereas grasses utilize the transient water stored in the upper soil synchronic with precipitation pulses. Besides the spatial variations in the species composition of plant communities, the composition of life forms reflected the response of vegetation to variations in certain environmental factors. In this study, the dominance of phanerophytes followed by therophytes over the other life forms seemed to be a response to the prevailing tropical moist and humid climate and biotic interference. The phanerophytes included trees, large woody shrubs, perennial herbs and woody climbers. Therophytes (annuals) are drought evaders in the sense that the whole plant sheds during unfavourable conditions. Moreover, the high proportion of therophytes in this study was also attributed to human activities (Raunkier, 1934).

Medicinal plant exploration: Gandhamardan hill range is also known as 'Ayurvedic paradise' and treasure house for potential medicinal plant species not only for Orissa but also for India. More than 300 plant species were found in the area with medicinal properties. These are depleting rapidly because of unsustainable harvesting, lack of awareness, and unrestricted grazing by domestic animals from nearby villages (Panigrahi, 1963; Pattanaik and Reddy, 2007). Nonetheless, many people from far and wide come to this area to collect medicinal plants and share their knowledge on medicinal uses of these plants. Major medicinal plant species, such as *Asparagus racemosus* Willd., *Celastrus paniculata* Willd., *Chlorophytum arundinaceum* Baker, *Costus speciosus* (Koenig) Sm., *Curculigo orchoides* Gaertn., *Curcuma angustifolia* Roxb., *Gloriosa superba* L., *Gymnema sylvestre* (Retz.) R. Br. ex Schult., *Plumbago zeylanica* L., *Rubia cordifolia* L. and *Tinospora cordifolia* (Willd.) Hook.f. & Thoms., were harvested in bulk for preparation of medicines by the local people. Unsustainable collection of above medicinal plants has placed them in threatened and vulnerable categories in Conservation Assessment and Management Plan (CAMP) of Orissa.

Conservation measures: In the prevailing situation, conservation of plant resources is very important, as many of these plants, for example *Asparagus gonocladus* and *Enicostema littorale* Blume, have been reduced to a greater extent. Therefore, sustainable utilization of medicinal plants is an urgent demand of the hour. Sustainable wild collection with fair trade would help to conserve the natural resources of the Gandhamardan hill range. Piloting of farmer-based cultivation trials for a selected number of threatened and indigenous medicinal plant species on the edges of forests and in home gardens should be encouraged. The state Forest Department should initiate *in situ* as well as *ex situ* conservation practices by promoting nurseries, home garden and

plantation. The state government should promote Village Management Committee (VMC) and Conservation Area Management Committee (CAMC) to protect the forests from denudation. Community mobilization and creating awareness on sustainable harvesting of plant parts among the local people of the surrounding villages must be done at priority level. The local non-government organisations (NGOs) should promote participatory research in breeding and participatory knowledge management involving scientists, government officials and tribal families. The Forest and Environment Department should establish linkages with markets, so that the cultivation of medicinal plants becomes market-driven, with assured income security for tribal families. Unrestricted movement of pilgrims all around the adjoining forest areas near to the temple are causing loss of plant species. It is necessary to improve the socio-economic conditions of people living around the hills to minimize the anthropogenic activities in order to prevent depletion of natural resources of this sacred hill range.

Acknowledgements

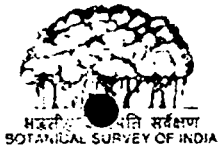
The authors are grateful to Dr S.N. Prasad, Senior Principal Scientist, SACON, Deccan Regional Station, Hyderabad and Director, NRSA, Hyderabad for their encouragement and providing facilities to carry out the work. We thank to the herbarium staff of Regional Research Laboratory for helping with identification of species. The study was undertaken with financial assistance from the Department of Biotechnology and Department of Space, Government of India in form of a research project entitled Biodiversity Characterization at Landscape Level in Eastern Ghats of India using remote sensing and GIS.

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(Manuscript received on 26 May 2008; revised on 24 March 2009)



भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

FW 696159856 EN



सत्यमेव जयते

स्पीड पोस्ट / SPEED POST



भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

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साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI- 286/1 (Parl.) / 2023 -Tech.

दिनांक/Date: 26th July, 2024

सेवा में / To

The Secretary

Ministry of Environment, Forest and Climate Change

Indira Paryavaran Bhawan, Jor Bagh Road

New Delhi - 110003

(Kind attention: Dr. Dr. R. Murugeswaran, Deputy Advisor (Medicinal Plants, NMPB, Ministry of Ayush)

Subject: Lok Sabha Starred Question Diary No. 3681 for 02/08/2024 regarding 'AYUSH Research in Ayurveda College' - reg.

महोदया / Madam,

With reference to the email dated 25.07.2024 from the National Medicinal Plants Board, Ministry of Ayush in connection to the Lok Sabha Starred Question Diary No. 3681 for 02/08/2024 regarding 'AYUSH Research in Ayurveda College', I am directed to furnish herewith the following information for your kind perusal and necessary action as follows:

(a) whether the Government is aware that as per botanical survey, there are more than 2200 medicinal plants in the Gandhamardan mountain in the district of Bargarh in Odisha;

Answer: As per the available literature, which was done in 2009, a total number of 912 vascular plants are found in the Gandhamardan Hills of Bargarh, Odisha, out of which 125 species are classified as important medicinal plants while 220 species are quasi medicinal plants.

(b) if so, the details of thereof;

Answer: As enclosed

(c) whether it is a fact that Ayurvedic college situated in Nrusinghnath in this area is playing a vital role in research work of these medicinal plants;

Answer: No information in this regard is available with BSI.

(d) if so, the details thereof;

Answer: Not Applicable to BSI

(e) whether the Government has any plan to take over this college, and

Answer: No information in this regard is available with BSI.

(f) if so, the details thereof and if not, the reasons therefor?

Answer: Not Applicable to BSI

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय/Yours sincerely

(एस. एस. दाश / S. S. Dash)

वैज्ञानिक एफ / Scientist 'F'

(प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

Encl: Pattanaik, C. and Reddy, C.S. 2009. An assessment of floristic diversity of Gandhamardan hill Range, Orissa, India. *Bangladesh Journal of Plant Taxonomy* p. 29-36



Email

Technical Section BSI

Fwd: Lok Sabha Starred Diary No. 3681 for 02/08/2024 regarding 'AYUSH Research in Ayurveda college'-reg.

From : Technical Section BSI Mon, Jul 29, 2024 11:35 AM
<tech@bsi.gov.in> 3 attachments

Subject : Fwd: Lok Sabha Starred
Diary No. 3681 for
02/08/2024 regarding
'AYUSH Research in
Ayurveda college'-reg.

To : Dr.Bidhan Mahajon
<dr.bidhan@gov.in>,
Himanshu Dwivedi <rd-
nmpb@govcontractor.in
>, Dr. Priti Singh
<priti.singh@gov.in>

Cc : Ashiho Asosii
<aamao@bsi.gov.in>,
Dr Sudhansu Sekhar
Dash
<ssdash@bsi.gov.in>,
Umeshkumar L. Tiwari
<ukltiwari@bsi.gov.in>

Sir,

In reference to the above subject, it is to inform that the reply was sent from BSI on 26th July, 2024. However, the same is being forwarded herewith once again for your kind perusal and necessary action.

Thanking You,

.....

Email**Technical Section BSI**

**Fwd: Lok Sabha Starred Question no. 165 for
02/08/2024 regarding 'AYUSH Research in Ayurveda
college'-reg.**

From : Technical Section BSI Mon, Jul 29, 2024 10:58 AM
<tech@bsi.gov.in> 3 attachments

Subject : Fwd: Lok Sabha Starred
Question no. 165 for
02/08/2024 regarding
'AYUSH Research in
Ayurveda college'-reg.

To : tigerumesh11
<tigerumesh11@gmail.
com>

.....
**Technical Section
Botanical Survey of India, HQ
Salt Lake City, Kolkata - 700 064**

Emails: *tech@bsi.gov.in ; tech.bsi2021@gmail.com*

From: "Dr.Bidhan Mahajon" <dr.bidhan@gov.in>
To: "Dr(Mr) Himanshu Pathak" <dg.icar@nic.in>, "Ashwani
Kumar" <jsadmn-agri@gov.in>, "Chandra Prakash Goyal"
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Cc: "Prof. Dr. Mahesh Kumar Dadhich" <ceo-nmpb@nic.in>, "Dy. CEO NMPB Mo AYUSH" <dyceo-nmpb@nic.in>, "Murugeswaran R" <dr.murugesw.nmpb@gov.in>, "admn nmpb" <admn.nmpb@gmail.com>, "Mahipal" <mahipal.27@gov.in>, "Mamta Yadav" <mamtayadav.edu@nic.in>, "Himanshu Dwivedi" <rd-nmpb@govcontractor.in>, "SAURABH SHARMA" <saurabh.nmpb@gov.in>, "kavita tyagi" <kavita.tyagi@nic.in>

Sent: Monday, July 29, 2024 10:53:09 AM

Subject: Re: Lok Sabha Starred Question no. 165 for 02/08/2024 regarding 'AYUSH Research in Ayurveda college'-reg.

Most urgent Parliament Starred Question

Sir/Madam,

Please find enclosed **Lok Sabha Starred Qestion no. 165 for 02/08/2024 regarding 'AYUSH Research in Ayurveda college'**. It is requested that the **part-wise information and supplementary note** of the above said

question may kindly be furnished to the undersigned in hard as well as soft copy in MSWORD format (Email: dr.bidhan@gov.in / rd-nmpb@govcontractor.in) latest by **29/07/2024** (FN) **positively**.

From: "Dr.Bidhan Mahajon" <dr.bidhan@gov.in>

To: "Dr(Mr) Himanshu Pathak" <dg.icar@nic.in>, "Ashwani Kumar" <jsadm-n-agri@gov.in>, "Chandra Prakash Goyal" <cpgoyal@nic.in>, "Director General CSIR" <dg@csir.res.in>, "Director General CSIR" <dgcsir@csir.res.in>, "Secretary DSIR" <secy-dsir@gov.in>, "DG ICMR" <secy-dg@icmr.gov.in>, "Rabinarayan Acharya" <dg-ccras@nic.in>, ccrhindia@gmail.com, unanimedicine@gmail.com, ccrschennai@gmail.com, "icmrhqds" <icmrhqds@sansad.nic.in>, "Ms Leena Nandan" <secy-moef@nic.in>, "Itakpa jigmet" <Itakpa.jigmet@gov.in>, "DBT Bioresource PD" <bioresource-dbt@dbt.nic.in>, "Parliament Cell" <parl@csir.res.in>, ccrh@del3.vsnl.net.in, ccrhpq@gmail.com, "manish das" <manish.das@icar.gov.in>, "Manoj Bapna" <manojb12365-cgo@gov.in>, "Renu sharma" <renu.sharma16@gov.in>, "parliamentreply ccras" <parliamentreply.ccras@gmail.com>, "A Dhanalakshmi" <a.dhanalakshmi@nic.in>, neifmpasighat@gmail.com, "Technical Section BSI" <tech@bsi.gov.in>, secretary@ncismindia.org, "NationalResearchInstituteforSowaRigpa ResearchOfficer-Incharge" <nrisr-leh@gov.in>, "ssnayc ri" <ssnayc.ri@gmail.com>

Cc: "Prof. Dr. Mahesh Kumar Dadhich" <ceo-nmpb@nic.in>, "Dy. CEO NMPB Mo AYUSH" <dyceo-nmpb@nic.in>, "Murugeswaran R" <dr.murugesw.nmpb@gov.in>, "admn nmpb" <admn.nmpb@gmail.com>, "Mahipal" <mahipal.27@gov.in>, "Mamta Yadav" <mamtayadav.edu@nic.in>, "Himanshu Dwivedi" <rd-nmpb@govcontractor.in>, "SAURABH SHARMA" <saurabh.nmpb@gov.in>, "kavita tyagi" <kavita.tyagi@nic.in>

Sent: Friday, July 26, 2024 11:25:55 AM

Subject: Re: Lok Sabha Starred Diary No. 3681 for 02/08/2024 regarding 'AYUSH Research in Ayurveda college'-reg.

Gentle reminder most urgent Parliament Starred Question

From: "Dr.Bidhan Mahajon" <dr.bidhan@gov.in>

To: "Dr(Mr) Himanshu Pathak" <dg.icar@nic.in>, "Ashwani Kumar" <jsadm-n-agri@gov.in>, "Chandra Prakash Goyal" <cpgoyal@nic.in>, "Director General CSIR" <dg@csir.res.in>, "Director General CSIR" <dgcsir@csir.res.in>, "Secretary DSIR" <secy-dsir@gov.in>, "DG ICMR" <secy-dg@icmr.gov.in>, "Rabinarayan Acharya" <dg-ccras@nic.in>, ccrhindia@gmail.com, unanimedicine@gmail.com, ccrschennai@gmail.com, "icmrhqds" <icmrhqds@sansad.nic.in>, "Ms Leena Nandan" <secy-moef@nic.in>, "Itakpa jigmet" <Itakpa.jigmet@gov.in>, "DBT Bioresource PD" <bioresource-dbt@dbt.nic.in>, "Parliament Cell" <parl@csir.res.in>, ccrh@del3.vsnl.net.in, ccrhpq@gmail.com, "manish das" <manish.das@icar.gov.in>, "Manoj Bapna" <manojb12365-cgo@gov.in>, "Renu sharma" <renu.sharma16@gov.in>, "parliamentreply ccras" <parliamentreply.ccras@gmail.com>, "A Dhanalakshmi" <a.dhanalakshmi@nic.in>, neifmpasighat@gmail.com, "Technical Section BSI" <tech@bsi.gov.in>, secretary@ncismindia.org, "NationalResearchInstituteforSowaRigpa ResearchOfficer-Incharge" <nrisr-leh@gov.in>, "ssnayc ri" <ssnayc.ri@gmail.com>

Cc: "Prof. Dr. Mahesh Kumar Dadhich" <ceo-nmpb@nic.in>, "Dy. CEO NMPB Mo AYUSH" <dyceo-nmpb@nic.in>, "Murugeswaran R" <dr.muruges.h.nmpb@gov.in>, "admn nmpb" <admn.nmpb@gmail.com>, "Mahipal" <mahipal.27@gov.in>, "Mamta Yadav" <mamtayadav.edu@nic.in>, "Himanshu Dwivedi" <rd-nmpb@govcontractor.in>, "SAURABH SHARMA" <saurabh.nmpb@gov.in>, "kavita tyagi" <kavita.tyagi@nic.in>

Sent: Thursday, July 25, 2024 3:08:59 PM

Subject: Lok Sabha Starred Diary No. 3681 for 02/08/2024 regarding 'AYUSH Research in Ayurveda college'-reg.

Ayushman Bharat Health Accounts

*163 Shri Prabhakar Reddy Vemireddy:

Will the Minister of HEALTH AND FAMILY WELFARE

स्वास्थ्य और परिवार कल्याण मंत्री

be pleased to state:

(a) whether more than four crore Ayushman Bharat Health Accounts have been created in Andhra Pradesh upto July, 2024 and if so, the details thereof;

(b) whether only 17.7 lakh accounts have been created in Nellore district of Andhra Pradesh and if so, the details thereof;

(c) whether any assessment has been made for full coverage under the said scheme in Nellore; and

(d) if so, the details thereof along with the target date for full coverage of Nellore under Ayushman Bharat?

Medical Facilities at AIIMS

*164 Dr. Shrikant Eknath Shinde:
Shri Haribhai Patel:

Will the Minister of HEALTH AND FAMILY WELFARE

स्वास्थ्य और परिवार कल्याण मंत्री

be pleased to state:

(a) the total number of proposed All India Institutes of Medical Sciences (AIIMS) in terms of operational capacity and services to be offered across the country, State-wise and district-wise;

(b) the details about medical facilities/specialties made available at these AIIMS, along with the data on patient inflow and treatment outcomes;

(c) the amount of budget allocated/utilized for the development and modernization of AIIMS during the last three years; and

(d) the details of the impact of AIIMS on improving healthcare accessibility/quality in their respective regions as per the relevant data, State-wise?

AYUSH Research in Ayurveda College

*165 Shri Pradeep Purohit:

Will the Minister of AYUSH

आयुष मंत्री

be pleased to state:

(a) whether the Government is aware that as per botanical survey, there are more than 2200 medicinal plants in the Gandhamardan mountain in the district of Bargarh in Odisha;

(b) if so, the details thereof;

(c) whether it is a fact that Ayurvedic college situated in Nrusinghnath in this area is playing a vital role in research work of these medicinal plants;

(d) if so, the details thereof;

(e) whether the Government has any plan to take over this college; and

(f) if so, the details thereof and if not, the reasons therefor?



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA
सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX
तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING
पाँचवाँ और छठा तल / 5TH & 6TH FLOOR
डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I
साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064
Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI- 286/1 (Parl.) / 2023 -Tech. / 14/1

दिनांक/Date: 26th July, 2024

सेवा में / To

The Secretary
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan, Jor Bagh Road
New Delhi - 110003

(Kind attention: Dr. R. Murugeswaran, Deputy Advisor (Medicinal Plants, NMPB, Ministry of Ayush)

Subject: Lok Sabha Starred Question Diary No. 3681 for 02/08/2024 regarding 'AYUSH Research in Ayurveda College' - reg.

महोदया / Madam,

With reference to the email dated 25.07.2024 from the National Medicinal Plants Board, Ministry of Ayush in connection to the Lok Sabha Starred Question Diary No. 3681 for 02/08/2024 regarding 'AYUSH Research in Ayurveda College', I am directed to furnish herewith the following information for your kind perusal and necessary action as follows:

(a) whether the Government is aware that as per botanical survey, there are more than 2200 medicinal plants in the Gandhamardan mountain in the district of Bargarh in Odisha;

Answer: As per the available literature, which was done in 2009, a total number of 912 vascular plants are found in the Gandhamardan Hills of Bargarh, Odisha, out of which 125 species are classified as important medicinal plants while 220 species are quasi medicinal plants.

(b) if so, the details thereof;

Answer: As enclosed

(c) whether it is a fact that Ayurvedic college situated in Nrusinghnath in this area is playing a vital role in research work of these medicinal plants;

Answer: No information in this regard is available with BSI.

(d) if so, the details thereof;

Answer: Not Applicable to BSI

(e) whether the Government has any plan to take over this college, and

Answer: No information in this regard is available with BSI.

(f) if so, the details thereof and if not, the reasons therefor?

Answer: Not Applicable to BSI

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

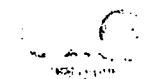
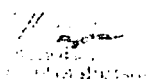
भवदीय/ Yours sincerely

(एस. एस. दाश / S. S. Dash)

वैज्ञानिक 'एफ' / Scientist 'F'

(प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

Encl: Pattanaik, C. and Reddy, C.S. 2009. An assessment of floristic diversity of Gandhamardan hill Range, Orissa, India. *Bangladesh Journal of Plant Taxonomy* p. 29-36



1st Floor, IRCS, Annexe Building,
Near Indian Red Cross Society,
Red Cross Road, New Delhi-110001

Date: - 25/07/2024

OFFICE MEMORANDUM

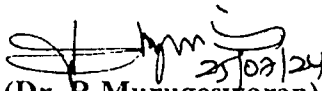
Subject: Lok Sabha Starred Question Diary No. 3681 for 02/08/2024 regarding 'AYUSH Research in Ayurveda College'.

The undersigned is directed to refer to the above said Lok Sabha Question as reproduced hereunder:

Will the Minister of Ayush be pleased to state:

- (a) whether the Government is aware that as per botanical survey, there are more than 2200 medicinal plants in the Gandhamardan mountain in the district of Bargarh in Odisha;
- (b) if so, the details of thereof;
- (c) whether it is a fact that Ayurvedic college situated in Nrusinghnath in this area is playing a vital role in research work of these medicinal plants;
- (d) if so, the details thereof;
- (e) whether the Government has any plan to take over this college, and
- (f) if so, the details thereof and if not, the reasons therefor?

2. It is requested that the part-wise information of the above said question and the supplementary note may kindly be furnished to the undersigned in hard as well as soft copy in MSWORD format alongwith (Email: dr.bidhan@gov.in / rd-nmpb@govcontractor.in) latest by tomorrow 26/07/2024 (AN) positively. This may be treated as **MOST URGENT**.


(Dr. R Murugeswaran)
Deputy Adviser (MPs)

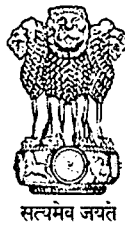
To,

- 1) Secretary (DARE) & Directory General (ICAR), Krishi Bhawan, New Delhi – 110001.
(Tel:01123382629), 23386711; Email: dg.icar@nic.in
- 2) Secretary (EF&CC), Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jorbagh Road New Delhi – 110003, Email: secy-moef@nic.in, Itakpa.jigmet@gov.in
- 3) Joint Secretary, Department of Science & Technology, Technology Bhawan, New Mehrauli Road, New Delhi – 110016 (Tel: 011-26516077), Email: anju_bhalla@nic.in
- 4) Joint Secretary (Parliament), Ministry of Agriculture & Farmers Welfare, Krishi Bhawan, Dr.Rajendra Prasad Road, New Delhi – 110001 (Tel: 011-23385595, Email: sthakur@nic.in)

- 5) Joint Secretary, Department of Bio-technology, CGO Complex, Lodhi Road, New Delhi-110003 (Tel: 011-24362982, Email: cpgoyal@nic.in)
- 6) Director General, CSIR, Anusandhan Bhawan, 2 Rafi Ahmed Kidwai Marg, New Delhi - 110001 (Tel: 011-23710472, 23717053, Email: dg@csir.res.in, dgcslr@csir.res.in, secy-dsir@gov.in, parl@csir.res.in)
- 7) Director General, Indian Council of Medical Research (ICMR), V. Ramalingaswami Bhawan, P.O. Box No. 4911, Ansari Nagar, New Delhi - 110029, India (Tel: 011-26588204, Email: secy-dg@icmr.gov.in) icmrhqds@sansad.nic.in
- 8) Director General, Central Council for Research and Ayurvedic Sciences (CCRAS), 61-65, Institutional Area, Opp. D. Block, Janakpuri, New Delhi - 110058.
- 9) Director General, Central Council for Research in Unani Medicine, 61-65, Institutional Area, Opp. D. Block, Janakpuri, New Delhi - 110058.
- 10) Director General, Central Council for Research in Homeopathy, 61-65, Institutional Area, Opp. D. Block, Janakpuri, New Delhi - 110058.
- 11) Central Council for Research in Siddha, Tambaram Sanatorium, GST Road, Chennai - 600 047, India, Email: ccrschennai@gmail.com
12. Director, Botanical Survey of India CGO Complex, 3rd MSO Building, Block F (5th and 6th Floor), DF Block, Sector I, Salt Lake City, Kolkata - 700 064, hq@bsi.gov.in
13. Director, National Research Institute of Sowa-region, Ladakh - drgurmet@rediffmail.com
14. The North Eastern Institute of Ayurveda & Folk Medicine Research (NEIAFMR), neifmpasighat@gmail.com



EW096 159312JN



स्पीड पोस्ट / SPEED POST



भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDINGपाँचवाँ और छठा तल / 5TH & 6TH FLOOR

डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I

साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI-286/1 (Parl.) / 2021 -Tech.

7510

दिनांक/Date : 19th July 2024

सेवा में / To

Dr. R. Murugesan

Deputy Advisor

National Medicinal Plant Board

Ministry of AYUSH

New Delhi - 110001

(Kind attention: Dr. Priti Singh, Scientist 'D' (Joint Director), MoEF&CC, New Delhi)

Subject: AYUSH Scheme- reg.

Ref: Lok Sabha Starred Question Dy no. 1455 for answer on 26.07.2024. -reg-

महोदया / Madam,

With reference to the email dated 16.07.2024 received by this office from dated 19.07.2024 from the Dr. Priti Singh, Scientist 'D' (Joint Director) Ministry of Environment, Forest & Climate Change in connection to Lok Sabha Starred Question Dy no. 1455 for answer on 26.07.2024 regarding "AYUSH Scheme", I am directed to furnish herewith the following information for your kind perusal and necessary action as follows:

a) the steps being taken/proposed to be taken by the Government for promotion and conservation of medicinal plants cultivation in the different parts of the country, State/UT-wise;

Answer: BSI maintains botanical gardens spread in different biogeographical zones of the country where separate sections on medicinal plants are maintained. The botanical gardens maintained by BSI are as follows:

- Acharya Jagadish Chandra Bose Indian Botanic Garden, Howrah, West Bengal
- Eastern Regional Centre, Shillong, Meghalaya
- Botanic Garden of Indian Republic, Noida, Uttar Pradesh
- Northern Regional Centre, Dehradun, Uttarakhand
- Arid Zone Regional Centre, Jodhpur, Rajasthan
- Southern Regional Centre, Coimbatore, Tamil Nadu
- National Orchidarium and Garden (NOEG), Yercaud, Tamil Nadu
- Western Regional Centre, Pune, Maharashtra
- Andaman & Nicobar Regional Centre, Port Blair A&N islands

b) the details of the quantum of amount incurred for the conservation, cultivation and infrastructure development of medicinal plants under his Ministry during the last three years, State/UT-wise; and

Answer: At present, no data regarding this is available with BSI. It does not pertain to BSI.

c) the steps taken/proposed to be taken by the Government for the promotion and dissemination of AYUSH system and medicines outside the country?

Answer: At present, no data regarding this is available with BSI. It does not pertain to BSI.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

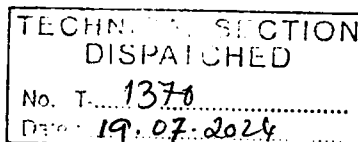
भवदीय/ Yours sincerely

(एस. एस. दाश / S. S. Dash)

वैज्ञानिक एफ / Scientist 'F'

(प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

प्रेषित / DESPATCHED





Lok Sabha Starred Question Diary No. 1455 for 26.07.2024 regarding "AYUSH Scheme" – reg.

From : SunilDutt

ResearchOfficer(MedicinalPlants/Agro)
<romps.nmpb@gov.in>

Fri, Jul 19, 2024 10:41 AM

1 attachment

Subject : Lok Sabha Starred Question Diary No. 1455 for 26.07.2024 regarding "AYUSH Scheme" – reg.

Sincere m

(mm)
19/7/2024

To : Shubha Thakur <sthakur@nic.in>, Ashish Malhotra <ashish.malhotra@nic.in>, Priya Ranjan <priya.ranjan98@gov.in>, Nameeta Prasad <nameeta.prasad@gov.in>, Sujit Kumar Bajpayee <sujit.baju@gov.in>, Mr Satyajit Mishra <satyajit.mishra@nic.in>, A Dhanalakshmi <a.dhanalakshmi@nic.in>, DST Website Support <ws-dst@gov.in>, Parliament Unit, DST <parldst@nic.in>, Chaitanya Murti <jsadmin.dbt@nic.in>, Xavier min <Xavier.min@nic.in>, Xavier Minj <so-pvgrc@dbt.nic.in>, Director General CSIR <dg@csir.res.in>, Director General CSIR <dgcsir@csir.res.in>, Dr(Mr) Himanshu Pathak <dg.icar@nic.in>, Ashiho Asosii Mao <hq@bsi.gov.in>, ADMIN BSI <admin@bsi.gov.in>, Technical Section BSI <tech@bsi.gov.in>, Dr. B Balaji <secretary@nba.nic.in>

Cc : Dy. CEO NMPB Mo AYUSH <dyceo-nmpb@gov.in>, Murugeswaran R <dr.muruges.h.nmpb@gov.in>

TECHNICAL SECTION, OFFICE OF DIRECTOR, BSI,	
Dy. No.	T-648
Date	19.07.2024

Sir / Madam,

Kindly find the attachment on subject cited parliament question.

It is requested that point-wise information for the Question may kindly be furnished both in hard as well as soft copy (E-mail: **romps.nmpb@gov.in**) by **19th, July, 2024 latest by 02:00 PM.**

With regards,

Sunil Dutt

Research Officer (Medicinal Plants/Agronomy)

National Medicinal Plants Board (NMPB),
Ministry of Ayush, Government of India,
Indian Red Cross Society (IRCS) Annexe Building,
1st Floor, 1 Red Cross Road, New Delhi-110001.

Tel : **011-23721836**, Email: **romps.nmpb@gov.in**, Website :

<https://www.nmpb.nic.in/>

#AYUSH#ZindagiRaheKhush



– Lok Sabha Starred Q. Dy. No. 1455 for 26-07-2024 - JS.pdf
392 KB

F. No. – H.11016/02/2024-25-NMPB-VI
Government of India
Ministry of Ayush
National Medicinal Plants Board

1st & 2nd Floor,
IRCS Annexe Building,
Red Cross Road, New Delhi –01
E-mail: romps.nmpb@gov.in
Dated: 18.07.2024

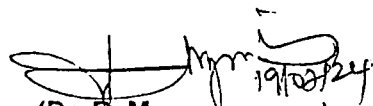
OFFICE MEMORANDUM

Subject: Lok Sabha Starred Question Diary No. 1455 for 26.07.2024 regarding
"AYUSH Scheme" – reg.

The undersigned is directed to refer to the above said Lok Sabha Question as reproduced hereunder:

- NA
NO
- (a) the steps being taken/proposed to be taken by the Government for promotion and conservation of medicinal plants cultivation in the different parts of the country, State/UT-wise;
- (b) the details of the quantum of amount incurred for the conservation, cultivation and infrastructure development of medicinal plants under his Ministry during the last three years, State/UT-wise; and
- (c) the steps taken/proposed to be taken by the Government for the promotion and dissemination of AYUSH system and medicines outside the country?

It is requested that point-wise information for the above Question may kindly be furnished both in hard as well as soft copy (E-mail: romps.nmpb@gov.in) on 19.07.2024 latest by 02:00 PM to the undersigned.

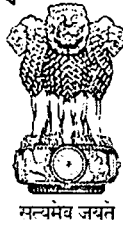

(Dr. R. Murugeswaran)
Deputy Advisor (Medicinal Plants)

To

1. Joint Secretary, Ministry of Agriculture & Farmers Welfare, Department of Agriculture and Farmers Welfare, Krishi Bhawan, New Delhi – 110001.
2. Joint Secretary (Parliament), Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj, New Delhi - 110003.
3. Joint Secretary, Department of Science & Technology, Technology Bhawan, New Mehrauli Road, Block – C, Qutab Institutional Area, New Delhi – 110016.
4. Joint Secretary, Department of Biotechnology, 6th-8th Floor, Block 2 CGO Complex, Lodhi Road, New Delhi - 110 003.
5. Director General, Council of Scientific & Industrial Research, Anusandhan Bhawan, 2 Rafi Ahmed, Kidwai Marg, New Delhi-110001.
6. Director General, Indian Council of Agricultural Research, Krishi Bhawan, New Delhi-110001.
7. Director, Botanical Survey of India, CGO Complex, 3rd MSO Building, Block – F, DF Block, Sector – I, Salt Lake City, Kolkata – 70006.
8. Secretary, National Biodiversity Authority, 5th Floor, TICEL Bio Park, CSIR Road, Taramani, Chennai - 600 113. Email: secretary@nba.nic.in



EW167815209IN



स्पीड पोस्ट / SPEED POST



भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDINGपाँचवाँ और छठा तल / 5TH & 6TH FLOOR

डी एफ ब्लॉक, सेक्टर-1 / DF BLOCK, SECTOR I

साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइलसंख्या/File No.: BSI-286/1 (Parl.)/2024/Tech. / 2800

दिनांक/Date : 03.12.2024

सेवा में / To

The Secretary
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan, Jor Bagh Road
New Delhi-110003

(Kind Attention: Shri Abhimanyu Kumar Sharma, Section Officer, MoEF&CC, New Delhi)

विषय / Sub: Lok Sabha Unstarred Question Diary No. 5951 for 09.12.2024 regarding "Biodiversity Conservation in Odisha's Coastal and Riverine Ecosystems" -reg.

महोदया / Madam,

With reference to the email dated 27.11.2024 on the question regarding Biodiversity Conservation in Odisha's Coastal and Riverine Ecosystems" under Question Diary No. 5951, I am directed to furnish the following information for your kind perusal:

- a) Whether the Government has formulated any specific plans or initiatives to conserve biodiversity within the coastal and riverine ecosystems of the State of Odisha, particularly focusing on rare and endangered flora and fauna unique to Bhadrak and surrounding regions;

Answer: Yes. As per available information, BSI has undertaken following survey and exploration works in the coastal regions of Odisha:

1. Flora of Puri district: It includes the coastal and riverine vegetation of the Puri district, which share a similarity with Bhadrak district.
2. Mangroves of the Indian coast: This book gives a complete information on the mangroves of Odisha, including Bhitarkanika and adjacent areas.
3. Flora of Kuldiha W.L.S., Balasore, Odisha: This includes the vegetation of Kuldiha W.L.S., which is the part of the riverine ecosystems of the northern Odisha and very much similar to the area in the question.
4. Flora of grasses of Odisha: It gives a comprehensive information of grass flora of the Odisha, including coastal and riverine ecosystems.

Besides, Recently, BSI has allotted a project on the flora of Bhitarkanika Wildlife Sanctuary, Kendrapara, Odisha.

- b) The details of measures being implemented to protect and restore habits critical for sustaining biodiversity in these ecosystems, with a focus on balancing ecological preservation with local community needs; and

Answer: Government has promulgated the establishment of the protected areas in and around the coastal regions. Besides, some other initiatives by various govt. agencies include environmental impact assessment; integrated ecosystem management (integrated watershed management, integrated coastal zone management, integrated forest management); and community-based natural resource management (traditional or indigenous knowledge, ecosystem-based sustainable livelihood practices etc.) with a focus on balancing ecological preservation with local community needs of the region.

- c) The details of metrics or indicators used to assess the success of these biodiversity conservation efforts, especially in terms of preserving species unique to Odisha's coastal and riverine areas?

Answer: This question does not pertain to BSI. It documents the existing flora of the country by survey and exploration. This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय/Yours sincerely

(एस. एस. दाश / S. S. Dash)

वैज्ञानिक एफ / Scientist 'F'

(प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

प्रेषित/DESPATCHED
06.12.24

TECHNICAL SECTION
DISPATCHED
No. T-.....26.....
Date :.....04.12.2024.....

Uploaded on: 27 Nov 2024 16:01:12

LOK SABHA

Ministry: ENVIRONMENT, FOREST AND CLIMATE CHANGE

Sitting on: 09/12/2024

Question Type: UNSTARRED

119

D.No : 5951

Biodiversity Conservation in Odisha's Coastal and Riverine Ecosystems

Will the Minister of ENVIRONMENT, FOREST AND CLIMATE CHANGE

- (a) whether the Government has formulated any specific plans or initiatives to conserve biodiversity within the coastal and riverine ecosystems of the State of Odisha, particularly focusing on rare and endangered flora and fauna unique to Bhadrak and surrounding regions;
- (b) the details of measures being implemented to protect and restore habitats critical for sustaining biodiversity in these ecosystems, with a focus on balancing ecological preservation with local community needs; and
- (c) the details of metrics or indicators used to assess the success of these biodiversity conservation efforts, especially in terms of preserving species unique to Odisha's coastal and riverine areas?

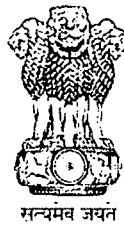
119/2412
27/11/24

Ser. (a) (RKK)

Reema
28/11/2024

AD(ANS)

28.11.2024
(अभिमान्यु कुमार शर्मा)
(ABHIMANYU KUMAR SHARMA)
अनुभाग अधिकारी/Section Officer
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
M/o Environment Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi



भारतसरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स/CGO COMPLEX

तृतीय एम. एस.ओ. भवन/ 3RD MSO BUILDING पाँचवाँ और छठा तल/ 5TH & 6TH

FLOOR डीएफ ब्लॉक, सेक्टर १/ DF BLOCK, SECTOR I

साल्टलेक, कोलकाता-६४/ SALT LAKE, KOLKATA - 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/File No.: BSI-286/1 (Parl.)/2024/Tech.

दिनांक/Date : .12.2024

सेवा में / To

The Secretary

Ministry of Environment, Forest and Climate Change

Indira Paryavaran Bhawan, Jor Bagh Road

New Delhi-110003

(Kind Attention: Shri Abhimanyu Kumar Sharma, Section Officer, MoEF&CC, New Delhi)

विषय / Sub: Lok Sabha Unstarred Question Diary No. 5951 for 09.12.2024 regarding "Biodiversity Conservation in Odisha's Coastal and Riverine Ecosystems" -reg.

महोदय / Madam,

With reference to the email dated 27.11.2024 on the question regarding Biodiversity Conservation in Odisha's Coastal and Riverine Ecosystems" under Question Diary No. 5951, I am directed to furnish the following information for your kind perusal:

- a) Whether the Government has formulated any specific plans or initiatives to conserve biodiversity within the coastal and riverine ecosystems of the State of Odisha, particularly focusing on rare and endangered flora and fauna unique to Bhadrak and surrounding regions;

Answer: BSI is mandated for survey and exploration of the of wild plant resources of the country including coastal and riverine ecosystems of the country. In this regard, BSI has made several publications on the mangroves of the Indian coast, including Odisha, and marine macro algal Flora of several maritime states such as Kerala, Karnataka, Goa etc. However, there is no any specific plan or program for the coastal and riverine ecosystems of the State of Odisha, focusing on rare and endangered flora of Bhadrak and surrounding regions.

- b) The details of measures being implemented to protect and restore habits critical for sustaining biodiversity in these ecosystems, with a focus on balancing ecological preservation with local community needs; and

Answer: There are several national policies, plans, and strategies being implemented by the Government to protect and restore habits critical for sustaining biodiversity in these ecosystems. Some of these include environmental impact assessment; integrated ecosystem management tools (integrated watershed management, integrated coastal zone management, integrated forest management); and community-based natural resource management (traditional or indigenous knowledge, ecosystem-based sustainable livelihood practices etc.) with a focus on balancing ecological preservation with local community needs of the region.

- c) The details of metrics or indicators used to assess the success of these biodiversity conservation efforts, especially in terms of preserving species unique to Odisha's coastal and riverine areas?

Answer: This does not pertain to Botanical Survey of India.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय / Yours sincerely,

(एस. एस. दाश / S. S. Dash)

वैज्ञानिक एफ / Scientist 'F'

(प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

Uploaded on: 27 Nov 2024 16:01:12

LOK SABHA

Ministry: ENVIRONMENT, FOREST AND CLIMATE CHANGE

Sitting on: 09/12/2024

Question Type: UNSTARRED

119

D.No : 5951

Biodiversity Conservation in Odisha's Coastal and Riverine Ecosystems

Will the Minister of ENVIRONMENT, FOREST AND CLIMATE CHANGE

- (a) whether the Government has formulated any specific plans or initiatives to conserve biodiversity within the coastal and riverine ecosystems of the State of Odisha, particularly focusing on rare and endangered flora and fauna unique to Bhadrak and surrounding regions;
- (b) the details of measures being implemented to protect and restore habitats critical for sustaining biodiversity in these ecosystems, with a focus on balancing ecological preservation with local community needs; and
- (c) the details of metrics or indicators used to assess the success of these biodiversity conservation efforts, especially in terms of preserving species unique to Odisha's coastal and riverine areas?

119/9412
27/11/24

Ser. (A) (RKK)

Ramesh
28/11/2024

AD(ANS)

28.11.2024
(अभिमान्यु कुमार शर्मा)
(ABHIMANYU KUMAR SHARMA)
अनुभाग अधिकारी/Section Officer
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min. Environment, Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi



EW 077183283 IN



स्पीड पोस्ट / SPEED POST



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA
सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX
तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING
पाँचवाँ और छठा तल / 5TH & 6TH FLOOR
डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I
साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फ़ाइल संख्या/ File No.: BSI- 286/1 (Parl.) / 2023 -Tech.

दिनांक/Date: 1st August, 2024

सेवा में / To

The Secretary
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan, Jor Bagh Road
New Delhi - 110003

Subject: Provisionally admitted Unstarred Rajya Sabha Question Diary No.2956 regarding Biodiversity Documentation - reg.

महोदया / Madam,

With reference to the email dated 30.07.2024 from the National Medicinal Plants Board, Ministry of Ayush in connection to the Provisionally admitted Unstarred Rajya Sabha Question Diary No.2956 regarding Biodiversity Documentation, I am directed to furnish herewith the following information for your kind perusal and necessary action as follows:

(a) the steps taken by the Ministry towards biodiversity documentation;

Answer: Botanical Survey of India, the apex taxonomic research organization under the MoEF&CC, New Delhi has been documenting the floristic wealth and making it available to the public in printed documents such as books, monographs, reports and also through electronic media including web portals. Till now, BSI has published 379 books documenting and showcasing the biodiversity of India. Some of the noteworthy publications include Flora of India –An Annotated Checklist (3 vols.), Flora of India (19 vols.), Lichens of India, Bryophytes of India, Gymnosperm of India, Pteridophytes of India (vol.-1-3) and Algae of India (6 vols.).

Besides, for documenting the biodiversity, BSI has also published State flora, District flora, Flora of different protected areas, national parks, wildlife sanctuaries etc. Towards documenting the new discoveries, BSI publishes compilation of new taxa and new records, of previous year as Plant Discoveries. In addition to this, towards documenting the special group of plants, BSI has also published the Compendium on Flora of Ramsar site (2 vols), Endemic plants of India, Mangroves of India, plants of India Himalaya region, fascicles of flora of India (31 vols), Plants of silk route (A Southern Silk Route: Sikkim and Kalimpong Wild Flowers and Landscape), Rhododendrons of India, Balsams of India, etc.

Further, the ministry has also funded to the different research institutes (universities) for documenting the diversity of different places through its dedicated research programmes/schemes such as AICOPTAX, ABG, NMHS, Wetland programmes etc.

(b) the significance of such documentation on the global stage.

Answer: The documentation published by Botanical Survey of India showcasing the floristic wealth of the country is significantly utilized by the global scientific fraternity. For example, the Indian Virtual Herbarium (<https://ivh.bsi.gov.in>) developed by BSI has a footfall of 5 millions in the last 1 year in the average of 4.5 lakhs per month. Similarly the e-checklist platform is visited by more than 2.5 lakhs visitors every month. The

document on NDF (Non Detrimental Finding) studies helped India to increase its export quota of *Aquilaria*, *Dalbergia* and *Pterocarpus santalinus*. The documents on Pharmacognosy of negative listed plants helped CITES and also the law makers throughout the country and neighbouring countries. All these publications have been used as an important referral document by the scientific fraternity throughout the world. The checklist of all the plant groups has been recognized as the key referral document for Plants of the World Online (POWO), International Plant Names Index (IPNI), Biodiversity Heritage Library (BHL), Tropicos, IUCN Red listing, The Catalogue of Life (COL) etc.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय/Yours sincerely

(एस. एस. दाश/ S. S. Dash)

वैज्ञानिक एफ / Scientist 'F'

(प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

SECTION	
No. T-.....	1517
Date:	01.08.2024

2361
DISPATCHED
2/8/24

Fwd: Provisionally admitted Unstarred Rajya Sabha Question Diary No.2956 regarding Biodiversity Documentation

From : skyadavbsic@gmail.com Tue, Jul 30, 2024 12:27 PM
Subject : Fwd: Provisionally admitted Unstarred Rajya Sabha Question Diary No.2956 regarding Biodiversity Documentation 1 attachment
To : Technical Section BSI <tech@bsi.gov.in>

.....
Dr. Sudhir Kumar Yadav
Botanist
Botanical Survey of India, Headquarters
(Ministry of Environment, Forest & Climate Change)
CGO Complex, Sector 1, Salt Lake City, Kolkata - 700 064, INDIA

orcid id: <https://orcid.org/0000-0003-2812-3347>

----- Forwarded message -----

From: Sudhansu Sekhar Dash <ssdash2002@gmail.com>
Date: Tue, Jul 30, 2024 at 11:49 AM
Subject: Fwd: Provisionally admitted Unstarred Rajya Sabha Question Diary No.2956 regarding Biodiversity Documentation
To: Dr Umeshkumar Tiwari <tigerumesh11@gmail.com>, Sudhir Kr. Yadav, HQ <skyadavbsic@gmail.com>

----- Forwarded message -----

From: Deepali Goel <sobsi2012@gmail.com>
Date: Tue, 30 Jul, 2024, 10:05 AM
Subject: Provisionally admitted Unstarred Rajya Sabha Question Diary No.2956 regarding Biodiversity Documentation
To: ZSIHQ Kolkata <zsikolkata@gmail.com>, dhriti banerjee <dhritibanerjee@gmail.com>, Gurupada Mandal <gpmandal.zsi@gmail.com>, Head of office ZSI <hoo@zsi.gov.in>, Ashiho Asosii Mao <hq@bsi.gov.in>, Murugan Chidambaram <hoo-hqrs@bsi.gov.in>, Dr Chidambaram Murugan <admin@bsi.gov.in>, Ashiho Mao <aamao2008@gmail.com>, Sudhansu sekhar Dash <ssdash2002@gmail.com>, Technical Section ZSI HQ, Kolkata <technical@zsi.gov.in>, Achuta Nand Shukla <achuta.shukla@gov.in>

Sir,

Please find attached Provisionally admitted Unstarred Rajya Sabha Question Diary No.2956 regarding Biodiversity Documentation with the text as under:

- a. the steps taken by the Ministry towards biodiversity documentation;
- b. the significance of such documentation on the global stage.

You are requested to furnish your inputs for the question urgently.

_ Unstarred Diary No 2956_0001.pdf

627 KB

**Technical Section BSI****Fwd: Provisionally admitted Unstarred Rajya Sabha
Question Diary No.2956 regarding Biodiversity
Documentation****From :** skyadavbsic@gmail.com Tue, Jul 30, 2024 12:27 PM**Subject :** Fwd: Provisionally admitted Unstarred Rajya Sabha Question Diary No.2956 regarding Biodiversity Documentation 1 attachment**To :** Technical Section BSI
<tech@bsi.gov.in>

.....
Dr. Sudhir Kumar Yadav
Botanist
Botanical Survey of India, Headquarters
(Ministry of Environment, Forest & Climate Change)
CGO Complex, Sector 1, Salt Lake City, Kolkata - 700 064, INDIA

orcid id: <https://orcid.org/0000-0003-2812-3347>

----- Forwarded message -----

From: Sudhansu Sekhar Dash<ssdash2002@gmail.com>

Date: Tue, Jul 30, 2024 at 11:49 AM

Subject: Fwd: Provisionally admitted Unstarred Rajya Sabha
Question Diary No.2956 regarding Biodiversity
DocumentationTo: Dr Umeshkumar Tiwari <tigerumesh11@gmail.com>,
Sudhir Kr. Yadav, HQ <skyadavbsic@gmail.com>

----- Forwarded message -----

From: **Deepali Goel** <sobsi2012@gmail.com>

Date: Tue, 30 Jul, 2024, 10:05 AM

Subject: Provisionally admitted Unstarred Rajya Sabha
Question Diary No.2956 regarding Biodiversity
Documentation

To: ZSIHQ Kolkata <zsikolkata@gmail.com>, dhriti banerjee
<dhritibanerjee@gmail.com>, Gurupada Mandal
<gpmandal.zsi@gmail.com>, Head of office ZSI
<hoo@zsi.gov.in>, Ashiho Asosii Mao <hq@bsi.gov.in>,
Murugan Chidambaram <hoo-hqrs@bsi.gov.in>, Dr
Chidambaram Murugan <admin@bsi.gov.in>, Ashiho Mao
<aamao2008@gmail.com>, Sudhansu sekhar Dash
<ssdash2002@gmail.com>, Technical Section ZSI HQ,
Kolkata <technical@zsi.gov.in>, Achuta Nand Shukla
<achuta.shukla@gov.in>

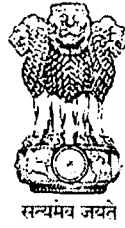
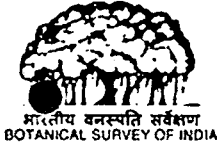
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Rajya Sabha Question Diary No.2956 regarding Biodiversity
Documentation with the text as under:

- a. the steps taken by the Ministry towards biodiversity
documentation;
- b. the significance of such documentation on the global
stage.

You are requested to furnish your inputs for the
question urgently.

_ Unstarred Diary No 2956_0001.pdf
627 KB



SPEED POST



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA
सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX
तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING
पाँचवाँ और छठा तल / 5TH & 6TH FLOOR
डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I
साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA – 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/File No.: BSI-281/19/2024-Tech. (2434/ दिनांक/Date: 25th November 2024
सेवा में/To 2785

The Secretary to the Govt. of India,
Ministry of Environment, Forests & Climate Change
Indira Paryavaran Bhawan,
Jor Bagh Road, Aliganj
New Delhi-110 003

(Kind attention: Mr. R.S. Bora, DS (CS-II), MoEF&CC, New Delhi)

विषय/ Subject: Rajya Sabha Unstarred admitted question no. 390 for answer on 28.11.2024 regarding 'Conservation of Indian Botanical Garden'—reg.

महोदय / Sir,

In reference your email, dated 22.11.2024 on the subject mentioned above, I am directed to furnish the point wise information regarding 'Conservation of Indian Botanical Garden' as mentioned below:

- (a) The measures taken by the Government to ensure the conservation and preservation of rare plant species at the Indian Botanical Garden?

Reply: AJC Bose Indian Botanic Garden, Howrah act as a hub for *ex-situ* conservation of plants and harbours more than 20000 plants belonging to over 3000 species of flowering and nonflowering plants, among these more than 300 species are IUCN red list including the endemic from different phytogeographical regions of the country. The AJCB IBG Howrah on its regular activities multiplies these plants and also introduce in the garden as and when required. Besides, distribution of these seedlings are being done regularly to different other botanical gardens and forest departments.

The garden has created different sections for conservation such as aquatic plants section with over 90 taxa, *Hibiscus* section with over 100 taxa and hybrids collections, wild banana, wild edible fruits (over 100 taxa), medicinal section with over 400 medicinal plants, a *bambusetum* with 42 species of bamboo, a *palmetum* with more than 50 species.

Besides, regular tours have been conducted for collection of threatened species for the introduction in the garden; during the period of 2021-24, 579 species were collected and added to the garden, from all over the country.

- (b) The manner in which Government is addressing the concerns about the loss of green cover and biodiversity in the Indian Botanical Garden?

Reply: The garden authority has been doing the maintenance of the garden as per the prescribed guidelines to maintain the green cover and biodiversity. Besides, different programmes have also been conducted for plant introduction. During the period 2021-24, 8000 plants belonging to 579 species under 180 families have either been introduced or replaces in different divisions and sections of AJCBIBG, Howrah. To maintain and restore the green cover along the river Hooghly, about 3000 mangrove saplings belonging to 10 different species have also been planted.

- (c) Whether Government can provide an update on the maintenance and restoration efforts for heritage structures within the AJC Bose Indian Botanical Garden such as Roxburgh House?

Reply: Botanical Survey of India has signed a MoU with the *Indian National Trust for Art and Cultural Heritage* (INTACH) to restore the old structures in the garden. The department has also taken various initiatives for restoration of the old buildings through Corporate Social Responsibility (CSR) funds and approached different corporate firms. NTPC has agreed to fund for restoration of old herbarium buildings and digitization of herbarium.

(d) The manner in which Government plans to balance the need for visitor attraction with the primary goal of conservation and research at the Indian Botanical Garden?

Reply: The garden has more than 8000 morning walkers especially senior citizens daily, over 5 lakh visitors and over 25000 students from schools, colleges, researchers to this garden annually, hence the minimum facilities like footpaths, sitting benches, drinking water, gazebos and toilets facilities has been created and more new ones installed. Keeping in mind with primary goal of conservation, the garden has planted more than 8000 saplings collected from different parts of the country and 150 rare species (White sandal, Red sandal, Sita Ashok, Magnolia, Bentinckia, Neem, Cassia, Amaltash, Champagne Palm, Branch Palm etc) along the road side and in various division and sections of the garden after eradicating the weeds. The garden is also developing new sections of particular plants like Hibiscus section, Aquatic plant section, Extension of medicinal plant garden, Zinger section, Cycad Section, Wild edible fruit section, Cycas section, Orchidarium, Nature trail, Taxonomic plant section, etc. Thus, the garden is fulfilling the goal of conservation and at the same time fulfilling the need of visitors' attraction. It must be keep in mind that botanic gardens are not only for conservation but to educate the people the importance biodiversity conservation by let them enjoying the aesthetic beauty of it.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय / Yours sincerely,

(S. S. Dash)
25/11/2024
(एस. एस. दाश / S. S. Dash)
वैज्ञानिक/ Scientist 'F'

(प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

TECHNICAL SECTION
DISPATCHED
No. T-2434
25.11.2024

प्रेषित/DESPATCHED
Kunal
26.11.2024

DL



Sudhir Kumar Yadav <skyadavbsic@gmail.com>

Fwd: Rajya Sabha Unstarred admitted question no. 390 for answer on 28.11.2024 regarding 'Conservation of Indian Botanical Garden'-regarding.

1 message

Technical Section BSI <tech@bsi.gov.in>

Fri, Nov 22, 2024 at 3:47 PM

To: Dr Sudhansu Sekhar Dash <ssdash@bsi.gov.in>, ssdash2002 <ssdash2002@gmail.com>, Sudhir Yadav <skyadavbsic@gmail.com>

Technical Section

Botanical Survey of India, HQ

Salt Lake City, Kolkata - 700 064

Emails: tech@bsi.gov.in ; tech.bsi2021@gmail.com

From: sobsi2012@gmail.com

To: "Dr C Murugan" <cmurugan@bsi.gov.in>, ssdash2002@gmail.com, "Dr Sudhansu Sekhar Dash" <ssdash@bsi.gov.in>, "Ashiho Asosii Mao" <hq@bsi.gov.in>, "Hoo, BSI Hqrs" <hoo-hqrs@bsi.gov.in>, "tech bsi2021" <tech.bsi2021@gmail.com>, "Technical Section BSI" <tech@bsi.gov.in>

Sent: Friday, November 22, 2024 3:12:56 PM

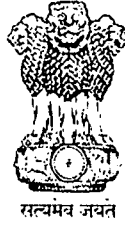
Subject: Rajya Sabha Unstarred admitted question no. 390 for answer on 28.11.2024 regarding 'Conservation of Indian Botanical Garden'-regarding.

Sir,

Please refer to the subject mentioned above and to request you to furnish inputs for the Rajya Sabha Unstarred admitted question no. 390 for answer on 28.11.2024 regarding 'Conservation of Indian Botanical Garden' with the text as follows:

- (a) the measures taken by Government to ensure the conservation and preservation of rare plant species at the Indian Botanical Garden; (b) the manner in which Government is addressing the concerns about the loss of green cover and biodiversity in the Indian Botanical Garden; 91
- (c) whether Government can provide an update on the maintenance and restoration efforts for heritage structures within the AJC Bose Indian Botanical Garden such as Roxburgh House; and
- (d) the manner in which Government plans to balance the need for visitor attraction with the primary goal of conservation and research at the Indian Botanical Garden?

You are requested to furnish inputs for the question **urgently**.



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA
सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX
तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING
पाँचवाँ और छठा तल / 5TH & 6TH FLOOR
डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR 1
साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA – 700064
Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/File No.: BSI-281/19/2024-Tech.

दिनांक/Date: 25th November 2024

सेवा में/To

The Secretary to the Govt. of India,
Ministry of Environment, Forests & Climate Change
Indira Paryavaran Bhawan,
Jor Bagh Road, Aliganj
New Delhi-110 003

(Kind attention: Mr. R.S. Bora, DS (CS-II), MoEF&CC, New Delhi)

विषय/ Subject: Rajya Sabha Unstarred admitted question no. 390 for answer on 28.11.2024 regarding 'Conservation of Indian Botanical Garden'—reg.

महोदय / Sir,

In reference your email, dated 22.11.2024 on the subject mentioned above, I am directed to furnish the point wise information regarding 'Conservation of Indian Botanical Garden' as mentioned below:

- (a) The measures taken by the Government to ensure the conservation and preservation of rare plant species at the Indian Botanical Garden?

Reply: AJC Bose Indian Botanic Garden, Howrah act as a hub for *ex-situ* conservation of plants and harbours more than 20000 plants belonging to over 3000 species of flowering and nonflowering plants, among these more than 300 species are IUCN red list including the endemic from different phytogeographical regions of the country. The AJCB IBG Howrah on its regular activities multiplies these plants and also introduce in the garden as and when required. Besides, distribution of these seedlings are being done regularly to different other botanical gardens and forest departments.

The garden has created different sections for conservation such as aquatic plants section with over 90 taxa, *Hibiscus* section with over 100 taxa and hybrids collections, wild banana, wild edible fruits (over 100 taxa), medicinal section with over 400 medicinal plants, a *bambusetum* with 42 species of bamboo, a *palmetum* with more than 50 species.

Besides, regular tours have been conducted for collection of threatened species for the introduction in the garden; during the period of 2021-24, 579 species were collected and added to the garden, from all over the country.

- (b) The manner in which Government is addressing the concerns about the loss of green cover and biodiversity in the Indian Botanical Garden?

Reply: The garden authority has been doing the maintenance of the garden as per the prescribed guidelines to maintain the green cover and biodiversity. Besides, different programmes have also been conducted for plant introduction. During the period 2021-24, 8000 plants belonging to 579 species under 180 families have either been introduced or replaces in different divisions and sections of AJCBIBG, Howrah. To maintain and restore the green cover along the river Hooghly, about 3000 mangrove saplings belonging to 10 different species have also been planted.

- (c) Whether Government can provide an update on the maintenance and restoration efforts for heritage structures within the AJC Bose Indian Botanical Garden such as Roxburgh House?



Sudhir Kumar Yadav <skyadavbsic@gmail.com>

Fwd: Rajya Sabha Unstarred admitted question no. 390 for answer on 28.11.2024 regarding 'Conservation of Indian Botanical Garden'-regarding.

1 message

Technical Section BSI <tech@bsi.gov.in>

Fri, Nov 22, 2024 at 3:47 PM

To: Dr Sudhansu Sekhar Dash <ssdash@bsi.gov.in>, ssdash2002 <ssdash2002@gmail.com>, Sudhir Yadav <skyadavbsic@gmail.com>

.....
Technical Section
Botanical Survey of India, HQ
Salt Lake City, Kolkata - 700 064
Emails: *tech@bsi.gov.in* ; *tech.bsi2021@gmail.com*

From: sobsi2012@gmail.com

To: "Dr C Murugan" <cmurugan@bsi.gov.in>, ssdash2002@gmail.com, "Dr Sudhansu Sekhar Dash" <ssdash@bsi.gov.in>, "Ashiho Asosii Mao" <hq@bsi.gov.in>, "Hoo, BSI Hqrs" <hoo-hqrs@bsi.gov.in>, "tech bsi2021" <tech.bsi2021@gmail.com>, "Technical Section BSI" <tech@bsi.gov.in>

Sent: Friday, November 22, 2024 3:12:56 PM

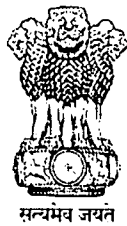
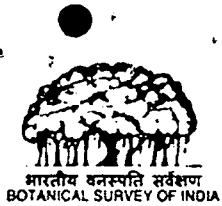
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- ✓(c) whether Government can provide an update on the maintenance and restoration efforts for heritage structures within the AJC Bose Indian Botanical Garden such as Roxburgh House; and
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भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA
सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX
तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING
पाँचवाँ और छठा तल / 5TH & 6TH FLOOR
डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I
साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA – 700064
Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI-286/1 (Parl.) / 2024 -Tech. / 1391-92 दिनांक/Date 26 July-2024

सेवा में / To

The Secretary

Ministry of Environment, Forest and Climate Change

Indira Paryavaran Bhawan, Jor Bagh Road

New Delhi - 110003

(Kind attention: Ms. Nameeta Prasad, Joint Secretary (CS-II), MoEF&CC, New Delhi)

Subject: Rajya Sabha Admitted starred Question (Diary No. 21) on 01.08.2024 on 'Conservation efforts of threatened species found in India in IUCN red list'-reg.

महोदया/ Madam,

With reference to your email, dated 22nd July, 2024 regarding Conservation efforts of threatened species found in India in IUCN red list', I am directed to furnish herewith the following information for your kind perusal and necessary action as follows:

a) **Whether it is a fact that the number of IUCN Red List of Threatened Species in the country is going further down;**

Answer: As of today, although 2970 species, which are found in India (not endemic to the country), have been assessed by the IUCN and featured in the IUCN red list. Of these, more than 2043 species are categorized as Least Concerned and don't require immediate conservation measures. For the remaining species, which are categories under extinct (2 species), extinct in the wild (2), Critically Endangered (155), Endangered (274), Vulnerable (213) and Near Threatened (80), the conservation measures are being undertaken by BSI and other relevant institutes.

b) **If so, the details of conservation efforts of threatened species in IUCN red list;**

Answer: Through the *ex-situ* conservation, BSI conserves plants including IUCN red listed species in its Botanical gardens, located in different phytogeographical regions of the country. Besides, under the Assistance to Botanic Gardens (ABG) scheme of the Ministry, IUCN listed

threatened species have also been prioritized in the network of Botanic Gardens across the countries for conservation.

c) the manner in which the Government is tackling their habitat loss;

Answer: This question does not pertain to BSI.

d) fund allocated and utilized for conservation of IUCN Red List of Threatened Species found in country in the last five years, year-wise?

Answer: All conservation measures in BSI is undertaken from the *inhouse* projects. No any specific fund / budget is allocated for this purpose, except a grant in Aid scheme amounting to Rs. 1.5 Crore under BSI budget.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय/Yours sincerely

(एस. एस. दाश / S. S. Dash)

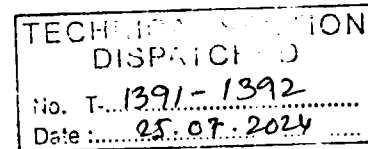
वैज्ञानिक एफ / Scientist 'F'

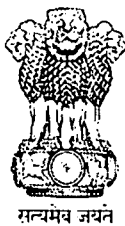
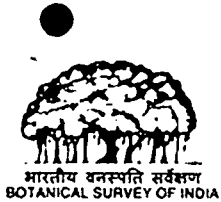
(प्रभारी, तकनीकी अनुभाग / In- charge, Tech. Section)

Copy to:

Shri Yogender Kumar, ASO (HSMD), MoEF&CC, New Delhi - 110001 for information.

2299-2300
प्रेषित / DESPATCHED
26/7/24





भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA
सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX
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Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI-286/1 (Parl.) / 2024 -Tech.

दिनांक/Date : July-2024

सेवा में / To

The Secretary
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan, Jor Bagh Road
New Delhi - 110003

(Kind attention: Ms. Nameeta Prasad, Joint Secretary (CS-II), MoEF&CC, New Delhi)

Subject: Rajya Sabha Admitted starred Question (Diary No. 21) on 01.08.2024 on 'Conservation efforts of threatened species found in India in IUCN red list'-reg.

महोदया/ Madam,

With reference to your email, dated 22nd July, 2024 regarding **Conservation efforts of threatened species found in India in IUCN red list**, I am directed to furnish herewith the following information for your kind perusal and necessary action as follows:

a) **Whether it is a fact that the number of IUCN Red List of Threatened Species in the country is going further down;**

Answer: As of today, although 2970 species, which are found in India (not endemic to the country), have been assessed by the IUCN and featured in the IUCN red list. Of these, more than 2043 species are categorized as Least Concerned and don't require immediate conservation measures. For the remaining species, which are categories under extinct (2 species), extinct in the wild (2), Critically Endangered (155), Endangered (274), Vulnerable (213) and Near Threatened (80), the conservation measures are being undertaken by BSI and other relevant institutes.

b) **If so, the details of conservation efforts of threatened species in IUCN red list;**

Answer: Through the *ex-situ* conservation, BSI conserves plants including IUCN red listed species in its Botanical gardens, located in different phytogeographical regions of the country. Besides, under the Assistance to Botanic Gardens (ABG) scheme of the Ministry,

"Satyendra Kumar" <satyendra.kumar07@nic.in>, "amit raj"
<amit.raj1979@nic.in>, "Bhawna singh"
<bhawna.singh@gov.in>

Sent: Monday, July 22, 2024 3:38:37 PM

Subject: MOSU URGENT- Rajya Sabha Parliament Question
Starred Diary No. 21 to be answered on 01/08/2024

**MOST URGENT
PARLIAMENT MATTER**

**Government of India
Ministry of Environment, Forest and Climate Change**

Dear Sir/Madam

Please find attached a copy of the
provisionally admitted **Rajya Sabha Question Starred Diary No.
21** to be answered on 01/08/2024 on "**Conservation efforts of
threatened species found in India in IUCN red list**".

It is requested to provide inputs along with supplementary notes for framing
reply to the question at the earliest and preferably
by **Wednesday 24.07.2024**. This may kindly be given TOP
PRIORITY, and a copy of the information may also be forwarded by e-
mail.

With Regards,

Yogender Kumar
ASO(HSMD)
MoEF&CC

Email

Technical Section OSI

Fwd: MOSU URGENT- Rajya Sabha Parliament Question Starred Diary No. 21 to be answered on 01/08/2024

From : ssdash2002@gmail.com Mon, Jul 22, 2024 04:23 PM
Subject : Fwd: MOSU URGENT- 1 attachment
Rajya Sabha Parliament
Question Starred Diary
No. 21 to be answered
on 01/08/2024
To : Technical Section BSI
<tech@bsi.gov.in>

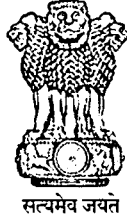
----- Forwarded message -----

From: **ADMIN BSI** <admin@bsi.gov.in>
Date: Mon, 22 Jul, 2024, 4:03 PM
Subject: Fwd: MOSU URGENT- Rajya Sabha Parliament
Question Starred Diary No. 21 to be answered on
01/08/2024
To: Sudhir Kumar Yadav <skyadav@bsi.gov.in>, ssdash2002
<ssdash2002@gmail.com>

From: "YOGENDER KUMAR" <yogender.72@gov.in>
To: "RAGHU KUMAR KODALI" <Kodali.rk@gov.in>, "Sujit
Kumar Bajpayee" <Sujit.baju@gov.in>, "DHRITI BANERJEE"
<director@zsi.gov.in>, "Ashiho Asosii Mao"
<hq@bsi.gov.in>, "ADMIN BSI" <admin@bsi.gov.in>
Cc: "Nameeta Prasad" <nameeta.prasad@gov.in>,



File



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA
सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX
तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING
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Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI-286/1 (Parl.) / 2024 -Tech. / 1473

दिनांक/Date : 30 July-2024

सेवा में / To

The Secretary
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan, Jor Bagh Road
New Delhi - 110003

(Kind attention: Ms. Nameeta Prasad, Joint Secretary (CS-II), MoEF&CC, New Delhi)

Subject: Rajya Sabha provisionally admitted Unstarred Question No.3081 for 08/08/2024 regarding 'Conservation of Indian Botanical Garden'-reg.

महोदया/ Madam,

With reference to your email dated 29.07.2024 on the above mentioned subject, I am directed to furnish herewith the following information for your kind perusal and necessary action as follows:

A. What measures are being taken by the Union Government to ensure the conservation and preservation of rare plant species at the Indian Botanic Garden?

Answer: The Acharya Jagadish Chandra Bose Indian Botanic Garden, Howrah, under the directorate of Botanical Survey of India, and Ministry of Environment, Forest and Climate Change, Government of India, New Delhi, is one of the largest botanic garden in Asia and devoted to conservation of endemic, threatened, medicinal and economically important plants from around the globe as its regular mandate through introduction, maintenance, nurturing and multiplication by different propagation techniques.

The garden was heavily damaged due to devastating effect of Amphan in 2020. However, the garden is now almost restored with meticulous efforts and endeavors of the garden authority, which are as follows:

- A huge numbers of man power and machineries were deployed at the AJC Bose Indian Botanic Garden, Howrah to recover it from the devastating damage of the super cyclone Amphan.
- The garden receives funding through the annual budget allotted to the Botanical Survey of India for its maintenance and smooth functioning.

- c. It receives financial funding from internal project funding of Botanical Survey of India through **Annual Research Programme (ARP)**, under which several projects viz, 1. **Introduction and *ex-situ* conservation of EET species in AJC Bose Indian Botanic Garden**; 2. **Development and Maintenance of Aquatic Plant Section in AJCBIBG**; 3. ***Ex-situ* Conservation, Propagation techniques and Taxonomic studies of the genus *Thunbergia* Terz. (Acanthaceae) in India, etc. are being carried out.**
- d. Additionally, the garden recently received funding from the Ministry of Environment, Forest & Climate Change (MoEF&CC), Government of India, New Delhi, through Assistance to Botanic Garden (ABG) Scheme for development of modern facilities in the garden to elevate and expedite the conservation programs.
- e. Two nurseries present in the AJC Bose Indian Botanic garden has recently been modernized and equipped with machineries needed for continuous propagation of endemic, threatened, medicinal and economically important plants. A modern poly house, conservatories, Orchidarium, several shade nets have been constructed for betterment of the conservation and propagation of the introduced species.
- f. About 3000 species of plants, including many plant species under endemic, threatened, medicinal and economically important category viz. *Amherstia nobilis* (Flowers of Heaven; Extinct in Wild), *Commiphora wightii* (Guggul; Critically Endangered), *Pterocarpus santalinus* (Red Sanders; Endemic and Endangered), *Santalum album* (Chandan; Vulnerable), *Hydnocarpus pentandrus* (Wild almond or Chalmogra; Vulnerable), *Swietenia macrophylla* (Big leaved mahogany; Endangered), *Swietenia mahogany* (Mahogan; Near Threatened), *Tectona grandis* (Teak; Endangered), *Saraca asoca* (Sita-Ashok; Vulnerable), *Adonidia merrillii* (Golden Palm; Vulnerable), etc. are being conserved in this garden and regularly propagated through different techniques to raise saplings. Many of such are being distributed to different regional centers of BSI, as well as to different institutions of national and international repute for re-introduction as well as for effective conservation of germplasm.
- g. The introduced and propagated plants in the AJC Bose Indian Botanic Garden are primarily monitored and nurtured in two nurseries and plant introduction section; and eventually transferred to the different divisions of the garden. During this whole period, several attributes such as, phenological data, plant health, are being regularly monitored as one of the regular duties of the garden and garden management.

B. How is the Ministry addressing the concerns about the loss of green cover and biodiversity in the Indian Botanic Garden?

Answer: The AJC Bose Indian Botanic Garden has been meticulously devoted to recover from the devastated loss of green cover and biodiversity due to various natural hazards, mainly severe storms and cyclones like Amphan; as the establishment is situated at Howrah, very near to Bay of Bengal, and prone to these kinds of tropical cyclones.

To recover from the heavy loss of the plant wealth of AJCBIBG due to Amphan the following actions were up-taken by the competent authority –

- a. A substantial numbers of man power and machineries were deployed immediately.
- b. More than 500 species were replaced, reintroduced and reestablished in the garden.
- c. Both the nurseries present in the AJC Bose Indian Botanic garden were modernized and equipped with machineries needed for continuous propagation of plants to introduce to the several divisions of the garden.
- d. A modern poly house, conservatories, several shadenets have been constructed for betterment of the conservation and propagation of the introduced species.
- e. A total of 154 species were damaged during Amphan out of which 18 species were categorised under IUCN red list in Endangered, Threatened, Vulnerable and Endemic category. All of them were re-introduced.
- f. A total of 11 species were vulnerable, and 1 species, *Amherstia nobilis* Wall. is Extinct from wild. All are reintroduced under the Annual Action Plan Project “Introduction and ex-situ conservation of EET species in AJC Bose Indian Botanic Garden.” Also, *Amherstia nobilis* has been multiplied by air layering and saplings were maintained in Nursery 1; many of which were planted throughout the garden in several occasion.
- g. Under the Annual Action Plan Project “Introduction and *ex-situ* conservation of EET species in AJC Bose Indian Botanic Garden,” a total number of 12 live plant collection tours were undertaken by the scientists and other scientific staff from 2022 to 2024. A total number of 429 species were collected during 2022-2023 and 374 species were collected during 2023-2024, out of which 468 species are New to AJCBIBG. 36 species were categorised under IUCN red list.
- h. Additionally AJC Bose Indian Botanic Garden has now developed an Orchidarium of apprx. 3000 sq. ft., in Nursery-I. More than 50 species of orchids are conserved and preserved therein.

C. Can the Union Government provide an update on the maintenance and restoration efforts for heritage structures within the AJC Bose Indian Botanic Garden, such as Roxburgh House?

Answer: Yes. The important updates on the maintenance and restoration efforts for heritage structures within the AJC Bose Indian Botanic Garden, such as Roxburgh House etc. are given below:

- a. The establishments within the area of AJC Bose Indian Botanic Garden, Howrah, especially the Roxburgh House is under process for restoration through CSR funding by Alleya and Associates. An MoU in this regard was signed between BSI and the Consortium of Simpson & Brown LLP, Architects of Edinburgh and Alleya & Associates of Kolkata on 19th October, 2019, which was renewed on 1st December, 2023 for the period of 5 years.
- b. Furthermore, Botanical Survey of India has also initiated restoration works for other buildings and architectures such as, Assistant Curator Building, PRO office, Dispensary Building, which are already in process through Calcutta Electric Supply Corporation (India) Ltd. (CESC).

- c. Additionally, the lakes, water bodies and sluice channels, its gates and pump are being restored with CSR funding from HSBC and executed by INTACH.

D. How does the Government plan to balance the need for visitor attraction with the primary goal of conservation and research at the Indian Botanic Garden?

Answer: The Acharya Jagadish Chandra Bose Indian Botanic Garden, Howrah, under the directorate of Botanical Survey of India, has been regularly paying its attention towards the basic necessities of visitors but with its major focus on its primary mandate of conservation and research on plant wealth of India.

- a. To facilitate the visitors, new drinking water units, benches, and directional signage's have been installed at various places of the garden.
- b. Roads, toilets, and walking paths have been restored.
- c. Cafeteria has been repaired and renovated keeping in view of the needs of the visitors.
- d. Procurement of battery operated vehicles are under process to facilitate elderly, physically specially able and children for their ease during visiting the garden.
- e. New sections, such as Janaki Ammal Rosarium with more than 350 cultivars of Roses, Hibiscus section with more than 100 cultivars and 10 wild species of *Hibiscus*, Nature Trail, an aquatic plant section, wild edible fruits, wild Banana sections etc. untouched forested area neighboring hustling twin cities of Howrah and Kolkata have been developed within the garden for the attraction of the visitors. Regular cross-pollination and hybridization techniques are being carried out to develop new cultivar varieties of Roses and Hibiscus, which are of immense interest to the common people and visitors.
- f. Additionally, to elucidate the importance of wild edible fruits of our country which are now hardly known to the common people, a new section has been developed devoted to conserve such plants.
- g. Also, Charaka Udyan, the medicinal plant section of the garden has been extended with 200 more beds to accommodate with more medicinally important plants of the nation and to conserve as well as enrich the knowledge of visitors.
- h. As students and researchers of botany, especially plant taxonomy regularly visit this garden for their educational purpose, a new section devoted to complete their educational need has been under construction where the section is designed to accommodate plants of 175 families present in India arranged according to Bentham & Hooker's System of Classification which is one of the most followed classification system by the field taxonomists.
- i. Plant Molecular Laboratories has been established for undertaking molecular studies of plants.
- j. Regularly, students, researchers and faculties from various institutions across the nation, are attended by the scientific staff to make them familiar with the plants conserved in the garden. Also, time to time several awareness programmes are conducted for the visitors under several Government schemes viz. Swachhata

Campaign, Mission LiFE *etc*, and celebration of different programmes such as, World Environment Day, Van Mahotsav, *etc*.

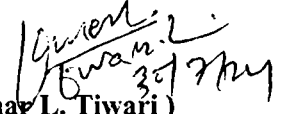
This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय/Yours sincerely


(उमेशकुमार ल. तिवारी / Umeshkumar L. Tiwari)

वैज्ञानिक डी / Scientist 'D'

For, (प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

Email**Technical Section BSI**

Re: Rajya Sabha provisionally admitted Starred Q. Dy. No. 3081 for 08.08.2024

From : Technical Section BSI
<tech@bsi.gov.in>

Tue, Jul 30, 2024 06:29 PM

2 attachments

Subject : Re: Rajya Sabha
provisionally admitted
Starred Q. Dy. No. 3081
for 08.08.2024**To :** sobsi2012@gmail.com,
Nameeta Prasad
<nameeta.prasad@gov.i
n>, rs dot bora
<rs.bora@nic.in>**Cc :** Ashiho Asosii Mao
<hq@bsi.gov.in>, Dr
Sudhansu Sekhar Dash
<ssdash@bsi.gov.in>,
Umeshkumar L. Tiwari
<ukltiwari@bsi.gov.in>,
Devendra Singh
<dsingh@bsi.gov.in>

Madam,

With reference to your email dated 29.07.2024 on the above mentioned subject, I am directed to send herewith the reply of the information pertaining to Rajya Sabha provisionally admitted Unstarred Question No. **3081** for 08/08/2024 regarding **'Conservation of Indian Botanical Garden'** for your kind perusal.

The signed copy of the letter and softcopy (wordfile) are also attached, which may be perused please.
Thanking You,

With regards,
Dr. Sudhir Kr. Yadav
Botanist, HQ

.....
Technical Section

Botanical Survey of India, HQ
Salt Lake City, Kolkata - 700 064

Emails: *tech@bsi.gov.in ; tech.bsi2021@gmail.com*

From: sobsi2012@gmail.com

To: "Dr C Murugan" <cmurugan@bsi.gov.in>, "Hoo, BSI Hqrs" <hoo-hqrs@bsi.gov.in>, "Ashiho Asosii Mao" <hq@bsi.gov.in>, "Technical Section BSI" <tech@bsi.gov.in>, "Dr Sudhansu Sekhar Dash" <ssdash@bsi.gov.in>, "Devendra Singh" <dsingh@bsi.gov.in>, hoo-ajcb@bsi.gov.in

Cc: "rs dot bora" <rs.bora@nic.in>, "Nameeta Prasad" <nameeta.prasad@gov.in>, "manishaolhyan 17" <manishaolhyan.17@gmail.com>

Sent: Monday, July 29, 2024 9:55:27 AM

Subject: Rajya Sabha provisionally admitted Starred Q. Dy. No. 3081 for 08.08.2024

PARLIAMENT MATTER
URGENT

Sir,

Please find attached a copy of Rajya Sabha provisionally admitted Starred Q. Dy. No. 3081 for 08.08.2024 regarding "Conservation of Indian Botanic Garden". You are requested to furnish information for framing a reply to this question and also furnish a brief note & supplementary question and answers (being a starred Dy.). This may be treated as URGENT.

Regards,

Deepali Goel,
Section Officer (CS-II),
MoEF&CC

 **Parliament reply, BSI - IBG.pdf**
379 KB

 **BSI parliamentary reply -IBG.docx**
199 KB

From : Technical Section BSI Mon, Jul 29, 2024 10:58 AM
<tech@bsi.gov.in>  1 attachment

Subject : Fwd: Rajya Sabha
provisionally admitted
Starred Q. Dy. No. 3081
for 08.08.2024

To : Umeshkumar L. Tiwari
<ukltiwari@bsi.gov.in>,
Umeshkumar L. Tiwari
<ukltiwari@bsi.gov.in>

.....
Technical Section
Botanical Survey of India, HQ
Salt Lake City, Kolkata - 700 064

Emails: *tech@bsi.gov.in ; tech.bsi2021@gmail.com*

From: sobsi2012@gmail.com

To: "Dr C Murugan" <cmurugan@bsi.gov.in>, "Hoo, BSI Hqrs" <hoo-hqrs@bsi.gov.in>, "Ashiho Asosii Mao" <hq@bsi.gov.in>, "Technical Section BSI" <tech@bsi.gov.in>, "Dr Sudhansu Sekhar Dash" <ssdash@bsi.gov.in>, "Devendra Singh" <dsingh@bsi.gov.in>, hoo-ajcb@bsi.gov.in

Cc: "rs dot bora" <rs.bora@nic.in>, "Nameeta Prasad" <nameeta.prasad@gov.in>, "manishaolhyan 17" <manishaolhyan.17@gmail.com>

Sent: Monday, July 29, 2024 9:55:27 AM

Subject: Rajya Sabha provisionally admitted Starred Q. Dy. No. 3081 for 08.08.2024

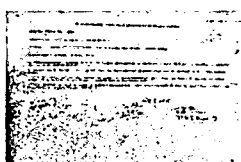
**PARLIAMENT MATTER
URGENT**

Sir,

Please find attached a copy of Rajya Sabha provisionally admitted Starred Q. Dy. No. 3081 for 08.08.2024 regarding "Conservation of Indian Botanic Garden". You are requested to furnish information for framing a reply to this question and also furnish a brief note & supplementary question and answers (being a starred Dy.). This may be treated as URGENT.

Regards,

Deepali Goel,
Section Officer (CS-II),
MoEF&CC



IMG-20240729-WA0001.jpg
138 KB

● **From :** sobsi2012@gmail.com Mon, Jul 29, 2024 09:48 AM
Subject : Rajya Sabha 1 attachment

provisionally admitted
Starred Q. Dy. No. 3081
for 08.08.2024

To : Dr C Murugan
<cmurugan@bsi.gov.in>, Hoo, BSI Hqrs <hoo-hqrs@bsi.gov.in>, Ashiho Asosii Mao <hq@bsi.gov.in>, Technical Section BSI <tech@bsi.gov.in>, Dr Sudhansu Sekhar Dash <:ssdash@bsi.gov.in>, Devendra Singh <dsingh@bsi.gov.in>, hoo-ajcb@bsi.gov.in

Cc : rs dot bora <rs.bora@nic.in>, Nameeta Prasad <nameeta.prasad@gov.in>, manishaolhyan 17 <manishaolhyan.17@gmail.com>

**PARLIAMENT MATTER
URGENT**

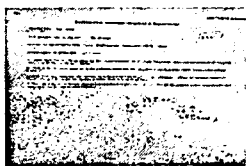
Sir,

Please find attached a copy of Rajya Sabha provisionally admitted Starred Q. Dy. No. 3081 for 08.08.2024 regarding "Conservation of Indian Botanic Garden". You are requested to furnish information for framing a reply to this question

and also furnish a brief note & supplementary question and answers (being a starred Dy.). This may be treated as URGENT.

Regards,

Deepali Goel,
Section Officer (CS-II),
MoEF&CC



IMG-20240729-WA0001.jpg

138 KB

Email

Technical Section BSI

Rajya Sabha provisionally admitted Starred Q. Dy. No. 3081 for 08.08.2024

From : sobsi2012@gmail.com Mon, Jul 29, 2024 09:48 AM
Subject : Rajya Sabha 1 attachment
 provisionally admitted
 Starred Q. Dy. No. 3081
 for 08.08.2024

To : Dr C Murugan
 <cmurugan@bsi.gov.in>, Hoo, BSI Hqrs <hoo-hqrs@bsi.gov.in>, Ashiho Asosii Mao <hq@bsi.gov.in>, Technical Section BSI <tech@bsi.gov.in>, Dr Sudhansu Sekhar Dash <ssdash@bsi.gov.in>, Devendra Singh <dsingh@bsi.gov.in>, hoo-ajcb@bsi.gov.in

Cc : rs dot bora
 <rs.bora@nic.in>, Nameeta Prasad <nameeta.prasad@gov.in>, manishaolhyan 17 <manishaolhyan.17@gmail.com>

Dr. Sudhansu P. put up.
 29/7/24

Pennam
 Sudh PLS put up w/ notip.
 29/7/2024

TECHNICAL SECTION, OFFICE OF DIRECTOR, BSI,	
Dy. No.	T-692
Date	29.07.2024

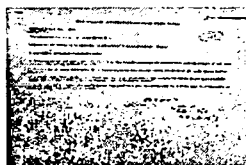
**PARLIAMENT MATTER
 URGENT**

Sir,

Please find attached a copy of Rajya Sabha provisionally admitted Starred Q. Dy. No. 3081 for 08.08.2024 regarding "Conservation of Indian Botanic Garden". You are requested to furnish information for framing a reply to this question and also furnish a brief note & supplementary question and answers (being a starred Dy.). This may be treated as URGENT.

Regards,

Deepali Goel,
Section Officer (CS-II),
MoEF&CC



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138 KB

Provisionally Admitted Questions in Rajya Sabha

starred Diary No. - 3081

The Question will be put down for 08/08/2024

Answer on the Ministry Department - Environment, Forest and Climate Change

Conservation of Indian Botanical Garden

A. What measures are being taken by the Union Government to ensure the conservation and preservation of rare plant species at the Indian Botanic Garden?

B. How is the Ministry addressing the concerns about the loss of green cover and biodiversity in the Indian Botanic Garden?

C. Can the Union Government provide an update on the maintenance and restoration efforts for heritage structures within the AJC Bose Indian Botanic Garden, such as Roxburgh House?

D. How does the Government plan to balance the need for visitor attraction with the primary goal of conservation and research at the Indian Botanic Garden?

141/2412
26/7/24

JS [NRP]
1/11/21
29/7

26-7-24
US [Law]



पश्चिम बंगाल WEST BENGAL

AN 342301

RENEWAL OF
MEMORANDUM OF UNDERSTANDING

Between the
BOTANICAL SURVEY OF INDIA
AND

CONSORTIUM OF SIMPSON & BROWN LLP, ARCHITECTS OF
EDINBURGH and ALLEYA AND ASSOCIATES OF KOLKATA

THIS MOU is made on the 19th day of October 2019 between the Botanical Survey of India (Hereinafter called BSI), the apex taxonomic research Organization under Ministry of Environment, Forest & Climate Change having its head office at CGO Complex, 3rd MSO Building, DF Block, Sector -1, Salt Lake City, Kolkata – 700064 and Acharya Jagadish Chandra Bose Indian Botanic Garden, Shibpur, Howrah – 711103 (Hereinafter called AJCBIBG), represented by the Director, BSI which term shall mean and include its successors, administrators, executors and assignees hereinafter called the party of the FIRST PART, and the consortium of Simpson & Brown LLP, architects of Edinburgh and Alleya and Associates of Kolkata

2531

08 NOV 2023

অবস্থা - RSI (810 Complex)

স্থান - Salt Lake Sec-7 Kolkata -

বৃষ্টি - 100 টাকায় - 70004

প্রাপ্ত ভোগের নাম

অনুলিপি সরকার

স্বাক্ষর

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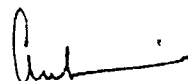
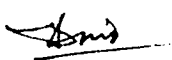
[hereinafter referred to as S&B+Alleya], the former having its office at The Old Printworks, 77a Burnswick Street, Edinburgh EH7, 5HS, Scotland, United Kingdom and the latter having its office at 28/7, Plot No. 296, Sahapur Colony East, Block J, New Alipore, Kolkata — 700 053. The consortium being hereinafter referred to as "S&B+Alleya" represented herein by ASHISH SHARAN LAL, Proprietor, M/S. Alleya and Associates, duly authorised in this behalf by S&B+Alleya which expression unless repugnant to the context or meaning thereof shall mean and include its successors and permitted assignees hereinafter called the party of the SECOND PART, is hereby renewed on this 15th day of December 2023 for the period of 5 years.

WHEREAS, BSI has agreed to allow S&B+Alleya to carry out Roxburgh International Hub Project (RIH Project) which shall include the repairs and renovation the three old buildings and their surroundings. The buildings ranging 100 to 200 years old and are in very dilapidated conditions and known as: -

1. Roxburgh House G+2
2. Herbarium Cum Library Building and
3. Old Seed House G+1 within the premises of Botanical Garden

The scope of work for the RIH project outlined below and duly approved by Competent Authority, hereinafter referred to as the Project and whereas party of the Second Part, (S&B+Alleya) has agreed to undertake and complete the works accordingly on the terms and conditions set forth. NOW, IT IS HEREBY AGREED BY AND BETWEEN THE TWO PARTIES HERETO AS UNDER:

1. The RIH Project shall entail repair, renovation and rehabilitation of aforesaid three Buildings as well as other works in the contiguous open spaces, to accommodate museums, research centres, galleries, visitor facilities etc. as set out in the RIH Project Report.
2. The RIH Project was originated by party of the Second Part (S&B+Alleya), and presented to the First Party, the BSI, in the form of a Project Report in September 2018 and was accorded 'Administrative Approval by the Ministry of Environment, Forest & Climate Change, Government of India vide its letter dated 11th March, 2019.
3. The party of the Second Part, (S&B+Alleya) shall act as lead consultant for the RIH Project including but not restricted to, strategizing the Project, creating the content for



Email**Technical Section BSI**

Fwd: Answers of the Provisionally Admitted Questions on Rajya Sabha on the Ministry Department - Environment, Forests and Climate Change - Starred Diary No. 3081 - reg.

From : aamao2008@gmail.com Tue, Jul 30, 2024 11:43 AM

Subject : Fwd: Answers of the Provisionally Admitted Questions on Rajya Sabha on the Ministry Department - Environment, Forests and Climate Change - Starred Diary No. 3081 - reg.  1 attachment

To : Technical Section BSI
<tech@bsi.gov.in>,
tigerumesh11@gmail.co
m,
ssdash2002@gmail.com

For immediate action pl.

Dr. Ashiho A. Mao

Director, Botanical Survey of India

CGO Complex, 3rd MSO Building, Block F, 5th & 6th Floor

DF Block, Sector-I, Salt Lake City, Kolkata -700064, India

----- Forwarded message -----

From: **IBG** <ibg_bsi@rediffmail.com>

Date: Mon, Jul 29, 2024 at 5:53 PM

Subject: Answers of the Provisionally Admitted Questions on Rajya Sabha on the Ministry Department - Environment, Forests and Climate Change - Starred Diary No. 3081 - reg.

To: aamao2008 <aamao2008@gmail.com>, aamao2001 <aamao2001@yahoo.co.in>, aamao <aamao@bsi.gov.in>

Cc: singhdrds <singhdrds@rediffmail.com>

Sir,

With reference to the above mentioned subject, please find the attached file for your kind perusal.

Thanking you,

**Botanical Survey of India
AJC Bose Indian Botanic Garden
Howrah - 711 103**

**Provisionally_Admitted_Questions_on_Rajya_Sab
- ha.doc**
41 KB

Provisionally Admitted Questions on Rajya Sabha

Starred Diary No. 3081

Answer on the Ministry Department – Environment, Forest and Climate Change

Conservation of Indian Botanic Garden

- A. What measures are being taken by the Union Government to ensure the conservation and preservation of rare plant species at the Indian Botanic Garden?**

Acharya Jagadish Chandra Bose Indian Botanic Garden, Howrah, under the directorate of Botanical Survey of India, and Ministry of Environment, Forest and Climate Change, Government of India, New Delhi, is the largest botanic garden in the Asia and devoted to conservation of endemic, threatened, medicinal and economically important plants from around the globe as its regular mandate through introduction, maintenance, nurturing and multiplication by different propagation techniques.

The garden was heavily damaged due to devastating effect of Amphan in 2020. However, the garden is now almost restored with meticulous efforts and endeavors of the garden authority, which are as follows:

- a. A huge numbers of man power and machineries were deployed at the AJC Bose Indian Botanic Garden, Howrah to recover it from the devastating damage of the super cyclone Amphan.
- b. The garden receives funding through the annual budget allotted to the Botanical Survey of India for its maintenance and smooth functioning.
- c. It receives financial funding from internal project funding of Botanical Survey of India through Annual Research Programme (ARP), under which several projects *viz*,
1. **Introduction and *ex-situ* conservation of EET species in AJC Bose Indian Botanic Garden;** 2. **Development and Maintenance of Aquatic Plant Section in AJCBIBG;** 3. ***Ex-situ* Conservation, Propagation techniques and Taxonomic studies of the genus *Thunbergia* Terz. (Acanthaceae) in India, etc.** are being carried out.
- d. Additionally, the garden recently received funding from the Ministry of Environment, Forest & Climate Change (MoEF&CC), Government of India, New Delhi, through Assistance to Botanic Garden (ABG) Scheme for development of modern facilities in the garden to elevate and expedite the conservation techniques.
- e. Two nurseries present in the AJC Bose Indian Botanic garden has recently been modernized and equipped with machineries needed for continuous propagation of endemic, threatened, medicinal and economically important plants. A modern poly

- house, conservatories, Orchidarium, several shadenets have been constructed for betterment of the conservation and propagation of the introduced species.
- f. Many plant species under endemic, threatened, medicinal and economically important category viz. *Amherstia nobilis* (Flowers of Heaven; Extinct in Wild), *Commiphora wightii* (Guggul; Critically Endangered), *Pterocarpus santalinus* (Red Sanders; Endemic and Endangered), *Santalum album* (Chandan; Vulnerable), *Hydnocarpus pentandrus* (Wild almond or Chalmogra; Vulnerable), *Swietenia macrophylla* (Big leaved mahogany; Endangered), *Swietenia mahogany* (Mahogan; Near Threatened), *Tectona grandis* (Teak; Endangered), *Saraca asoca* (Sita-Ashok; Vulnerable), *Adonidia merrillii* (Golden Palm; Vulnerable), etc. are being conserved in this garden and regularly propagated through different techniques to raise saplings. Many of such are being distributed to different regional centers of BSI, as well as to different institutions of national and international repute for re-introduction as well as for effective conservation of germplasm.
 - g. The introduced and propagated plants in the AJC Bose Indian Botanic Garden are primarily monitored and nurtured in two nurseries and plant introduction section; and eventually transferred to the different divisions of the garden. During this whole period, several attributes such as, phenological data, plant health, are being regularly monitored as one of the regular duties of the garden and garden management.

B. How is the Ministry addressing the concerns about the loss of green cover and biodiversity in the Indian Botanic Garden?

AJC Bose Indian Botanic Garden has been meticulously devoted to recover from the devastated loss of green cover and biodiversity due to various natural hazards, mainly severe storms and cyclones like Amphan; as the establishment is situated at Howrah, very near to Bay of Bengal, and prone to these kinds of tropical cyclones.

To recover from the heavy loss of the plant wealth of AJCBIBG due to Amphan the following actions were up-taken by the competent authority –

- a. A substantial numbers of man power and machineries were deployed immediately.
- b. More than 500 species were replaced, reintroduced and reestablished in the garden.
- c. Both the nurseries present in the AJC Bose Indian Botanic garden were modernized and equipped with machineries needed for continuous propagation of plants to introduce to the several divisions of the garden.
- d. A modern poly house, conservatories, several shadenets have been constructed for betterment of the conservation and propagation of the introduced species.
- e. A total of 154 species were damaged during Amphan out of which 18 species were categorised under IUCN red list in Endangered, Threatened, Vulnerable and Endemic category. All of them were re-introduced.

- f. A total of 11 species were vulnerable, and 1 species, *Amherstia nobilis* Wall., is Extinct from wild. All are reintroduced under the Annual Action Plan Project “Introduction and ex-situ conservation of RET species in AJC Bose Indian Botanic Garden”. Also, *Amherstia nobilis* has been multiplied by air layering and saplings were maintained in Nursery 1; many of which were planted throughout the garden in several occasion.
- g. Under the Annual Action Plan Project “Introduction and *ex-situ* conservation of RET species in AJC Bose Indian Botanic Garden”, a total number of 12 live plant collection tours were undertaken by the scientists and other scientific staff from 2022 to 2024. A total number of 429 species were collected during 2022-2023 and 374 species were collected during 2023-2024, out of which 468 species are New to AJCBIBG. 36 species were categorised under IUCN red list.
- h. Additionally AJC Bose Indian Botanic Garden has now developed an Orchidarium of apprx. 3000 sq. ft., in Nursery-I. More than 50 species of orchids are conserved and preserved therein.

C. Can the Union Government provide an update on the maintenance and restoration efforts for heritage structures within the AJC Bose Indian Botanic Garden, such as Roxburgh House?

- a. The establishments within the area of AJC Bose Indian Botanic Garden, Howrah, especially the Roxburgh House is under restoration through CSR funding by Alleya and Associates.
- b. Furthermore, Botanical Survey of India has also initiated restoration works for other buildings and architectures such as, Assistant Curator Building, PRO office, Dispensary Building, which are already in process through Central Civil Unit (CCU) and Calcutta Electric Supply Corporation (India) Ltd. (CESC).
- c. Additionally, the lakes, waterbodies and sluice channels, its gates and pump are being restored with the collaborative efforts from INTACH.

D. How does the Government plan to balance the need for visitor attraction with the primary goal of conservation and research at the Indian Botanic Garden?

Acharya Jagadish Chandra Bose Indian Botanic Garden, Howrah, under the directorate of Botanical Survey of India, has been regularly paying its attention towards the basic necessities of visitors but with its major focus on its primary mandate of conservation and research on plant wealth of India.

- a. To facilitate the visitors, new drinking water units, benches and directional singages have been installed at various places of the garden.
- b. Roads, toilets and walking paths have been restored.

- c. Cafeteria has been repaired and renovated keeping in view of the needs of the visitors.
- d. Procurement of battery operated vehicles are under process to facilitate elderly, physically specially able and children for their ease during visiting the garden.
- e. New sections, such as Janaki Ammal Rosarium with more than 250 cultivars of Roses, Hibiscus section with more than 100 cultivars and 10 wild species of *Hibiscus*, Nature Trail, an untouched forested area neighbouring hustling twin cities of Howrah and Kolkata have been developed within the garden for the attraction of the visitors. Regular cross-pollination and hybridization techniques are being carried out to develop new cultivar varieties of Roses and Hibiscus, which are of immense interest to the common people and visitors.
- f. Additionally, to elucidate the importance of wild edible fruits of our country which are now hardly known to the common people, a new section has been developed devoted to conserve such plants.
- g. Also, Charaka Udyan, the medicinal plant section of the garden has been extended with 200 more beds to accommodate with more medicinally important plants of the nation and to conserve as well as enrich the knowledge of visitors.
- h. As students and researchers of botany, especially plant taxonomy regularly visit this garden for their educational purpose, a new section devoted to complete their educational need has been under construction where the section is designed to accommodate plants of 175 families present in India arranged according to Bentham & Hooker's System of Classification which is one of the most followed classification system by the field taxonomists.
- i. Regularly, students, researchers and faculties from various institutions across the nation, are attended by the scientific staff to make them familiar with the plants conserved in the garden. Also, time to time several awareness programmes are conducted for the visitors under several Government schemes *viz.* Swachhata Campaign, Mission LiFE *etc.* and celebration of different programmes such as, World Environment Day, Van Mahotsav, *etc.*



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

FW 096159122 IN



सत्यमेव जयते

स्पीड पोस्ट / SPEED POST



भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA
सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX
तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING
पाँचवाँ और छठा तल / 5TH & 6TH FLOOR
डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I
साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064
Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI-286/1 (Parl.) / 2021 -Tech. / 2272

दिनांक/Date : 19th July 2024

सेवा में / To

The Secretary
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan, Jor Bagh Road
New Delhi - 110003

Subject: Environmental Heritage Sites – reg.
Ref: Rajya Sabha Question Diary No. 778 due for 25.07.2024 regarding -reg-

महोदया / Madam,

With reference to the email dated 16.07.2024 received by this office from dated the Forest Protection Division, Ministry of Environment, Forest & Climate Change in connection to the Rajya Sabha Question Dy. No. 778 due for 25.07.2024 regarding Environmental Heritage Sites, I am directed to furnish herewith the following information for your kind perusal and necessary action as follows:

a) whether the Government mulls creating Environmental Heritage Sites in the country on the line of Heritage Cities, if so, the details thereof;

Answer: The Government of India has identified several heritage sites like the Nanda Devi and Valley of Flowers National Park, Uttarakhand, Great Himalayan National Park, Himachal Pradesh, Keoladeo National Park Rajasthan, Sundarbans National Park, West Bengal, the Western Ghats, Kaziranga Wild Life Sanctuary, Assam, Kanchenjunga National Park, Sikkim etc. which have also been substantiated by the UNESCO. The Government thrives to maintain and restore their glory.

The information related to creating Environmental Heritage Sites in the country on the line of Heritage Cities is not available with BSI.

b) whether the Government takes note of rampant and mindless cutting of trees in urban areas;

Answer: At present, no data regarding this is available with BSI.

c) is there any guidelines to the civic authorities to restrain and avoid cutting of trees of certain age; and

Answer: At present, no data regarding this is available with BSI.

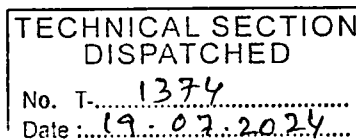
d) whether the Government has any policy and technology to translocate the heritage trees in tact without damaging the avian and other life dependent on a particular tree?

Answer: Not Applicable to BSI

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

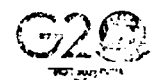
भवदीय/ Yours sincerely



(एस. एस. दाश / S. S. Dash)
वैज्ञानिक एफ / Scientist 'F'

(प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

प्रेषित / DESPATCHED



Living Root Bridge: A preliminary Survey of its Associated Flora

C. Murugan, B.S. Kholia, N. Odyuo, Chaya Deori, J.S. Jalal, David L. Biate, S.R. Talukdar,
Y. Mahesh

Botanical Survey of India

The Living Root Bridges (LRBs) being hundred to several hundred years old (Ludwig et al. 2019) represents unique structural ecosystems formed over centuries. The roots and trunks host different epiphytic plants including mosses, ferns, bryophytes and orchids. Contrary to popular beliefs, these associated plants play an important role in maintaining the health and stability of the LRBs. Besides providing necessary humidity and nutrition to root bridge forming aerial roots, associated ferns also promote the initiation of new aerial rootlets for the strengthening of LRBs and replacement of old decaying or dead roots. Ferns are also known to have antimicrobial properties which help inhibits the growth of many parasitic microbes that could harm the root bridge forming aerial roots. During the survey it was observed that root bridges growing in drier places had fewer associated fern species (LRB 1 &2 near Suthim village just below the camping site) and their root bridge forming aerial roots showed a much severe symptoms of fungal infection, were knotty with stunted growth, had lesser number of new roots and without young emerging aerial roots. On the other hand, the LRBs growing in humid places had several associated fern species and their root bridge forming aerial roots appears healthy with numerous new aerial roots. Further, associated plants growing immediately in the vicinity of the LRBs also directly or indirectly contributes to the health and longevity of the LRBs by ensuring the stability of the soil around the LRBs, and nurturing the river systems that run through these LRBs.

The Botanical Survey of India is one of the oldest and premier research organisations of the country mandated with inventorization of the floristic wealth of the country had since its inception documenting the flora of the country including of Meghalaya state. It has produced voluminous research papers and books on the floristic diversity of the state. The most significant for the state being a comprehensive checklist of flora of Meghalaya authored by Mao et al. (2016).

To explore and document the *Ficus* species used in LRBs and the associated plant diversity within approx. 100 m in and around in the LRBs a team of scientists from Botanical Survey of India with expertise in different groups of plants visited selected LRBs sites during 15- 20 December, 2021. The team visited nine living root bridges in East Khasi Hills district and one bridge in West Jaintia Hills district viz., WahSohot, Umlyngoh, Kutsiej, TyrpaMawloh, JriLyntang 1 and JriLyngtang 2, Mawsiang Pyrdis, Wah Mynrieng Rit, Sui Syngkew and Wah Thyllong. During the survey 149 field numbers of plant specimens were collected belonging to Angiosperms, Gymnosperms and Pteridophytes. The primary species of *Ficus* used in LRBs was identified to be *Ficus elastic* (Family:Moraceae). However, another species *Ficus glaberrima* was also found to be used in atleast one of the LRBs (Mawsiangpyrdis). The Angiospermic flora in vicinity of the LRBs comprises of trees, shrubs, herbs. Some important tree species were *Callicarpa arborea* (raw fruit is edible, roots, leaves, barks medicinal), *Carallia brachiata* (bark medicinal), *Chrysophyllum roxburghii* (fruits edible, roots, leaves

medicinal), *Derris accuminata*, *Syzygium jambos* (fruits edible). Some important shrubs are *Caryota urens*, *Calamus erectus* (roots medicinal), *Clerodendron indicum* (leaves, roots medicinal), *Eurya japonica* (ornamental, leaves medicinal), *Vernonia volkamerifolia* etc. Some important climbers observed were *Hodgsonia heteroclita* (seeds edible), *Parabaena sagittata* (stems, leaves medicinal), *Stephania hernandifolia* (medicinal) etc. Some important herbaceous species are *Aglaonema simplex* (medicinal), *Balanophora indica*, *Disporum calcaratum* (medicinal), *Phrynium puvinerve* (for packing and wrapping food stuff), *Rhynchotechum ellipticum*, *Strobilanthes sabineana* etc. Some epiphytic species were found growing in the branches and trunks of the *Ficus elastica* trees viz., *Hoya* spp., *Piperomia* spp., *Aeschynanthus* spp. etc. Some important orchid species having ornamental and traditional medicinal importance were *Agrostophyllum planicaule*, *Apostasia* sp., *Bulbophyllum gymnopus*, *Cheirostylis* sp., *Eria bambusifolia*, *Gastrochilus* sp., *Dendrobium aphyllum*, *D. densiflorum*, *D. fimbriatum*, *D. ochreatum*, *D. moschatum*, *D. transparens*, *Liparis* sp., *Papilionanthe teres*, *Pleione maculata*, *Tainia* sp. etc. The LRBs being situated in moist and humid riversides represent an ideal habitat for the growth of ferns. Ferns can be used for vegetables, as traditional medicine, roofing, thatching and stuffing material, for making greeting cards, fancy items, and other handcraft. Some of the important ones are *Angiopteris helferiana* (traditional medicine), *Asplenium cheilosorum*, *Blechnum orientale* (medicinal), *Bolbitis appendiculata*, *Botrychium daucifolium*, *Coniogramme fraxinea*, *Diplazium dilatatum* (edible), *Dryopteris sparsa*, *Huperzia pulcherrima*, *Lemmaphyllum carnosum*, *Leptochilus pteropus* subsp. *minor*, *Lindsaea ensifolia* (medicinal), *Lygodium salicifolium*, *Mickelopteris cordata*, *Microlepia rhomboidea*, *Polystichum discretum*, *Pteridium revolutum*, *Pteris aspericaulis*, *Selaginella delicatula* (traditional medicine) etc. Three rare species were collected viz., *Podocarpus nerifolius* (on the way to Tyrtamawloh-livingroot bridge), *Aesculus assamicus* (near to Mawsiang pyrdi livingroot bridge), *Areca triandra* (on the way to Tyrtpa mawloh living root bridge), one interesting orchid species *Sathoglottis affinis* new to India was also observed in the vicinity of the Sui Synkew Living Root Bridge, Kudengthymmai Village, West Jaintia Hills. Some tree species viz. *Ostodes paniculata*, *Aesculus assamica*, *Podocarpus nerifolius* were identified which could be suitable for propagation and plantation around the LRBs.

The associated plants in and around the LRBs including those growing in the roots and trunks of the *Ficus* species directly or indirectly contributes to the health and longevity of the LRBs. Scientific identification and documentation of these associated plants is therefore important for better understanding the LRBs ecosystems, for assessing the economical and medicinal wealth these LRBs supports, and for identification of potential plant species that could be propagated and reintroduced in degraded LRBs sites to maintain the health and longevity of these LRBs.

Acknowledgements

Authors are thankful to Director, BSI for kind support and permission, Team members of MCLLMP, villagers and volunteers of Lait Shuthim, Shuthim, Mynrieng and Kudengthymmai for their help and support throughout the tour.

Glossary

Angiosperms: Angio- enclosed; Sperma-Seed: A plant that have flowers, and produce seeds enclosed within a carpel.

Gymnosperms: Gymnos-Naked; sperma-seed: A plant that have seeds unprotected by an ovary or fruit.

Pteridophytes: Pterido- Fern; Phyte-Plant: Plant which produce neither flowers nor seeds.

Parasite: An organism that lives in or on an organism of another species (its host) and benefits by deriving some or all of its nutritional requirement from another living organism.

Microbes: Mikros-small; Bios-life: A microorganism, or microbe, is an organism of microscopic size, which may exist in its single-celled form or as a colony of cells.

Rajya Sabha Question Dy. No. 778 due for 25.07.2024 regarding Environmental Heritage Sites

From : FOREST PROTECTION DIVISON <fpd-moefcc@gov.in>

Thu, Jul 18, 2024 03:41 PM

2 attachments

Subject : Rajya Sabha Question Dy. No. 778 due for 25.07.2024 regarding Environmental Heritage Sites

To : R Raghu Prasad

<raghu.prasad@gov.in>, nmnhcell@gmail.com, DG FSI <dgfsi@fsi.nic.in>, Technical Section BSI <tech@bsi.gov.in>, Secretary ICFRE <sec-icfre@gov.in>, dg@icfre.org, Chiranjiv Choudhary, IFS <prlccf_hf_apfd@ap.gov.in>, Shri Rajpal Singh, IFS <hoff-assam@gov.in>, pccfbihar@gmail.com, Shri V. Sreenivasa Rao, I.F.S.. <pccf-fhq@cg.gov.in>, cgpccf forest <cgpccf.forest@gmail.com>, Suneesh Buxy <Pccf-gnctd@delhi.gov.in>, Principal Chief Conservator Forest Dept Goa <pccf-fore.goa@gov.in>, Pccf fst hoff <Pccf.fst.hoff@gmail.com>, papccf@gmail.com, Rajiv Kumar <pccf-hp@nic.in>, pccfjkforest@gmail.com, pccfJharkhand@yahoo.co.in, pccfkar@gmail.com, HoFF Kerala <pccf.for@kerala.gov.in>, PCCF MP PCCF MP P C C F M P <pccfmp@mp.gov.in>, PCCF Hoff Maharashtra Forest Department <pccfhoffngp@Mahaforest.gov.in>, PCCF Manipur <pccf-mn@nic.in>, pccfmegh@gmail.com, mizoramforest@yahoo.co.in, pccfaizawlmizoram@gmail.com, nagaforest@gmail.com, nagalandforestdeptt@hotmail.com, Pccf hoff <Pccf.hoff@odisha.gov.in>,

TECHNICAL SECTION, OFFICE OF DIRECTOR, BSI,	
Dy. No.	T-649
Date	19.07.2024

psmpccfodisha@gmail.com,
pccfhoffpunjab@gmail.com, pccf raj
forest
<pccf.raj.forest@rajasthan.gov.in>,
Forest and Environment Department Gos
<pccf-fewd@sikkim.gov.in>, Forest
tnforest <tnforest@tn.nic.in>,
pccfhod@gmail.com,
pccftelangana@gmail.com,
pccftripura@gmail.com,
pccfuk@gmail.com, PCCF UP <pccf-
up@nic.in>, PCCF HoFF WB
<pccfhoff.office-wb@gov.in>,
pccfani@gmail.com, PCCF Secretary
<pccfnsecy-arn@nic.in>, cf chandigarh
<cf.chandigarh@gmail.com>, Chief
Conservator of Forest <Ccf-dmn-
dd@nic.in>, ASHISH MADHARAO MORE,
IAS <dc.pon@nic.in>, Deputy
Conservator of Forest <Lak-dcf@nic.in>,
ccfladakh@gmail.com, Jitesh Kumar
<forestpolicy-moefcc@gov.in>, Jitesh
Kumar <jitesh.kumar@nic.in>,
Sasikumar C <sasi.kumar@nic.in>,
wii@wii.gov.in, Govind Mohan <secy-
culture@nic.in>

Cc : SANJAY KUMAR CHAUHAN
<sanjay.ifs12@mp.gov.in>, Vinod Kumar
<vinod.75@gov.in>

Most Urgent
Parliament Matter

Respected Madam/ Sir,

The undersigned is directed to refer to **Rajya Sabha Question Diary No. 778 due for 25.07.2024 regarding Environmental Heritage Sites**. The copy of the same is attached.

It is requested that the requisite information on **part (a) to (d)** of the above question **with possible supplementary** may please be furnished on **Email:-fpd-moefcc@gov.in latest by Tomorrow Morning i.e. 19.07.2024.**

This may kindly be treated TOP PRIORITY

With best regards,

Forest Protection Division
Ministry of Environment, Forest and Climate Change
(Government of India)
Mira Paryavarn Bhawan
5th Floor, Agni Wing, Jor Bagh Road
New Delhi-110003
Tel No. 011-20819281



images.jpg
10 KB

RSUQ 778 due for 25.07.24.pdf
290 KB

फाइल संख्या/ File No.: BSI- 286/1 (Parl.) / 2021 -Tech. / 97 दिनांक/Date : 7th March, 2025

सेवा में / To

The Secretary
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan, Jor Bagh Road
New Delhi - 110003

(Kind attention: Ms. Vibhuti Panjiyar, Under Secretary to the Govt. of India, MoEF&CC, New Delhi)

Subject: Rajya Sabha Unstarred D No. 4375 dated 07.03.2025 regarding the Expansion of forest and tree cover for environmental sustainability - reg.

महोदय / Sir,

With reference to your communication, dated 10th March, 2025 regarding 'Expansion of forest and tree cover for environmental sustainability', I am directed to inform that the parliamentary questions sought under the Rajya Sabha Unstarred Question no. 4375 dated 07.03.2025 does not pertain to BSI. Therefore, the reply from BSI may be treated as NIL.

This issues with the approval of Director (I/C), Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय/ Yours sincerely,

भवदीय/Yours sincerely

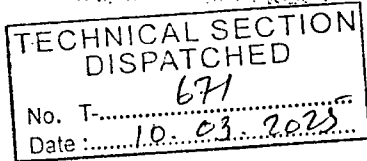
सि. एस. दाश / S. S. Dash

(एस. एस. दाश / S. S. Dash)

वैज्ञानिक/ Scientist

वैज्ञानिक/ Scientist 'F'

(प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)



Parliament Question: RSUQ Dy No. 4375 on Expansion of forest and tree cover for environmental sustainability due for answer on 20/03/2025 - Reg.-



Vibhuti Panjiyar <vibhuti.panjiyar@nic.in>

Mon, 10 Mar 2025 3:36:28 PM +0530 *

To "RanjitKumar Roy" <rk.roy-upsc@gov.in>, "Dr. GURU PADA MANDAL" <hoo@zsi.gov.in>

Cc "DHRITI BANERJEE" <director.zsi@nic.in>, "DHRITI BANERJEE"

<director@zsi.gov.in>, "aamao2008" <aamao2008@gmail.com>, "Ashiho Asosii"

<aamao@bsi.gov.in>, "Hoo, BSI Hqrs" <hoo-hqrs@bsi.gov.in>, "sobsi2012"

<sobsi2012@gmail.com>, "Technical Section BSI" <tech@bsi.gov.in>, "tech.bsi2021"

<tech.bsi2021@gmail.com>, "Technical Section ZSI HQ, Kolkata" <technical@zsi.gov.in>

Sir,

Please refer to the trailing email and attachment on the above subject.

2. In this regard, it is requested to kindly provide the inputs, if any, on the on the above Parliament Question **by 01:00 P.M. of 11.03.2025.**

सधन्यवाद/ Kind regards

विभूति पंजियार/ Vibhuti Panjiyar

अवर सचिव / Under Secretary

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय / Ministry of Environment, Forest and Climate Change

From: moefccnaeb@gmail.com

To: "Directorate of Green India Mission" <gim-mef@nic.in>, "EAP Division" <eap-moefcc@gov.in>, "Shard Sapra" <shard.sapra@nic.in>, "amit raj" <amit.raj1979@nic.in>, "s rajesh Rajesh" <rajesh.skumar@gov.in>, "rs dot bora" <rs.bora@nic.in>, "Vibhuti Panjiyar" <vibhuti.panjiyar@nic.in>

Cc: "Inka Goel" <goel.inka@gov.in>, "PRASHANT RAJAGOPAL" <prashant.rajagopal@nic.in>, "V.L. Roui Kullai" <jgf.naeb@gov.in>

Sent: Monday, March 10, 2025 1:32:57 PM

Subject: RSUQ Dy No. 4375 on Expansion of forest and tree cover for environmental sustainability due for answer on 20/03/2025 - Reg.-

Sir/Madam,

Please find the attachment and provide inputs by tomorrow i.e. 11/03/2025.

Thanks and Regards,

राष्ट्रीय वनीकरण एवं पारिस्थितिकीय विकास बोर्ड (NAEB)

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय (MoEFCC) भारत सरकार

7 वीं मंजिल, पं. दीनदयाल अल्योदय भवन,

सीजीओ कॉम्प्लेक्स, लोदी रोड

नई दिल्ली-110003

Provisionally Admitted Questions in Rajya Sabha

unstarred Diary No. - 4375

The Question will be put down for 20/03/2025

223

Answer on the Ministry Department - Environment, Forest and Climate Change

Expansion of forest and tree cover for environmental sustainability

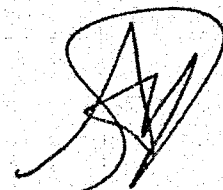
- (a) whether Government has taken steps to expand forest and tree cover in order to enhance environmental sustainability and mitigate climate change;
- (b) if so, the schemes launched to promote afforestation, reforestation and community participation; and
- (c) the manner in which the said efforts would help in improving air quality, groundwater conservation and biodiversity protection?

223/25/Pay
07/03/25

~~IHP (NAEP)~~

10.03.2025

TO (F)
my

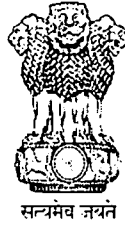


07.03.2025

(अभिमान्यु कुमार शर्मा)
(ABHIMANYU KUMAR SHARMA)
अनुभाग अधिवक्ता/Section Officer
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
M/o Environment, Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

GIM
EAP
CC

CS-II



स्पीड 412 / SPEED POST



भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDINGपाँचवाँ और छठा तल / 5TH & 6TH FLOOR

डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I

साल्टलेक, कोलकाता-६५ / SALT LAKE, KOLKATA - 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI-286/1 (Parl.) / 2024 -Tech. / 2740 दिनांक/Date : 27 Nov 2024

सेवा में/To

The Secretary to the Govt. of India,
Ministry of Environment, Forests & Climate Change
Indira Paryavaran Bhawan,
Jor Bagh Road, Aliganj
New Delhi-110 003

(Kind Attention: Shri. C. Sasikumar, Technical Officer, WL Division, MoEF&CC, New Delhi)

विषय / Sub: Wildlife Division, MoEFCC- Requesting for inputs for Rajya Sabha Starred
Q. Dy. No. 455 for reply on 28th November, 2024 -reg.

महोदया/ Madam,

With reference to your email dated 18.11.2024 on Rajya Sabha Starred Q. Dy.
No. 455 for reply on 28th November, 2024 regarding 'Extinction of wildlife due to pollution',
I am directed to furnish the point wise information as below:

a) The number of species of flora and fauna that have become extinct in the country
over the last five years, and the steps Government is taking to prevent further losses;

Answer: As per the information available in Botanical Survey of India, there is no report
on extinction of any flora in the country over the last five years.

b) Whether Government has conducted any studies on the impact of pollution, including
air, water, and soil contamination, in accelerating the extinction of wildlife species in
the country; and

Answer: This question does not fall under the purview of Botanical Survey of India.

c) Whether in light of growing concerns around 5G technology, Government is
planning to investigate whether radiation from 5G network is affecting the health and
behaviour of wildlife species?

Answer: This question does not fall under the purview of Botanical Survey of India.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

प्रेषित/DESPATCHED

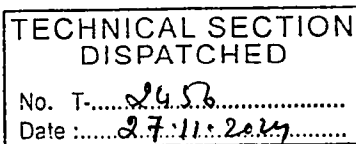
Kunal
28.11.2024

भवदीय / Yours Sincerely,

(एस. एस. दाश / S. S. Dash)

वैज्ञानिक/ Scientist 'F'

(प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA
सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX
तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING
पाँचवाँ और छठा तल / 5TH & 6TH FLOOR
डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR 1
साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064
Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI-286/1 (Parl.) / 2024 -Tech.

दिनांक/Date : Nov 2024

सेवा में/To

The Secretary to the Govt. of India,
Ministry of Environment, Forests & Climate Change
Indira Paryavaran Bhawan,
Jor Bagh Road, Aliganj
New Delhi-110 003

(Kind Attention: Shri. C. Sasikumar, Technical Officer, WL Division, MoEF&CC, New Delhi)

विषय / Sub: Wildlife Division, MoEFCC- Requesting for inputs for Rajya Sabha Starred
Q. Dy. No. 455 for reply on 28th November, 2024 -reg.

महोदया/ Madam,

With reference to your email dated 18.11.2024 on Rajya Sabha Starred Q. Dy. No. 455 for reply on 28th November, 2024 regarding 'Extinction of wildlife due to pollution', I am directed to furnish the point wise information as below:

a) *The number of species of flora and fauna that have become extinct in the country over the last five years, and the steps Government is taking to prevent further losses;*

Answer: As per the information available in Botanical Survey of India, there is no report on extinction of any flora in the country over the last five years.

b) *Whether Government has conducted any studies on the impact of pollution, including air, water, and soil contamination, in accelerating the extinction of wildlife species in the country; and*

Answer: This question does not fall under the purview of Botanical Survey of India.

c) *Whether in light of growing concerns around 5G technology, Government is planning to investigate whether radiation from 5G network is affecting the health and behaviour of wildlife species?*

Answer: This question does not fall under the purview of Botanical Survey of India.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय / Yours sincerely,

(एस. एस. दाश / S. S. Dash)

वैज्ञानिक/ Scientist 'F'

(प्रभारी, तकनीकी अनुभाग / In- charge, Tech. Section)

Approved
27/11/2024

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Fwd: Wildlife Division, MoEFCC- Requesting for inputs for Rajya Sabha Starred Q. Dy. No. 4

availability on the received queries, we request you go through the queries below and respond accordingly.

Thank you for your help.

Regards,
Amir
Programme Officer
WII-EIACP

S. Indu
27/11/2024

----- Original Message -----

SUBJECT:

Wildlife Division, MoEFCC- Requesting for inputs for Rajya Sabha Starred Q. Dy. No. 455 for reply on 28th November 2024-

DATE:

2024-11-18 18:04

FROM:

Sasikumar C <sasi.kumar@nic.in>

TO:

"DHRITI BANERJEE" <director.zsi@nic.in>, "Kailash Chandra" <director@zsi.gov.in>, "Technical HQ" <technical@zsi.gov.in>, "dwii" <dwii@wii.gov.in>, "satyendrakumar07" <satyendra.kumar07@nic.in>, "Amit Love" <amit.love@nic.in>, "Sonu Singh" <sonu.singh@nic.in>

CC:

"R Raghu Prasad" <raghu.prasad@gov.in>, "digwl-mefcc digwl-mefcc" <digwl-mefcc@gov.in>, "Joint Director" <jd-wl@nic.in>, "siddharthwl" <siddharth.singh92@gov.in>

Madam/Sir,

Greetings.

The Ministry of Environment, Forest and Climate Change has received a Rajya Sabha (STARRED) Question Dy. No. 455 due for reply on 28th November 2024 regarding "Extinction of wildlife due to pollution". The text of the question is as follows:

(a) the number of species of flora and fauna that have become extinct in the country over the last five years, and the steps Government is taking to prevent further losses;

(b) whether Government has conducted any studies on the impact of

in:inbox

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Fwd: Wildlife Division, MoEFCC- Requesting for inputs for Rajya Sabha Starred Q. Dy. No. 4

"DHRITI BANERJEE" <director.zsi@nic.in>, "Kailash Chandra" <director@zsi.gov.in>, "Technical HQ" <technical@zsi.gov.in>, "dwii" <dwii@wii.gov.in>, "satyendrakumar07" <satyendra.kumar07@nic.in>, "Amit Love" <amit.love@nic.in>, "Sonu Singh" <sonu.singh@nic.in>

CC:

"R Raghu Prasad" <raghu.prasad@gov.in>, "digwl-mefcc digwl-mefcc" <digwl-mefcc@gov.in>, "Joint Director" <jd-wl@nic.in>, "siddharthwl" <siddharth.singh92@gov.in>

Madam/Sir,

Greetings.

The Ministry of Environment, Forest and Climate Change has received a Rajya Sabha (STARRED) Question Dy. No. 455 due for reply on 28th November 2024 regarding "Extinction of wildlife due to pollution". The text of the question is as follows:

(a) the number of species of flora and fauna that have become extinct in the country over the last five years, and the steps Government is taking to prevent further losses;

(b) whether Government has conducted any studies on the impact of pollution, including air, water, and soil contamination, in accelerating the extinction of wildlife species in the country; and

(c) whether in light of growing concerns around 5G technology, Government is planning to investigate whether radiation from 5G network is affecting the health and behaviour of wildlife species?

In this context, the undersigned is directed to solicit inputs for the above Rajya Sabha (STARRED) Question URGENTLY please.

The inputs may kindly be forwarded to the Deputy Inspector General of Forests (WL) Ministry of Environment, Forest and Climate Change at:

<digwl-mefcc@gov.in>

With regards

C.Sasikumar
Technical Officer (WL)
Wildlife Division,
MoEFCC, New Delhi.

Reply - Reply to All - Forward - More Actions

**Technical Section BSI**

Fwd: Wildlife Division, MoEFCC- Requesting for inputs for Rajya Sabha Starred Q. Dy. No. 455 for reply on 28th November 2024-

From : envis@wii.gov.in

Tue, Nov 26, 2024 12:05 PM

Subject : Fwd: Wildlife Division, MoEFCC- Requesting for inputs for Rajya Sabha Starred Q. Dy. No. 455 for reply on 28th November 2024-

Sindhu
27/11/2024

To : tech bsi2021
<tech.bsi2021@gmail.com>, Technical Section BSI <tech@bsi.gov.in>

Cc : bsienvvis <bsi-env@nic.in>

Dear Sir/Madam,

The Ministry of Environment, Forest, and Climate Change has received some Rajya Sabha questions. As WII-EIACP does not have any specific data availability on the received queries, we request you go through the queries below and respond accordingly.

Thank you for your help.

Regards,
Amir
Programme Officer

WII-EIACP



----- Original Message -----

SUBJECT:

Wildlife Division, MoEFCC- Requesting for
inputs for Rajya Sabha
Starred Q. Dy. No. 455 for reply on 28th November
2024-

DATE:

2024-11-18 18:04

FROM:

Sasikumar C <sasi.kumar@nic.in>

TO:

"DHRITI BANERJEE" <director.zsi@nic.in>,
"Kailash Chandra"
<director@zsi.gov.in>, "Technical HQ"
<technical@zsi.gov.in>, "dwii"
<dwii@wii.gov.in>, "satyendrakumar07"
<satyendra.kumar07@nic.in>, "Amit
Love" <amit.love@nic.in>, "Sonu Singh"
<sonu.singh@nic.in>

CC:

"R Raghu Prasad" <raghu.prasad@gov.in>,
"digwl-mefcc digwl-mefcc"
<digwl-mefcc@gov.in>, "Joint Director" <jd-
wl@nic.in>, "siddharthwl"
<siddharth.singh92@gov.in>

Madam/Sir,

Greetings.

The Ministry of Environment, Forest and Climate Change has received a Rajya Sabha (STARRED) Question Dy. No. 455 due for reply on 28th November 2024 regarding "Extinction of wildlife due to pollution". The text of the question is as follows:

(a) the number of species of flora and fauna that have become extinct in the country over the last five years, and the steps Government is taking to prevent further losses;

(b)whether Government has conducted any studies on the impact of pollution, including air, water, and soil contamination, in accelerating the extinction of wildlife species in the country; and

(c) whether in light of growing concerns around 5G technology, Government is planning to investigate whether radiation from 5G network is affecting the health and behaviour of wildlife species?

In this context, the undersigned is directed to solicit inputs for the above Rajya Sabha (STARRED) Question URGENTLY please.

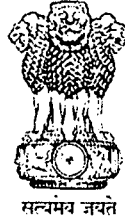
The inputs may kindly be forwarded to the Deputy Inspector General of Forests (WL) Ministry of Environment, Forest and

Climate Change at:

<digwl-mefcc@gov.in>

With regards

C.Sasikumar
Technical Officer (WL)
Wildlife Division,
MoEFCC, New Delhi.



SPEED POST



भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDINGपाँचवाँ और छठा तल / 5TH & 6TH FLOOR

डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I

साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI-286/1 (Parl.) / 2024 -Tech. / 2791 दिनांक/Date : 27 Nov 2024

सेवा में/To

The Secretary to the Govt. of India,
Ministry of Environment, Forests & Climate Change
Indira Paryavaran Bhawan,
Jor Bagh Road, Aliganj
New Delhi-110 003

(Kind attention: Dr. A.N. Shukla, Scientist E (CS-II), MoEF&CC, New Delhi)

Subject: Provisionally admitted questions in Rajya Sabha- unstarred Diary No. - 1192 to be put down for 28/11/2024-reg.

महोदया/ Madam,

With reference to your email, dated 19th Nov, 2024 regarding **Global Nature Conservation Index**, I am directed to furnish the point wise information as below:

(a) *what are the reasons behind India's abysmal rank of 176th out of 180 countries in the Global Nature Conservation Index, 2024*

BSI: The Global Nature Conservation Index (GNCI), which was released recently by Goldman Sonnenfeldt School of Sustainability and Climate Change at Ben-Gurion University and BioDB.com, a biodiversity database, has ranked India at 176th position among the 180th countries. **The ranking in NCI has been done based on four key parameters such as land management, biodiversity threats, capacity and governance, and future trends.** The ranking of the country appears contradictory, due to undermining the countries well-recognized efforts in biodiversity conservation and its achievement in the context of country's vast ecological and socio-political reach out. Besides, selection of unreliable metrics for NCI ranking are the main reasons for India's low ranking as pointed below:

- The NCI's framework principally relies on metrics that may not accurately reflect India's ecological complexities or conservation strategies. For example, significance weightage given to use of pesticides and warns against soil pollution. India has prepared exhaustive soil card for the farmers in each phytogeographic zones, but these data were not been addressed, but only sporadically used the sustainable nitrogen index was used. The vast areas of forest land have not been taken into consideration for this purpose.
- The report gives significant weightage to the proportion of marine protected areas and connected terrestrial habitats. This metrics are less applicable to countries like India, where the terrestrial conservation effort are full-proofed in different phytogeographical regions. Moreover, the conservation criteria used cannot be a suitable for a vast country like Indian and cannot be compared with small countries which are surrounded by sea.

- iii. India is one of the most densely populated countries, with over 1.4 billion people. This population density creates significant spatial challenges, as conservation areas must coexist with agricultural, urban, and rural landscapes essential for human livelihoods. India's success lies in implementing conservation strategies that priorities terrestrial areas without extensive displacement of communities. This unique approach addresses the dual need for biodiversity conservation and human sustenance, which is distinct from countries with lower population density and vast natural reserves.
- iv. Metrics of GNCI has not taken in to account the micro-conservation models in India, such as the Joint Forest Management (JFMs) and eco-development models/practices adopted involving the local inhabitants and communities which manages and conserve more than 22 million hectares of forested land.
- v. These community-driven conservation models are crucial in fragmented landscapes, ensuring biodiversity conservation while empowering local populations. Unlike metrics used in the GNCI that may priorities large, uninterrupted conservation blocks, India's conservation success relies on smaller, community-managed patches that effectively contribute to species protection, habitat preservation and livelihood generation.
- vi. The report shows that between 2001 and 2019 quantity of the deforestation which led to the loss of an astounding 23,300 sq. km of tree cover, but the quantity of forest cover increased due to afforestation programme. More ever as per the FSI 2024 report there is no substantial loss of forest cover in last 2 decades, but there is increasing trend.
- vii. The large network of protected area of India has been underestimated in the GNCI criteria. The conservation efforts for large landscapes declaring WLS and BR are some of efficient program of the Government. India's approach with management plan and livelihood generation in each of these protected areas are praiseworthy. While the GNCI view these protected areas as fragmentation and lowering conservation metric value, India's approach uses these fragmented spaces efficiently to support high biodiversity amidst land-use pressures.
- viii. The country's landscapes are mosaic of agricultural, forested, and semi-natural areas, where spatial fragmentation is inevitable. However, the country effectively mitigates this with corridor development for species like elephants and tigers and conservation reserves that act as ecological stepping stones across fragmented lands. Hence, the GNCI's reliance on metrics like large connected habitats and marine coverage underestimates India's actual conservation outcomes and strengths.

(b) since India's rank at the bottom is mainly attributed to inefficient land management and rising threats to its biodiversity, what measures have the ministry taken up in these areas.

BSI: For efficient land management and rising threats to its biodiversity, the MoEF&CC has taken many initiatives under the various international agreements such as the Convention on Biological Diversity (CBD), Ramsar Convention on Wetlands, and Convention on International Trade in Endangered Species (CITES). These commitments focus on biodiversity conservation, sustainable use of resources, and ecosystem preservation, all aimed at enhancing resilience to climate change and environmental degradation. Further, the country has set ambitious national goals, such as increasing protected area coverage to 10% for terrestrial areas and 5% for marine areas by 2030 under its National Biodiversity Action Plan (NBAP). India has created the National Adaptation Fund for Climate Change and the Green India Mission, both aimed at restoring degraded ecosystems and increasing carbon sequestration through afforestation, which further supports biodiversity. Further, India is also

committed to conserve 30% of the threatened plants in its botanical Garden, reclaim 30% of the degraded land by 2030, and decrease 50% of use of the pesticides in by 2050. Also, India has committed to the Kunming-Montreal Global Biodiversity Framework, which includes biodiversity goals for 2050, integrating it into the 2030 Sustainable Development Goals (SDGs).

(c) what specific measures have been implemented against threat to India's biodiversity, including habitat loss and fragmentation; and

BSI: Some of the important measures taken by the Ministry to safeguard India's biodiversity, including habitat loss and fragmentation comprise regular survey, inventorization, taxonomic validation and threat assessment of floral and faunal resources; assessment of the forest cover to develop an accurate database for planning and monitoring; establishment of Protected Area Network of National Parks, Wildlife Sanctuaries, Conservation and Community Reserves; designating Biosphere Reserves for conservation of representative ecosystems; undertaking of species oriented conservation programmes; *ex-situ* conservation of plants etc.

In addition, The Wild Life (Protection) Act 1972 and the Biological Diversity Act 2002 have also been enacted with the aim to conserve biological resources of the country and regulation of access to these resources to ensure equitable sharing of benefits arising out of their use. Under these acts, the National Biodiversity Authority (NBA) and the State Biodiversity Boards (SBBs) and Biodiversity Management Committees (BMCs) have been set up for implementing the provisions of the Act. Besides, the Government operates many centrally sponsored schemes and provide financial assistance to states and UTs such as Integrated Development of Wildlife Habitat; Project Tiger, and Project Elephant for better protection and conservation of wildlife and their habitat; Assistance to Botanic Gardens (ABG) schemes, and Identification of Forest Management Scheme towards protection and management of countries biodiversity.

(d) how do we plan to navigate the needs and demands of rapid urbanization and growth along with climate change risks?

BSI: The Botanical Survey of India, under the aegis of the MoEF&CC, is committed with a vision to explore and document all the wild plant resources of the country and to share this knowledge at the public domain to support its sustainable utilization for human welfare. Further, in order to mitigate the climate change risks, BSI is conserving the medicinal and economically important plants in its botanical gardens spread in different bio-geographical zones of the country under its *ex-situ* conservation programmes and Assistance to Botanic Gardens (ABG) schemes.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

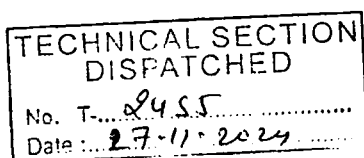
भवदीय / Yours sincerely,

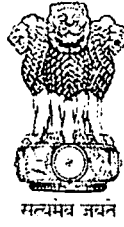
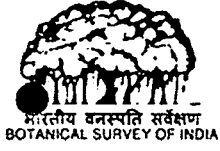
प्रचित/DESPATCHED
Kunal
28.11.2024

(एस. एस. दाश / S. S. Dash)

वैज्ञानिक/ Scientist 'F'

(प्रभारी, तकनीकीअनुभाग / In- charge, Tech. Section)





भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA
सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX
तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING
पाँचवाँ और छठा तल / 5TH & 6TH FLOOR
डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I
साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064
Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI-286/1 (Parl.) / 2024 -Tech.
सेवा में/To

दिनांक/Date : Nov 2024

The Secretary to the Govt. of India,
Ministry of Environment, Forests & Climate Change
Indira Paryavaran Bhawan,
Jor Bagh Road, Aliganj
New Delhi-110 003

(Kind attention: Dr. A.N. Shukla, Scientist E (CS-II), MoEF&CC, New Delhi)

Subject: Provisionally admitted questions in Rajya Sabha- unstarred Diary No. - 1192 to be put down for 28/11/2024-reg.

महोदया/ Madam,

With reference to your email, dated 19th Nov, 2024 regarding **Global Nature Conservation Index**, I am directed to furnish the point wise information as below:

(a) what are the reasons behind India's abysmal rank of 176th out of 180 countries in the Global Nature Conservation Index, 2024

BSI: The Global Nature Conservation Index (GNCI), which was released recently by Goldman Sonnenfeldt School of Sustainability and Climate Change at Ben-Gurion University and BioDB.com, a biodiversity database, has ranked India at 176th position among the 180th countries. **The ranking in NCI has been done based on four key parameters such as land management, biodiversity threats, capacity and governance, and future trends.** The ranking of the country appears contradictory, due to undermining the countries well-recognized efforts in biodiversity conservation and its achievement in the context of country's vast ecological and socio-political reach out. Besides, selection of unreliable metrics for NCI ranking are the main reasons for India's low ranking as pointed below:

- The NCI's framework principally relies on metrics that may not accurately reflect India's ecological complexities or conservation strategies. For example, significance weightage given to use of pesticides and warns against soil pollution. India has prepared exhaustive soil card for the farmers in each phytogeographic zones, but these data were not been addressed, but only sporadically used the sustainable nitrogen index ~~was used~~. The vast areas of forest land have not been taken into consideration for this purpose.
- The report gives significant weight^{age} to the proportion of marine protected areas and connected terrestrial habitats. This metrics are less applicable to countries like India, where the terrestrial conservation effort are full-proofed in different phytogeographical regions. Moreover, the conservation criteria^{used} cannot be a suitable for a vast country like Indian and cannot be compared with small countries which are surrounded by sea.

- iii. India is one of the most densely populated countries, with over 1.4 billion people. This population density creates significant spatial challenges, as conservation areas must coexist with agricultural, urban, and rural landscapes essential for human livelihoods. India's success lies in implementing conservation strategies that prioritise terrestrial areas without extensive displacement of communities. This unique approach addresses the dual need for biodiversity conservation and human sustenance, which is distinct from countries with lower population density and vast natural reserves.
- iv. Metrics of NCI has not taken in to account the micro-conservation models in India, such as the Joint Forest Management (JFMs) and eco-development models/practices adopted involving the local inhabitants and communities which manages and conserve more than 22 million hectares of forested land.
- v. These community-driven conservation models are crucial in fragmented landscapes, ensuring biodiversity conservation while empowering local populations. Unlike metrics used in the NCI that may prioritise large, uninterrupted conservation blocks, India's conservation success relies on smaller, community-managed patches that effectively contribute to species protection, habitat preservation and livelihood generation.
- vi. The report shows that between 2001 and 2019 quantity of the deforestation which led to the loss of an astounding 23,300 sq. km of tree cover, but the quantity of forest cover increased due to afforestation programme. More ever as per the FSI 2024 report there is no substantial loss of forest cover in last 2 decades, but there is increasing trend.
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- viii. The country's landscapes are mosaic of agricultural, forested, and semi-natural areas, where spatial fragmentation is inevitable. However, the country effectively mitigates this with corridor development for species like elephants and tigers and conservation reserves that act as ecological stepping stones across fragmented lands. / Hence, making the NCI's reliance on metrics like large connected habitats and marine coverage ~~less reflective of~~ ^{undermine/underest} India's actual conservation outcomes and strengths.

(b) since India's rank at the bottom is mainly attributed to inefficient land management and rising threats to its biodiversity, what measures have the ministry taken up in these areas.

BSI: For efficient land management and rising threats to its biodiversity, the MoEF&CC has taken many initiatives under the various international agreements such as the Convention on Biological Diversity (CBD), Ramsar Convention on Wetlands, and Convention on International Trade in Endangered Species (CITES). These commitments focus on biodiversity conservation, sustainable use of resources, and ecosystem preservation, all aimed at enhancing resilience to climate change and environmental degradation. Further, the country has set ambitious national goals, such as increasing protected area coverage to 10% for terrestrial areas and 5% for marine areas by 2030 under its National Biodiversity Action Plan (NBAP). India has created the National Adaptation Fund for Climate Change and the Green India Mission, both aimed at restoring degraded ecosystems and increasing carbon sequestration through afforestation, which further supports biodiversity. Further, India is also committed to conserve 30% of the threatened plants in its botanical Garden, reclaim 30% of

the degraded land by 2030, and decrease 50% of use of the pesticides in by 2050. ^{Also,} Further, India has committed to the Kunming-Montreal Global Biodiversity Framework, which includes biodiversity goals for 2050, integrating it into the 2030 Sustainable Development Goals (SDGs).

(c) what specific measures have been implemented against threat to India's biodiversity, including habitat loss and fragmentation; and

BSI: Some of the important measures taken by the Ministry to safeguard India's biodiversity, including habitat loss and fragmentation include regular survey, inventorization, taxonomic validation and threat assessment of floral and faunal resources; assessment of the forest cover to develop an accurate database for planning and monitoring; establishment of Protected Area Network of National Parks, Wildlife Sanctuaries, Conservation and Community Reserves; designating Biosphere Reserves for conservation of representative ecosystems; undertaking of species oriented conservation programmes; *ex-situ* conservation of plants etc.

In addition, The Wild Life (Protection) Act 1972 and the Biological Diversity Act 2002 have also been enacted with the aim to conserve biological resources of the country and regulation of access to these resources to ensure equitable sharing of benefits arising out of their use. Under these acts, the National Biodiversity Authority (NBA) and the State Biodiversity Boards (SBBs) and Biodiversity Management Committees (BMCs) have been set up for implementing the provisions of the Act. Besides, the Government operates many centrally sponsored schemes and provide financial assistance to states and UTs such as Integrated Development of Wildlife Habitat; Project Tiger, and Project Elephant for better protection and conservation of wildlife and their habitat; and Identification of Forest Management Scheme towards protection and management of countries biodiversity.

(d) how do we plan to navigate the needs and demands of rapid urbanization and growth along with climate change risks?

BSI: The Botanical Survey of India, under the aegis of the MoEF&CC, is committed with a vision to explore and document all the wild plant resources of the country and to share this knowledge at the public domain to support its sustainable utilization for human welfare. Further, in order to mitigate the climate change risks, BSI is conserving the medicinal and economically important plants in its botanical gardens spread in different bio-geographical zones of the country.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय / Yours sincerely,

(एस. एस. दाश / S. S. Dash)

वैज्ञानिकएफ/ Scientist 'F'

(प्रभारी, तकनीकीअनुभाग / In- charge, Tech. Section)

Approved
27/11/2024

Provisionally Admitted Questions in Rajya Sabha

unstarred Diary No. - 1192

57

The Question will be put down for 28/11/2024

Answer on the Ministry Department - Environment, Forest and Climate Change

Global Nature Conservation Index

- (a) what are the reasons behind India's abysmal rank of 176th out of 180 countries in the Global Nature Conservation Index, 2024;
- (b) since India's rank at the bottom is mainly attributed to inefficient land management and rising threats to its biodiversity, what measures have the ministry taken up in these areas;
- (c) what specific measures have been implemented against threats to India's biodiversity, including habitat loss and fragmentation; and
- (d) how do we plan to navigate the needs and demands of rapid urbanization and growth along with climate change risks?

H

Office of DDG (Statistics)
Dy. No. 178/M/2024
Date 18/11/2024

57/24/R
18/11/24

18.11.2024
(अभिमन्यु कुमार शर्मा)
(ABHIMANYU KUMAR SHARMA)
अनुभाग अधिकारी/Section Officer
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min. of Environment, Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

DDG (STATS)
Anusha
18-11-2024
ADG (STATS)



भारतीय वनस्पति सर्वेक्षण
BOTANICAL SURVEY OF INDIA



सत्यमेव जयते



भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING

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डीएफब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I

साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/File No.: BSI-281/19/2024-Tech.

दिनांक/Date : November, 2024

सेवामें / To

The Secretary
Ministry of Environment, Forest & Climate Change
CS-II Division, Indira Paryavaran Bhawan
2nd Floor, Vayu Wing, Jor Bagh Road, Aliganj
New Delhi - 110003

(Kind attention: Ms. Vibhuti Panjiyar, US, CS-II Division., MoEF&CC, New Delhi)

विषय / Sub.: Forwarding of foreign tour report submitted by Dr. Dinesh Kr. Agrawala, Sci-E & In-charge, Publication Section, Hqrs., BSI, Kolkata for his tour to Bangkok to participate the 8th IUCN Asia Regional Conservation Forum held in Bangkok, Thailand from 3rd to 5th September, 2024- reg.

महोदय / Sir,

In reference to the subject mentioned above, I am directed to enclose herewith a foreign tour report submitted by Dr. Dinesh Kr. Agrawala, Sci-E & In-charge, Publication Section, Hqrs., BSI, Kolkata for his tour to participate the 8th IUCN Asia Regional Conservation Forum held in Bangkok, Thailand from 3rd to 5th September, 2024 for your kind perusal and needful action.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद / Thanking you,

भवदीय / Yours sincerely,

(एस. एस. दाश / S. S. Dash)

वैज्ञानिक एफ / Scientist 'F'

(प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

Enclosure: As above.



Global Nature Conservation Index 2024 | 13 Nov 2024

Source: DTE

India ranks 176th in the 2024 Global Nature Conservation Index. It is among the five lowest-ranked countries, along with Kiribati (180), Turkey (179), Iraq (178), and Micronesia (177), out of 180 nations.

- India's low ranking is due to inefficient land management and increasing biodiversity threats.
- **About Nature Conservation Index (NCI):**
 - It is developed by the Goldman Sonnenfeldt School of Sustainability and Climate Change at **Ben-Gurion University and BioDB.com**, a biodiversity database.
 - The first NCI was launched in October 2024 to evaluate conservation efforts.
 - It assesses four key markers: land management, biodiversity threats, capacity and governance, and future trends.
- **Observation of the NCI:**
 - **Sustainable land use** is crucial, as 53% of land is converted for urban, industrial, and agricultural purposes.
 - The index highlights high pesticide use and warns about soil pollution.
 - Marine conservation needs improvement, with only 0.2% of national waterways protected and none within India's Exclusive Economic Zone (EEZ).
 - India ranks as the fourth-largest illegal wildlife trading nation globally, with annual sales totaling approximately 15 billion Euros.
 - **Deforestation** resulted in the loss of 23,300 sq. km of tree cover between 2001 and 2019.
 - India's ecological wealth is constantly threatened by **overpopulation**.

Read More: Environmental Performance Index 2024

Email**Technical Section BSI**

Fwd: Urgent: Provisionally admitted questions in Rajya Sabha- unstarred Diary No. - 1192 to be put down for 28/11/2024.

From : Achuta Nand Shukla Tue, Nov 19, 2024 09:46 AM
<achuta.shukla@gov.in> 1 attachment
>

Subject : Fwd: Urgent:
Provisionally admitted
questions in Rajya
Sabha- unstarred Diary
No. - 1192 to be put
down for 28/11/2024.

To : Dr. B Balaji
<secretary@nba.nic.in>
>, Technical Section
BSI
<tech@bsi.gov.in>,
DHRITI BANERJEE
<director@zsi.gov.in>,
Technical Section ZSI
HQ, Kolkata
<technical@zsi.gov.in>
, Dr Sudhansu Sekhar
Dash
<ssdash@bsi.gov.in>,
Ashiho Asosii Mao
<hq@bsi.gov.in>,
Ashiho Asosii
<aamao@bsi.gov.in>

Cc : RAGHU KUMAR
KODALI

<kodali.rk@gov.in>,
Statistics Division
<stats-moef@gov.in>

Dear Madam/Sir,
Reference to the trailing email, please provide the comments directly to the Statistics
Division copy to us.
Regards

Achuta Nand Shukla (Ph.D.)
Additional Director/Scientist - E
CS-III (Biodiversity Division)
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan, Jor Bagh Road
New Delhi-110003
Mobile: 8307360282

===== Forwarded message
=====

From: Anchal Jain <stats-moef@gov.in>
To: "Prashant Gargava" <prashant.cpcb@gov.in>, "Shard
Sapra" <shard.sapra@nic.in>, "tarunpithode"
<tarun.pithode@mp.gov.in>, "Ruchika Drall"
<ruchika.drall@gov.in>, "Achuta Nand"
<achuta.shukla@gov.in>
Cc: "Rajasree Ray" <rajasree.r@nic.in>, "Neelesh Sah"
<sahnk@cag.gov.in>, "RAGHU KUMAR KODALI"
<kodali.rk@gov.in>, "Ved Mishra" <mishra.vp@gov.in>, "C.
S. MISHRA" <cs.mishra69@gov.in>, "Anchal Jain"
<anchal.iss@mospi.gov.in>
Date: Mon, 18 Nov 2024 17:56:16 +0530
Subject: Urgent: Provisionally admitted questions in Rajya
Sabha- unstarred Diary No. - 1192 to be put down for
28/11/2024.

===== Forwarded message
=====

URGENT/Parliament Matter

Respected Sir,

Reference is invited to the Provisionally admitted questions in Rajya Sabha-unstarred Diary No. - 1192 to be put down for 28/11/2024. The same is reproduced below:

- (a) what are the reasons behind India's abysmal rank of 176th out of 180 countries in the Global Nature Conservation Index, 2024
(b) since India's rank at the bottom is mainly attributed to inefficient land management and rising threats to its biodiversity, what measures have the ministry taken up in these areas.
(c) what specific measures have been implemented against threat to India's biodiversity, including habitat loss and fragmentation; and
(d) how do we plan to navigate the needs and demands of rapid urbanization and growth along with climate change risks?

In this regard, it is requested to concerned division provide inputs on the associated questions (b), (c) and (d) latest by **20 November 2024**.

Question No.

b and c
d

Concerned Division

Biodiversity
CC and CP

This may kindly be treated as urgent.

Regards,

Anshul Jain
AD(Statistics)
Statistics Division
Room No. 604, West Wing
Ministry of Environment, Forest and Climate Change
Indira Park, Bhawan
Jor Bagh Road, New Delhi-110003
Ph: 20819297

Provisionally Admitted Question in Rajya Sabha
- Diary No 1192.pdf
547 KB

Rebuttal for 2024 Nature Conservation Index on Indian assessment

The 2024 Nature Conservation Index assessment is based on the land management, threats to biodiversity, capacity and governance, and future trends. India's position at 176th out of 180 due to undermining the countries well-recognized efforts in biodiversity conservation and its achievement in the context of country's vast ecological and socio-political reach out.

Here are some key points: -

1. Selection of Unreliable and biased Metrics for NCI :

- a. The NCI's framework principally relies on metrics that may not accurately reflect India's ecological complexities or conservation strategies. For example, significance weightage given to use of pesticides and warns against soil pollution. India has prepared exhaustive soil card for the farmers in each phytogeographic zones, but these data were not been addressed, but only sporadically used the sustainable nitrogen index was used. The vast areas of forest land have not been taken into consideration for this purpose.
- b. The report gives significant weight to the proportion of marine protected areas and connected terrestrial habitats. This metrics are less applicable to countries like India, where the terrestrial conservation effort are full-proofed in different phytogeographical regions. Moreover, the conservation criteria cannot be a suitable for a vast country like Indian and cannot be compared with small countries which are surrounded by sea.
- c. India is one of the most densely populated countries, with over 1.4 billion people. This population density creates significant spatial challenges, as conservation areas must coexist with agricultural, urban, and rural landscapes essential for human livelihoods. India's success lies in implementing conservation strategies that priorities terrestrial areas without extensive displacement of communities. This unique approach addresses the dual need for biodiversity conservation and human sustenance, which is distinct from countries with lower population density and vast natural reserves.
- d. **Metrics of NCI has not taken in to account the micro-conservation models:** In India, many micro modelssuch as the Joint Forest Management (JFMs) and eco-development models/practices adopted involving the local inhabitants and communities which manages and conserve more than 22 million hectares of forested land.
- e. These community-driven conservation models are crucial in fragmented landscapes, ensuring biodiversity conservation while empowering local populations. Unlike metrics used in the NCI that may priorities large, uninterrupted conservation blocks, India's conservation success relies on smaller, community-managed patches that effectively contribute to species protection, habitat preservation and livelihood generation.

- f. The report shows that between 2001 and 2019 quantity of the deforestation which led to the loss of an astounding 23,300 sq. km of tree cover, but the quantity of forest cover increased due to afforestation programme. More ever as per the FSI 2024 report there is no substantial loss of forest cover in last 2 decades, but there is a increase trend.
- g. The large network of Protected area of India has underestimated in the NSI criteria. The conservation efforts for large landscapes declaring WLS and BR are some of efficient program of Government. Indias approach with management plan and livelihood generation in each these protected areas are praiseworthy. While the NCI may view these protected areas as fragmentation as a metric lowering conservation value, India's approach uses these fragmented spaces efficiently to support high biodiversity amidst land-use pressures.
- h. Our landscapes are mosaic of agricultural, forested, and semi-natural areas, where spatial fragmentation is inevitable. However, the country effectively mitigates this with corridor development for species like elephants and tigers and conservation reserves that act as ecological stepping stones across fragmented lands. . Hence, making the NCI's reliance on metrics like large connected habitats and marine coverage less reflective of India's actual conservation outcomes and strengths.

2. Efforts Not Reflected in Data Used in the NCI index: The NCI indicators fail to reflect India's conservation efforts, it needs to look at India's extensive conservation initiatives and recent achievements that may be missed by NCI's standardized, globally sourced metrics. Here's a breakdown of the issue with specific support from India's report:

- a. **Species specific Conservation Initiatives:** Community-driven conservation in places like the Western Ghats and certain Himalayan regions demonstrates successful models. These initiatives has often scalable government support and integrated with national policies. These programs have built a sustainable framework for species specific conservation programmes, like Orchids, Legumes, Zingibers, Rhododendron, etc that helps maintain overall ecosystem health and biodiversity within these protected areas.
The generalized metrics of NCI's framework emphasizes protection of the larger landscapes and continued habitats but ignores the India's species-specific conservation successes, highly specialized and targeted achievements of plant conservation, botanic gardens or Orchidarium.
- b. **Expansive and Increasing Protected Area Network:** India has expanded its protected areas substantially, with over 1,022 protected areas covering 178,641 km², including national parks, wildlife sanctuaries, conservation reserves, and community reserves. This network has increased significantly in recent years, growing by 15% since 2000, demonstrating India's ongoing commitment to protecting critical habitats despite

intense land-use pressures. Additionally, India has introduced 132 marine protected areas, covering 9,615 km², and 85 Ramsar Sites, to address conservation in wetlands, coastal and marine environments.

NCI Issue: *The NCI rely on broader, globally aggregated data sources that do not capture year-on-year increases in protected area coverage. This means recent expansions in India's terrestrial and marine protected areas might not be fully included, and thus, India's achievements in creating one of the largest protected area networks may not be accurately represented.*

- c. **Rapid Assessment Programs and Monitoring Systems:** India conducts regular and systematic biodiversity assessments. For example, BSI and ZSI undertake the periodic assessment and documentation of floral and faunal diversity, including new species discoveries. The recent database of Plant and animals developed by BSI and ZSI shows the number of species found in the country and also updates through Plant and Animal discoveries

NCI Issue: *NCI's indicators may rely heavily on international datasets such as GBF which often provides the faulty data and that are not updated frequently. This faulty data diminishes the India's dynamic, continuous assessments and conservation monitoring programmes. This can lead to a delay in reflecting India's ecosystem assessments' latest improvements and discoveries.*

- 3. **NCI does not capture the socio-ecological setup of India:** India's high population density presents unique conservation challenges that conventional metrics like those used by the Nature Conservation Index (NCI) may not capture. Here's an explanation of this issue, supported by specific challenges and innovative solutions India employs in balancing development with conservation:

- i. **Unique Demographic Pressures on Land Use:** India is home to over 1.4 billion people, making it one of the most densely populated countries globally. This density creates intense demand for land for housing, agriculture, and industry, leading to significant fragmentation of natural habitats. Despite these pressures, India has designated large portions of its biodiversity hotspots as protected areas. These hotspots, such as the Western Ghats, the Himalayas, and the Sundarbans, are among the most ecologically important regions in the world.

NCI Issue: *The NCI's metrics for land use and habitat connectivity might penalize countries with fragmented habitats, assuming that large, contiguous habitats are universally necessary for effective conservation. However, in India, fragmented yet protected areas still provide vital habitat for many species, indicating that the NCI may*

overlook how countries like India effectively balance human pressures with habitat protection.

Integration of conservation within a human-dense landscape not taken in to account India's protected areas, covering approximately 178,641 km², are established within landscapes where human habitation, agriculture, and infrastructure coexist. For example, India has successfully created eco-sensitive zones around protected areas, which act as buffer zones, and enforce regulations that limit harmful activities. This integration of conservation within a human-dense landscape allows India to maintain biodiversity while supporting livelihoods which is very much important for a developing country.

***NCI Issue:** The NCI's approach may not fully account for how protected areas function within mixed-use landscapes. Countries with large, low-density tracts of land may receive favorable scores, while countries like India, **which integrate conservation into complex, human-dominated landscapes, might be unfairly scored lower.** This overlooks innovative spatial planning solutions that balance conservation with human needs.*

4. **Future trends and long-term commitments:** The NCI's future trends metric appears to fall short in capturing India's proactive conservation commitments and long-term policy goals. Why this is a limitation and how India's efforts in future-oriented conservation and resource management are being undervalued:

- a. **India's Proactive Policy Commitments:** India has made significant, forward-looking commitments under international agreements such as the Convention on Biological Diversity (CBD), Ramsar Convention on Wetlands, and Convention on International Trade in Endangered Species (CITES). These commitments focus on biodiversity conservation, sustainable use of resources, and ecosystem preservation, all aimed at enhancing resilience to climate change and environmental degradation.

***NCI Issue:** The NCI's framework may not adequately capture the weight of these long-term, formal international commitments in its future trends assessment. Instead, it might favor more immediate or quantifiable conservation actions. As a result, countries with strong long-term policy agendas like India may not receive fair recognition for these commitments in their overall ranking.*

- b. **Ambitious National Conservation Goals:** India has set ambitious national goals, such as increasing protected area coverage to 10% for terrestrial areas and 5% for marine areas by 2030 under its National Biodiversity Action Plan (NBAP). Additionally, India

has created the National Adaptation Fund for Climate Change and the Green India Mission, both aimed at restoring degraded ecosystems and increasing carbon sequestration through afforestation, which further supports biodiversity. Again India is also committed to conserve 30% of the threatened plants in its botanical Garden, reclaim 30% of the degraded land by 2030, and decrease 50% of use of the pesticides in by 2050.

NCI Issue: The NCI's reliance on current and static data may not account for such future-oriented targets and plans. The metric may not track progress towards these ambitious goals, which require time and strategic implementation but demonstrate India's dedication to advancing biodiversity and environmental health in the long term

- c. **Innovative Climate and Biodiversity Frameworks:** India has committed to the Kunming-Montreal Global Biodiversity Framework, which includes biodiversity goals for 2050, integrating it into the 2030 Sustainable Development Goals (SDGs). This framework, which India actively supports, promotes policy actions that link biodiversity with sustainable development across environmental, social, and economic dimensions, establishing a path for future biodiversity success.

NCI Issue: The NCI's future trends metric may not fully integrate the strategic depth of frameworks like the Kunming-Montreal targets, which India has embraced through its revised NPSAB. Instead, it may prioritise simpler forward-looking metrics such as basic habitat connectivity or percentage of protected areas, which could undervalue the broader, multi-dimensional goals set by India that support biodiversity alongside economic growth.

Hence, considering the above the NCI indicators for "future trends" may inadequately reflect India's robust, forward-looking conservation commitments. Further, the **Lack of Consideration for Adaptive and Forward-Looking Conservation Efforts: India's eco-sensitive zones around protected areas, the Compensatory Afforestation Fund Management and Planning Authority (CAMPA), and sustainable agricultural practices represent adaptive measures aimed at enhancing future biodiversity resilience.** Yet, NCI's indicators, which seem to prioritize present connectivity and protected area coverage, might miss such nuanced, future-oriented initiatives designed to meet biodiversity needs in a highly populated landscape.

Therefore, by not including adaptive, policy-based conservation strategies, the NCI's metrics could unfairly disadvantage India, which has committed to an approach that integrates conservation with socio-economic development. As a result, future trend metrics may inadequately represent India's progress toward sustainable, multi-dimensional biodiversity goals

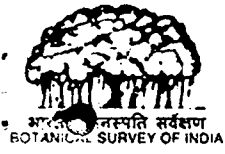
5. **Reliance on Environmental Performance Index (EPI) Indicators:** The NCI incorporates elements from Yale's Environmental Performance Index (EPI), which focuses heavily on general environmental health and ecosystem vitality rather than future biodiversity resilience. Since the EPI was not designed to measure biodiversity conservation comprehensively, its inclusion in the NCI's future trends risks misrepresenting countries prioritizing biodiversity as a separate commitment.

6. **Bias Towards Western Conservation Models:** The Nature Conservation Index (NCI) may inherently favour Western-style conservation models, which often emphasize segregated, large, and low-density natural areas as indicators of successful biodiversity conservation. Explained below how this bias could impact India's ranking and why this approach might not accurately represent India's unique and effective conservation strategies:

- a. **Preference for segregated conservation areas:** Many top-ranking nations in the NCI, particularly smaller, low-density countries, tend to use segregated conservation models and cannot be compared with India, which is a vast country and hanging a varied climatological and topographic regime. These models emphasize large, uninterrupted tracts of wilderness where human activity is minimal. This is only feasible in low-density areas where conservation land use doesn't compete heavily with agricultural, urban, or industrial needs, allowing these countries to achieve high percentages of protected, undisturbed land.

NCI Issue: India, with one of the world's highest population densities, cannot afford purely segregated conservation zones. Conservation in India instead operates as an integrated coexistence model, where protected areas are interwoven with human settlements, agriculture, and rural communities. India's approach prioritizes conserving biodiversity within human-dominated landscapes, involving communities in sustainable practices, which is less valued by NCI's indicators focused on segregation.

Hence, by prioritizing Western conservation approaches, the NCI's indicators may fail to recognize India's unique and effective integrated, coexistence-based conservation model. The NCI's reliance on metrics like contiguous protected areas, minimal human interference, and large-scale habitats reflects an assumption that conservation is best achieved through the separation of humans and wildlife—a model that does not translate well to densely populated countries like India. This bias could lead to a skewed ranking, misrepresenting the effectiveness of India's adaptive, community-based, and coexistence-focused conservation model, which aligns conservation with sustainable human livelihoods in a high-demand landscape.



EW 096159860 IN



स्योड पोष्ट / SPEL-2024



भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING

पाँचवाँ और छठा तल / 5TH & 6TH FLOOR

डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I

साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI- 286/1 (Parl.) / 2023 -Tech.

दिनांक/Date: 26th July, 2024

सेवा में / To

The Secretary

Ministry of Environment, Forest and Climate Change

Indira Paryavaran Bhawan, Jor Bagh Road

New Delhi - 110003

*(Kind attention: Mrs. Inka Goel, Technical Officer (F), Desertification Cell, NAEB)***Subject:** Lok Sabha Unstarred Question Dy. No. 4550, due for answer on 05.08.2024 regarding "National Action Programme to Combat Desertification"-- reg.

महोदया / Madam,

With reference to the email dated 26.07.2024 from the Mrs. Inka Goel, Technical Officer (F), Desertification Cell, NAEB in connection to the Lok Sabha Unstarred Question Dy. No. 4550, due for answer on 05.08.2024 regarding "National Action Programme to Combat Desertification", I am directed to furnish herewith the following information for your kind perusal and necessary action as follows:

a) the details about aim and budget allocation for the National Action Programme to Combat Desertification (NAPCD);

Answer No information in this regard is available with BSI.

b) the details of projects undertaken to combat desertification during the last three years, State wise along with the success rate particularly in West Bengal;

Answer: Not applicable to BSI.

c) the details of impact of above projects on land degradation and restoration along with data, if any, in this regard; and

Answer: Not applicable to BSI.

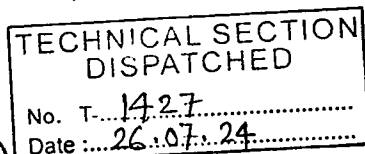
d) the manner in which NAPCD impacts the flora and fauna of the areas where the plan is implemented?

Answer: Not applicable to BSI.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय/ Yours sincerely



(एस. एस. दाश / S. S. Dash)

वैज्ञानिक एफ / Scientist 'F'

(प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

2339
प्रेषित / DESPATCHED
29/7/24

Email**Technical Section BSI**

Fwd: Information on Lok Sabha Unstarred Question Dy. No. 4550, due for answer on 05.08.2024 regarding "National Action Programme to Combat Desertification"

From : Ashiho Asosii Mao
<hq@bsi.gov.in>

Fri, Jul 26, 2024 03:41 PM

2 attachments

Subject : Fwd: Information on Lok Sabha Unstarred Question Dy. No. 4550, due for answer on 05.08.2024 regarding "National Action Programme to Combat Desertification"

To : Technical Section BSI
<tech@bsi.gov.in>, Dr Sudhansu Sekhar Dash
<ssdash@bsi.gov.in>

For n.a. pl.

From: "Desertification Cell" <desertification-mef@gov.in>
To: "Chiranjiv Choudhary, IFS" <prlccf_hf_apfd@ap.gov.in>, "Shri V. Sreenivasa Rao, I.F.S.." <pccf-fhq@cg.gov.in>, pccf-forest@gujarat.gov.in, "Sanjay Srivastava" <pccf-jhk@gov.in>, pccfkar@gmail.com, "PCCF MP PCCF MP P C C F M P" <pccfmp@mp.gov.in>, pccfodisha@gmail.com, "pccf rj forest" <pccf.rj.forest@rajasthan.gov.in>, "RAKESH MOHAN DOBRIYAL, IFS" <prlccf_hf_tsfd@telangana.gov.in>, "PCCF UP" <pccf-

up@nic.in>, pccfuk@gmail.com, pccf-tn@nic.in, "Rajiv Kumar" <pccf-hp@nic.in>, pccf-mh@nic.in, "Niraj Singhal, IFS" <pccfhoff-wb@nic.in>, dg@icfre.org, "Ashiho Asosii Mao" <hq@bsi.gov.in>

Cc: "K.B. Singh" <igf.naeb@gov.in>, "PRASHANT RAJAGOPAL" <prashant.rajagopal@nic.in>, "Inka Goel" <goel.inka@gov.in>

Sent: Friday, July 26, 2024 1:39:12 PM

Subject: Information on Lok Sabha Unstarred Question Dy. No. 4550, due for answer on 05.08.2024 regarding "National Action Programme to Combat Desertification"

Respected Sir/Ma'am

It is requested to kindly send your input on the above said Question by 27.07.2024 till evening.

Thanks & Regards,

Mrs. Inka Goel
Technical Officer (F)
Desertification Cell
NAEB



NATIONAL ACTION PROGRAMME TO COMBAT

● - DESERTIFICATION 4550 (letter).pdf

639 KB

NATIONAL ACTION PROGRAMME TO COMBAT

- DESERTIFICATION 4550.pdf

390 KB

LOK SABHA

Ministry: ENVIRONMENT, FOREST AND CLIMATE CHANGE

Sitting on: 05/08/2024

Question Type: UNSTARRED

D.No : 4550

National Action Programme to Combat Desertification

Will the Minister of ENVIRONMENT, FOREST AND CLIMATE CHANGE

- (a) the details about aim and budget allocation for the National Action Programme to Combat Desertification (NAPCD);
- (b) the details of projects undertaken to combat desertification during the last three years, State-wise along with the success rate particularly in West Bengal;
- (c) the details of impact of above projects on land degradation and restoration along with data, if any, in this regard; and
- (d) the manner in which NAPCD impacts the flora and fauna of the areas where the plan is implemented?

D.C.

IGF [NAEB]

23-7-24

US [NAE]

PARLIAMENT MATTER /MOST URGENT

F. No. 35/156/2024-DC
Government of India
Ministry of Environment, Forest and Climate Change
NAEB-DC
7th Floor, Pt. Deendayal Antyodaya Bhawan,
CGO Complex, Lodi Road
New Delhi -110 003.
Dated: 26/07/2024

To:

The PCCF & Head of Forest Force,
(Andhra Pradesh, Chhattisgarh, Gujarat, Jharkhand, Karnataka, Madhya Pradesh,
Odisha, Rajasthan, Telangana, Uttar Pradesh, Uttarakhand, Tamil Nadu, Himachal
Pradesh, West Bengal and Maharashtra)

The Director General,
ICFRE, Dehradun

The Director,
Botanical Survey of India
(Government of India)

**Subject: Information on Lok Sabha Unstarred Question Dy. No. 4550, due for answer
on 05.08.2024 regarding "National Action Programme to Combat Desertification"**

Sir/Madam,

Please find enclosed herewith the copy of the Lok Sabha Unstarred Question Dy. No. 4550, due for answer on 05.08.2024, regarding "National Action Programme to Combat Desertification" and the text of the question is reproduced below:-

- (a) the details about aim and budget allocation for the National Action Programme to Combat Desertification (NAPCD);
- (b) the details of projects undertaken to combat desertification during the last three years, State-wise along with the success rate particularly in West Bengal;
- (c) The details of impact of above projects on land degradation and restoration along with data, if any, in this regards; and
- (d) the manner in which NAPCD impacts the flora and fauna of the areas where the plan is implemented?

2. In view of the above, it is requested to kindly send your input on the above said question by 27.07.2024 positively on the email-id: igf.naeb@gov.in, prashant.rajagopal@nic.in and desertification-mef@gov.in

Encl: as above

Yours faithfully


26/7/24
(Inka Goel)
TO (NAEB)

Copy to: The Directorate of Administration Information Technology Division, Indian Council of Forestry Research and Education (ICFRE), P.O. New Forest, Dehradun - 248 006

Fwd: Lok Sabha Unstarred Question no. 3304 for answer on 12.08.2024 regarding 'outsourcing of policy and governance projects'.

From : sobsi2012@gmail.com Wed, Aug 07, 2024 05:36 PM

Subject : Fwd: Lok Sabha Unstarred Question no. 3304 for answer on 12.08.2024 regarding 'outsourcing of policy and governance projects'. 1 attachment

Sudhir
7/8/2024

Sudhir
7/8/2024

To : Dr Sudhansu Sekhar Dash
<ssdash@bsi.gov.in>,
Technical Section BSI
<tech@bsi.gov.in>

TECHNICAL SECTION, OFFICE OF DIRECTOR, BSI, FSC	
Dy. No.	T-764
Date	07.08.2024

----- Forwarded message -----

From: Deepali Goel <sobsi2012@gmail.com>

Date: Wed, Aug 7, 2024 at 9:59 AM

Subject: Fwd: Lok Sabha Unstarred Question no. 3304 for answer on 12.08.2024 regarding 'outsourcing of policy and governance projects'.

To: ZSIHQ Kolkata <zsikolkata@gmail.com>, Gurupada Mandal <gpmandal.zsi@gmail.com>, Head of office ZSI <hoo@zsi.gov.in>, C. Murugan, Scientist BSI <cmurugan@bsi.gov.in>, Ashiho Mao <aamao2008@gmail.com>

Sir/Madam,

Please find attached herewith the O.M. dt.06.08.2024 seeking inputs for Lok Sabha Unstarred Question No. 3304 due for 12.08.2024

----- Forwarded message -----

From: **DEEPALI GOEL** <deepali.goel@gov.in>

Date: Wed, Aug 7, 2024 at 9:16 AM

Subject: Fwd: Lok Sabha Unstarred Question no. 3304 for answer on 12.08.2024 regarding 'outsourcing of policy and governance projects'.

To: sobsi2012 <sobsi2012@gmail.com>

===== Forwarded message
=====

From: yagyesh ranjan <y.ranjan1729@gov.in>

To: "Ashiho Asosii Mao" <hq@bsi.gov.in>, "Ashiho Asosii" <aamao@bsi.gov.in>, "DHRITI BANERJEE" <director@zsi.gov.in>, "rs dot bora" <rs.bora@nic.in>, "Arvind Bhagat" <arvindbhagat-upsc@gov.in>, "DEEPALI GOEL" <deepali.goel@gov.in>, "Director Forest Education" <dfe-dehradun@gov.in>, "DG FSI" <dgfsi@fsi.nic.in>, "Director IGNFA" <director@ignfa.gov.in>, <dg@icfre.org>, "Akaksha Mahajan" <dig-cza@nic.in>, "Dr. Gobind Sagar Bhardwaj" <ms-ntca@nic.in>, "Ramesh Kumar Pandey" <ig-ntca@nic.in>, "Mohammad Sajid Sultan" <aig2-ntca@nic.in>, "ABHAY BHASKAR BARAPATRE" <abhay.78@gov.in>, "Birbal RaM" <birbalmeena.69@gov.in>, "Sanjay Shukla" <ms-cza@nic.in>, "Ravinder Singh Rawat" <fo-cza@nic.in>, "H. V. GIRISHA" <addldir-wccb@gov.in>, <dwii@wii.gov.in>,

<baljeet@wii.gov.in>, "SUNIL SHARMA"
<ms293.ifs@nic.in>, "Joint Director" <jd-wl@nic.in>,
"Registrar General" <rg.ngt@nic.in>, "Smt.Naaz Rizvi"
<n.rizvi@gov.in>, "SHAKTI KUMAR SINGH"
<shakti.nmnh@gov.in>, "V P Rajvedi" <vp.raajvedi@nic.in>,
"ARVIND KUMAR NAUTIYAL" <arvind.nautiyal@gov.in>,
"Chairman CPCB" <ccb.cpcb@nic.in>, "MS, CPCB"
<mscb.cpcb@nic.in>, "madhu" <madhu.cpcb@nic.in>,
"Director" <psdir@gbpihed.nic.in>, "Mr. C. Achalender
Reddy" <chairman@nba.nic.in>, <dir.sacon@wii.gov.in>,
"RAGHU KUMAR KODALI" <kodali.rk@gov.in>, "Achuta Nand
Shukla" <achuta.shukla@gov.in>, "prasoon tripathi"
<prasoon.tripathi76@gov.in>, "DIRECTOR DIRECTOR"
<director@iifm.ac.in>, "CAO CAO" <cao@iifm.ac.in>,
"RACHEL METHEWS" <rachel@iifm.ac.in>,
<director.iwst@gmail.com>, "Suveena Thakur"
<hp199.ifs@nic.in>, "Surabhi Rai" <surabhi.rai76@gov.in>,
"Ramesh Pandey" <ramesh.pandey@nic.in>, "Lalan Prasad
Sharma" <sharma.lp@nic.in>, "Shankar Lal Bairwa"
<sl.bairwa@nic.in>, "Naveen Kumar"
<naveen.kmr@gov.in>, "yagyesh ranjan"
<y.ranjan1729@gov.in>, "Satya Prakash"
<satya.prakash79@gov.in>, "DEEPIKA CHAUDHARY"
<am172@ifs.nic.in>

Cc: "Mr Tanmay Kumar" <tanmay.kumar-rj@gov.in>, "Mr
Satyajit Mishra" <satyajit.mishra@nic.in>, "Naveen Kumar"
<naveen.kmr@gov.in>, "Lalan Prasad Sharma"
<sharma.lp@nic.in>, "Akanksha Sachan"
<a.sachan92@gov.in>

Date: Tue, 06 Aug 2024 18:43:40 +0530

Subject: Lok Sabha Unstarred Question no. 3304 for answer
on 12.08.2024 regarding 'outsourcing of policy and
governance projects'.

===== Forwarded message

=====

Sir/Madam,

Please find attached herewith the O.M. dt.06.08.2024 seeking inputs for Lok Sabha Unstarred Question No. 3304 due for 12.08.2024.

with regards,

Yagyesh Ranjan,
ASO, Admin(P-II)
MoEFCC.

 **DOC010318-01032018180635.pdf**
1,017 KB

TOP PRIORITY
PARLIAMENT MATTER

No. ADNUB-4911/1//2024---II (E-243182)
Government of India
Ministry of Environment, Forest and Climate Change
(P.II Section)

1st Floor, Prithvi Wingh
Indira Paryavaran Bhawan,
Jor Bagh Road,
New Delhi 110003

Dated: 6th August, 2024

OFFICE MEMORANDUM

**Subject: Lok Sabha Unstarred Question No.3304 for answer on 12.08.2024 regarding
"Outsourcing of Policy and Governance Projects".**

The undersigned is directed to enclose herewith a copy of the subject question.

2. In this context, all the Divisions in the Ministry are requested to provide the point-wise replies to the above Question along with other requisite inputs as per format attached to the undersigned **positively by 07.08.2024 by 10.00 A.M.** It is also requested to provide this information in respect of all the subordinate offices, Autonomous bodies, Boards, Tribunals and any other organization working under their administrative control /being dealt with by them.

3. Soft copy of the information may be sent at: a.sachan92@gov.in and y.ranjan1729@gov.in.

Encl: As above


(Lalan Prasad Sharma)
Deputy Secretary to the Govt. of India
Tele: 011-20819294
[e-mail: ds.pl-moefcc@gov.in]

To
All Divisinal Head, MoEFCC

Copy to:

- (i) PPS to AS(Admin)
- (ii) PPS to JS(Admin)

Outsourcing of Policy and Governance Projects

3304 Shri Tanuj Punia:

Will the Minister of ENVIRONMENT, FOREST AND CLIMATE CHANGE

पर्यावरण, वन और जलवायु परिवर्तन मंत्री

be pleased to state:

(a) whether the Ministry has entered into an agreement with any consultancy, private company or non-government organization to provide research and other support for any policy, governance or administrative work;

(b) if so, the details of all such agreements entered into during the last three years;

(c) whether the Ministry has done any impact analysis of the contribution of such consultancy, private company or non-government organization to the policy or governance initiatives of the Ministry; and

(d) if so, the details thereof, if not, the reasons therefor?

**Lok Sabha Unstarred Question No.3304 for answer on 12.08.2024 regarding
"Outsourcing of Policy and Governance Projects".**

1. Name of the Division/ Unit/Cell:
2. Name of the Organization/Institute/Board/Tribunal, etc:
(As the case may be)

Name of the Pvt. Company/ Consultancy Firm/ NGO	Purpose (i) Policy (ii) Governance (iii) Administrative work <i>(pl. provide complete details)</i>	Details of the agreements signed during last three years	Details of the Impact Analysis, if any done to the policy and governance issues.	If impact analysis has not been done, reasons, therefor	Remarks



भारत सरकार/ GOVERNMENT OF INDIA

पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय/MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE

भारतीय वनस्पति सर्वेक्षण/BOTANICAL SURVEY OF INDIA

निदेशक का कार्यालय/OFFICE OF THE DIRECTOR

सी.जी.ओ. कॉम्प्लेक्स, तृतीय एम.एम.ओ. भवन/CGO COMPLEX, 3RD MSO BUILDING

ब्लॉक एफ, पोंचबां और छटा तम/BLOCK F, 5TH & 6TH FLOOR (ROOM NO. 549-555 & 649-655)

डी एफ ब्लॉक, सेक्टर १, माउंट सेक सिटी, कोलकाता - ७०००६४/DF BLOCK, SECTOR 1, SALT LAKE CITY, KOLKATA - 700 064

संख्या/No.: भा.व.स./BSI-29/1/2024-Admn./Hqrs.

दिनांक/Date: 8th August, 2024

सेवा में/To

सचिव, भारत सरकार/The Secretary to the Govt. of India

पर्यावरण एवं वन जलवायु परिवर्तन मंत्रालय

Ministry of Environment, Forest & Climate Change

इन्दिरा पर्यावरण भवन जोर बाग रोड /Indira Paryavaran Bhavan, Jor Bagh Road,

आलिगंज, नई दिल्ली - 110 003/ Aliganj, New Delhi - 110 003

Kind Attention : Shri Lalan Prasad Sharma, Deputy Secretary to the Govt. of India, P.II Section, MoEF&CC, Jor Bagh Road, New Delhi

विषय/Sub.: Lok Sabha Unstarred Question No. 3304 for answer on 12. 08. 2024 regarding "Outsourcing of Policy and Governance Projects".

महोदय/Sir,

With reference to your e-mail dated 06-08-2024 on the above mentioned subject, the undersigned is to furnish herewith para wise reply for your kind consideration as mentioned below.

S/	Details of query	Parawise reply
a.	Whether the ministry has entered into an agreement with any consultancy, private company or non-government organization to provide research and other support for any policy governance or administrative work	BSI has not done any consultancy work, therefore, the reply may be treated as nil
b.	If so, the details of such agreement entered into during the last three years.	Not applicable
c.	Whether the ministry has done any Impact analysis of the contribution of such consultancy private company or non-government organisation to the policy or governance initiatives of the ministry and	Not applicable
d.	If so the details thereof, if not, the reasons therefor?	Not applicable.

This is for your kind information and office record and issued with approval of Director, BSI.

सधन्यवाद/Thanking you,

भवदीय/Yours faithfully,

(सी मुरुगान)/(C. Murugan)

वैज्ञानिक-एफ व कार्यालयाध्यक्ष, मुख्यालय

Scientist-F & Head of Office, Hqrs.

संलग्न/Encl.: उपरोक्तानुसार/As above.

Fwd: Lok Sabha Unstarred Question no. 3304 for answer on 12.08.2024 regarding 'outsourcing of policy and governance projects'.

From : sobsi2012@gmail.com Wed, Aug 07, 2024 05:36 PM
Subject : Fwd: Lok Sabha Unstarred Question no. 3304 for answer on 12.08.2024 regarding 'outsourcing of policy and governance projects'.
To : Dr Sudhansu Sekhar Dash
<ssdash@bsi.gov.in>,
Technical Section BSI
<tech@bsi.gov.in>

1 attachment
Sudhir
18/8/2024.
Gow
18/8/2024

TECHNICAL SECTION, OFFICE OF DIRECTOR, BSI, Govt of India	
Dy. No.	T-764
Date	07.08.2024

----- Forwarded message -----

From: Deepali Goel <sobsi2012@gmail.com>

Date: Wed, Aug 7, 2024 at 9:59 AM

Subject: Fwd: Lok Sabha Unstarred Question no. 3304 for answer on 12.08.2024 regarding 'outsourcing of policy and governance projects'.

To: ZSIHQ Kolkata <zsikolkata@gmail.com>, Gurupada Mandal <gpmandal.zsi@gmail.com>, Head of office ZSI <hoo@zsi.gov.in>, C. Murugan, Scientist BSI <cmurugan@bsi.gov.in>, Ashiho Mao <aamao2008@gmail.com>

Sir/Madam,

Please find attached herewith the O.M. dt.06.08.2024 seeking inputs for Lok Sabha Unstarred Question No. 3304 due for 12.08.2024

----- Forwarded message -----

From: **DEEPALI GOEL** <deepali.goel@gov.in>

Date: Wed, Aug 7, 2024 at 9:16 AM

Subject: Fwd: Lok Sabha Unstarred Question no. 3304 for answer on 12.08.2024 regarding 'outsourcing of policy and governance projects'.

To: sobsi2012 <sobsi2012@gmail.com>

===== Forwarded message

=====

From: yagyesh ranjan <y.ranjan1729@gov.in>

To: "Ashiho Asosii Mao" <hq@bsi.gov.in>, "Ashiho Asosii" <aamao@bsi.gov.in>, "DHRITI BANERJEE" <director@zsi.gov.in>, "rs dot bora" <rs.bora@nic.in>, "Arvind Bhagat" <arvindbhagat-upsc@gov.in>, "DEEPALI GOEL" <deepali.goel@gov.in>, "Director Forest Education" <dfe-dehradun@gov.in>, "DG FSI" <dgfsi@fsi.nic.in>, "Director IGNFA" <director@ignfa.gov.in>, <dg@icfre.org>, "Akaksha Mahajan" <dig-cza@nic.in>, "Dr. Gobind Sagar Bhardwaj" <ms-ntca@nic.in>, "Ramesh Kumar Pandey" <ig-ntca@nic.in>, "Mohammad Sajid Sultan" <aig2-ntca@nic.in>, "ABHAY BHASKAR BARAPATRE" <abhay.78@gov.in>, "Birbal RaM" <birbalmeena.69@gov.in>, "Sanjay Shukla" <ms-cza@nic.in>, "Ravinder Singh Rawat" <fo-cza@nic.in>, "H. V. GIRISHA" <addldir-wccb@gov.in>, <dwii@wii.gov.in>,

<baljeet@wii.gov.in>, "SUNIL SHARMA"
<ms293.ifs@nic.in>, "Joint Director" <jd-wl@nic.in>,
"Registrar General" <rg.ngt@nic.in>, "Smt.Naaz Rizvi"
<n.rizvi@gov.in>, "SHAKTI KUMAR SINGH"
<shakti.nmnh@gov.in>, "V P Rajvedi" <vp.rajvedi@nic.in>,
"ARVIND KUMAR NAUTIYAL" <arvind.nautiyal@gov.in>,
"Chairman CPCB" <ccb.cpcb@nic.in>, "MS, CPCB"
<mscb.cpcb@nic.in>, "madhu" <madhu.cpcb@nic.in>,
"Director" <psdir@gbpihed.nic.in>, "Mr. C. Achalender
Reddy" <chairman@nba.nic.in>, <dir.sacon@wii.gov.in>,
"RAGHU KUMAR KODALI" <kodali.rk@gov.in>, "Achuta Nand
Shukla" <achuta.shukla@gov.in>, "prasoon tripathi"
<prasoon.tripathi76@gov.in>, "DIRECTOR DIRECTOR"
<director@iifm.ac.in>, "CAO CAO" <cao@iifm.ac.in>,
"RACHEL METHEWS" <rachel@iifm.ac.in>,
<director.iwst@gmail.com>, "Suveena Thakur"
<hp199.ifs@nic.in>, "Surabhi Rai" <surabhi.rai76@gov.in>,
"Ramesh Pandey" <ramesh.pandey@nic.in>, "Lalan Prasad
Sharma" <sharma.lp@nic.in>, "Shankar Lal Bairwa"
<sl.bairwa@nic.in>, "Naveen Kumar"
<naveen.kmr@gov.in>, "yagyesh ranjan"
<y.ranjan1729@gov.in>, "Satya Prakash"
<satya.prakash79@gov.in>, "DEEPIKA CHAUDHARY"
<am172@ifs.nic.in>
Cc: "Mr Tanmay Kumar" <tanmay.kumar-rj@gov.in>, "Mr
Satyajit Mishra" <satyajit.mishra@nic.in>, "Naveen Kumar"
<naveen.kmr@gov.in>, "Lalan Prasad Sharma"
<sharma.lp@nic.in>, "Akanksha Sachan"
<a.sachan92@gov.in>

Date: Tue, 06 Aug 2024 18:43:40 +0530

Subject: Lok Sabha Unstarred Question no. 3304 for answer
on 12.08.2024 regarding 'outsourcing of policy and
governance projects'.

===== Forwarded message

=====

Sir/Madam,

Please find attached herewith the O.M. dt.06.08.2024 seeking inputs for Lok Sabha Unstarred Question No. 3304 due for 12.08.2024.

with regards,

Yagyesh Ranjan,
ASO, Admin(P-II)
MoEFCC.

 **DOC010318-01032018180635.pdf**
1,017 KB

TOP PRIORITY
PARLIAMENT MATTER

No. ADNUB-4911/1/2024---II (E-243182)
Government of India
Ministry of Environment, Forest and Climate Change
(P.II Section)

1st Floor, Prithvi Wingham
Indira Paryavaran Bhawan,
Jor Bagh Road,
New Delhi 110003

Dated: 6th August, 2024

OFFICE MEMORANDUM

**Subject: Lok Sabha Unstarred Question No.3304 for answer on 12.08.2024 regarding
"Outsourcing of Policy and Governance Projects".**

The undersigned is directed to enclose herewith a copy of the subject question.

2. In this context, all the Divisions in the Ministry are requested to provide the point-wise replies to the above Question along with other requisite inputs as per format attached to the undersigned positively by 07.08.2024 by 10.00 A.M. It is also requested to provide this information in respect of all the subordinate offices, Autonomous bodies, Boards, Tribunals and any other organization working under their administrative control /being dealt with by them.

3. Soft copy of the information may be sent at: a.sachan92@gov.in and y.ranjan1729@gov.in.

Encl: As above


(Lalan Prasad Sharma)
Deputy Secretary to the Govt. of India
Tele: 011-20819294
[e-mail: ds.pl-moefcc@gov.in]

To
All Divisional Head. MoEFCC

Copy to:

- (i) PPS to AS(Admin)
- (ii) PPS to JS(Admin)

Outsourcing of Policy and Governance Projects

3304 Shri Tanuj Punia:

Will the Minister of ENVIRONMENT, FOREST AND CLIMATE CHANGE

पर्यावरण, वन और जलवायु परिवर्तन मंत्री

be pleased to state:

(a) whether the Ministry has entered into an agreement with any consultancy, private company or non-government organization to provide research and other support for any policy, governance or administrative work;

(b) if so, the details of all such agreements entered into during the last three years;

(c) whether the Ministry has done any impact analysis of the contribution of such consultancy, private company or non-government organization to the policy or governance initiatives of the Ministry; and

(d) if so, the details thereof, if not, the reasons therefor?

**Lok Sabha Unstarred Question No.3304 for answer on 12.08.2024 regarding
"Outsourcing of Policy and Governance Projects".**

1. Name of the Division/ Unit/Cell:
2. Name of the Organization/Institute/Board/Tribunal, etc:
(As the case may be)

Name of the Pvt. Company/ Consultancy Firm/ NGO	Purpose (i) Policy (ii) Governance (iii) Administrative work <i>(pl. provide complete details)</i>	Details of the agreements signed during last three years	Details of the Impact Analysis, if any done to the policy and governance issues.	If impact analysis has not been done, reasons, therefor	Remarks



Sinchita Biswas <sinchita.tina@gmail.com>

Fwd: Sharing of equipments/resources funded by Govt. of India on I-STEM portal - reg

1 message

Dr Sudhansu Sekhar Dash <ssdash@bsi.gov.in>
To: Sudhir Kumar Yadav <skyadav@bsi.gov.in>
Cc: sinchita tina <sinchita.tina@gmail.com>

Wed, Sep 25, 2024 at 12:38 PM

Please circulate to all regional center's to upload all the instruments they have

From: "Ashiho Asosii" <aamao@bsi.gov.in>
To: "Dr Sudhansu Sekhar Dash" <ssdash@bsi.gov.in>
Sent: Tuesday, September 24, 2024 4:39:16 PM
Subject: Fwd: Sharing of equipments/resources funded by Govt. of India on I-STEM portal - reg

Circulate to all regional center's to upload all the instruments they have
Sindhu
27/9/2024

Any action taken?

From: "Nameeta Prasad" <nameeta.prasad@gov.in>
To: sunilnihe@gmail.com, "Ashiho Asosii" <aamao@bsi.gov.in>, "DHRITI BANERJEE" <director@zsi.gov.in>, sobsi2012@gmail.com, "rs dot bora" <rs.bora@nic.in>, "SUSAN GEORGE" <susan.george@nic.in>
Sent: Sunday, September 22, 2024 6:42:17 PM
Subject: Fwd: Sharing of equipments/resources funded by Govt. of India on I-STEM portal - reg

Nameeta Prasad

Joint Secretary to the Govt of India,
Ministry of Environment, Forest and Climate Change,
New Delhi

===== Forwarded message =====

From: Mohammad Shavez <m.shavez@gov.in>
To: "Shri Jitendra Kumar" <dgfindia@nic.in>, "Mr Naresh Gangwar" <asnpg.mefcc@gov.in>, "Sh.Pravir Pandey" <asfa-mef@nic.in>, "Sushil Awasthi" <adgwl-mef@nic.in>, "A K Mohanty" <adgfc-mef@nic.in>, "sujit.baju sujit.baju" <sujit.baju@gov.in>, "Neelesh Kumar Sah" <sahnk@cag.gov.in>, "Subhash Chandra" <subhash.chandra65@gov.in>, "Mr Satyajit Mishra" <satyajit.mishra@nic.in>, "Subhash CAMPA" <adhoc-campa-mef@nic.in>, "C. S. MISHRA" <cs.mishra69@gov.in>, "Gunsagar Jain" <gunsagar.jain@gov.in>, "V L Roui Kullai" <igf.naeb@gov.in>, "Mr Lalsanglur" <lal.sanglur@nic.in>, "RAGHU KUMAR KODALI" <kodali.rk@gov.in>, "Sharath Kumar Pallerla" <sharath.kr@gov.in>, "Rajasree Ray" <rajasree.r@nic.in>, "Rita Khanna" <rita.khanna@nic.in>, "Ms Nameeta Prasad" <nameeta.prasad@gov.in>, "R Raghu Prasad" <raghu.prasad@gov.in>, "s rajesh Rajesh" <rajesh.skumar@gov.in>, "Ramesh Pandey" <ramesh.pandey@nic.in>, "Sunamani Kerketta" <s.kerketta66@gov.in>, "Central Zoo Authority Central Zoo Authority" <cza@nic.in>, "Sanjay Shukla" <ms-cza@nic.in>
Cc: "Rita Khanna" <rita.khanna@nic.in>, "Aravind K" <diric-moefcc@gov.in>, "H V C CHARY GUNTUPALLI" <hvc.chary@nic.in>, "Arvind Bhagat" <arvindbhagat-upsc@gov.in>
Date: Thu, 19 Sep 2024 14:18:00 +0530
Subject: Sharing of equipments/resources funded by Govt. of India on I-STEM portal - reg
===== Forwarded message =====

Respected Sir/Madam,

I am directed to refer to the meeting scheduled to be held under the Chairmanship of Shri Tarun Kapoor, Advisor to PM on 20.09.2024 at 11:30 AM through Video Conferencing on the above mentioned subject. A brief on the subject can be found below:

- i. Indian Science, Technology and Engineering facilities map (I-STEM) is a national web-portal established by the Office of Principal Scientific Advisor to Prime Minister, to list all scientific and analytical research equipment procured with public funds in academic and research institutions across the country.
 - ii. I-STEM facilitates the optimisation of usage of these facilities by researchers, industry and start-ups. Objective is to democratise the access to the state-of-art laboratory equipment and facilities regardless of geographical location or institutional affiliation.
 - iii. Research Institutions, R&D labs, Academic institutions under the administrative control of the Ministry have been requested to join I-STEM portal.
2. In this regard, it is requested that **Research Institutions/ R&D Labs/ Academic Institutions under the Administrative Control of this Ministry** may kindly register on the I-STEM portal and upload their respective equipment acquired by using Gov funds by 04:00 PM today (19.09.2024). 'How to register' is available on the portal itself which is maintained by O/o Principal Scientific Advisor to the Govt of India. In the 'Type of Institution' tab, Others may be selected.
3. The information will be collated from the portal and will be presented for the meeting scheduled tomorrow with PMO.
4. This may be treated as MOST URGENT and confirmation of registration and uploading the required information (as given in para 3 of attached DO letter) may be sent by revert email.

With Regards,

M Shavez

Section Officer (LiFE)
MoEFCC, New Delhi

--
Thank you.

A. A. Mao
Director
Botanical Survey of India, Kolkata
Government of India
Ministry of Environment, Forest & Climate Change

अजय के. सूद

भारत सरकार के प्रमुख वैज्ञानिक सलाहकार

Ajay K. Sood

Principal Scientific Adviser to the Govt. of India



सत्यमेव जयते

विज्ञान भवन एनेक्सी
मौलाना आजाद मार्ग, नई दिल्ली - 110011

Vigyan Bhawan Annexe

Maulana Azad Road, New Delhi - 110011

Tel. : +91-11-23022112

Fax: +91-11-23022113

E-mail : sood.ajay@gov.in

office-psa@nic.in

Website : www.psa.gov.in

D.O. No.:G-30011/14/2021-PROJ

Dated: 19th July, 2024

Dear Secretaries,

The I-STEM (Indian Science, Technology and Engineering facilities Map) is a national web-portal established by this office, listing all the scientific & analytical research equipment procured with public funds in academic and research institutions across the country. This portal was launched and dedicated to nation by Hon'ble Prime Minister in January, 2020.

2. The I-STEM facilitates sharing of R&D resources/equipment bought by public fund in order to optimize the usage of these resources established across the country by researchers, industries, and start-ups. This not only promotes accessibility but also saves public funds and institutions from the financial burden of acquiring costly equipment that already exists in the country. Its primary objective is to democratize access to state-of-the-art laboratory equipment and facilities, regardless of geographical location or institutional affiliation.

3. It would be highly appreciated if the Research Institutions/R&D Labs/Academic Institutions under the administrative control of your Department/Ministry can join the I-STEM Portal and upload their respective equipment acquired by using Govt funds. This will not only help them to get connected to the larger research and innovation eco-system of the country, but also, in achieving effective utilization of resources.

4. Needless to say that this is an important initiative which will play an important role in improving the R&D eco-system in the country and will help in increasing the researchers base in the country. In order to take this initiative forward, I request you to kindly nominate a nodal officer who can be in touch with Dr. Vishal Choudhary, Scientist-F O/o PSA (choudhary.vishal@gov.in) who is the contact point from my office.

5. Looking forward to your support in taking this endeavor forward.

With warm regards,

Yours sincerely,

(Ajay K. Sood)

To,

All Secretaries as per attached list

Email

Technical Section BSI

Fwd: Sharing of equipments/resources funded by Govt. of India on I-STEM portal - reg

From : Technical Section BSI <tech@bsi.gov.in> Fri, Sep 27, 2024 10:32 AM
1 attachment

Subject : Fwd: Sharing of equipments/resources funded by Govt. of India on I-STEM portal - reg

To : ANRC, BSI <bsianrc1972@gmail.com>, APRC, BSI <bsiapr77@gmail.com>, Dinesh Kumar Agrawala <dk.agarwal76@gov.in>, Dr. Kumar Ambrish, Scientist B BSI <kambrish@bsi.gov.in>, Benniamin, Asir <fernsbenni@gmail.com>, Bhaumik, Manas <dr_manasb@yahoo.com>, CBL, BSI <cbl_bsi@yahoo.com>, CNH, BSI <calherbarium@yahoo.co.in>, Dr V Ranjan <cc@bsi.gov.in>, Chauhan, Sandeep <sandeep.chauhan@rediffmail.com>, Hoo, BSI

<https://email.gov.in/printmessage?id=C:70026&tz=Asia/Kolkata&sum=1>

1/11

Hqrs <hoo-hqrs@bsi.gov.in>, DRC, BSI <bsi_deccancircle@rediffmail.com>, Rajib Gogoi <rajibgogoi@bsi.gov.in>, Gupta, Pratibha <drpratibha2014@gmail.com>, Gupta, R K <rkguptabsi@yahoo.in>, IBG, BSI <ibg_bsi@rediffmail.com>, ISIM, BSI <bsiisim@rediffmail.com>, Sriman Lal Meena <slmeena@bsi.gov.in>, ADMIN BSI <admin@bsi.gov.in>, NRC, BSI <bsinc2001@rediffmail.com>, Odyuo, N. <nodyuo@yahoo.com>, Odyuo, Nripemo <nripemo@gmail.com>, Dr. S. K. Singh <sksingh@bsi.gov.in>, Ladan Rasingam <lrasingam@bsi.gov.in>, Rawat, Vineet <rawat_vk2107@rediffmail.com>, Vineet Kumar Rawat <vineetrawat@bsi.gov.in>, SHRC, BSI <bsigantok@hotmail.com>, SINGH, LALJI

<https://email.gov.in/printmessage?id=C:70026&tz=Asia/Kolkata&sum=1>

2/11

27/09/2024, 10:33

Email

<laljisingh1970@rediffmail.com>, BSI SRC <sc@bsi.gov.in>, Sharief, M.U. <shariefbsi@yahoo.co.in>, Devendra Singh <dsingh@bsi.gov.in>, WRC, BSI <bsiwrpcpune@gmail.com>, althafgrass <althafgrass@gmail.com>, bsi, drslmeena <drslmeena.bsi@gmail.com>, drdkbsi <drdkbsi@gmail.com>, sandeephorti <sandeephorti@gmail.com>, sivanthimurugan <sivanthimurugan@rediffmail.com>, Vinay Ranjan <ranjanv_alld@rediffmail.com>, Dr Pratibha Gupta, CBL2024 <drpratibha2024@gmail.com>, Hoo, BSI Hqrs <hoo-hqrs@bsi.gov.in>, Dr C Murugan <cmurugan@bsi.gov.in>

Cc : Ashiho Asosii <aamao@bsi.gov.in>, Dr Sudhansu Sekhar Dash <ssdash@bsi.gov.in>, Umeshkumar L. Tiwari

<https://email.gov.in/printmessage?id=C:70026&tz=Asia/Kolkata&sum=1>

3/11

27/09/2024, 10:33

Email

<ukltiwari@bsi.gov.in>, Sudhir Kumar Yadav <skyadav@bsi.gov.in>, tech bsi2021 <tech.bsi2021@gmail.com>

Sir / Madam,

With reference to the above mentioned subject, I am directed to forward herewith a trailing mail received from the MoEF&CC, New Delhi for your kind perusal and proving necessary inputs following the instructions for registering on the I-STEM portal.

The registering and uploading the required data on I-STEM, the data may be sent to this directorate for necessary action.

Thanking You,

With regards,
Sudhir Yadav
Botanist, HQ

Technical Section

**Botanical Survey of India, HQ
Salt Lake City, Kolkata - 700 064**

Emails: tech@bsi.gov.in ; tech.bsi2021@gmail.com

From: "Sudhir Kumar Yadav" <skyadav@bsi.gov.in>

To: "Technical Section BSI" <tech@bsi.gov.in>, "tech bsi2021" <tech.bsi2021@gmail.com>

Sent: Friday, September 27, 2024 10:13:13 AM

Subject: Fwd: Sharing of equipments/resources funded by Govt. of India on I-STEM portal - reg

<https://email.gov.in/printmessage?id=C:70026&tz=Asia/Kolkata&sum=1>

4/11

From: "Dr Sudhansu Sekhar Dash" <ssdash@bsi.gov.in>
To: "Sudhir Kumar Yadav" <skyadav@bsi.gov.in>
Cc: "sinchita tina" <sinchita.tina@gmail.com>
Sent: Wednesday, September 25, 2024 12:38:32 PM
Subject: Fwd: Sharing of equipments/resources funded by Govt. of India on I-STEM portal - reg

Please circulate to all regional center's to upload all the instruments they have

From: "Ashiho Asosii" <aamao@bsi.gov.in>
To: "Dr Sudhansu Sekhar Dash" <ssdash@bsi.gov.in>
Sent: Tuesday, September 24, 2024 4:39:16 PM
Subject: Fwd: Sharing of equipments/resources funded by Govt. of India on I-STEM portal - reg

Any action taken?

From: "Nameeta Prasad" <nameeta.prasad@gov.in>
To: sunilnihe@gmail.com, "Ashiho Asosii" <aamao@bsi.gov.in>, "DHRITI BANERJEE" <director@zsi.gov.in>, sobsi2012@gmail.com, "rs dot bora" <rs.bora@nic.in>, "SUSAN GEORGE" <susan.george@nic.in>
Sent: Sunday, September 22, 2024 6:42:17 PM
Subject: Fwd: Sharing of equipments/resources funded by Govt. of India on I-STEM portal - reg

Nameeta Prasad

Joint Secretary to the Govt of India,
Ministry of Environment, Forest and Climate Change,
New Delhi

<https://email.gov.in/h/printmessage?id=C:70026&tz=Asia/Kolkata&sum=1>

5/11

<https://email.gov.in/h/printmessage?id=C:70026&tz=Asia/Kolkata&sum=1>

8/11

27/09/2024, 10:33

Email

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II. I-STEM facilitates the optimisation of usage of these facilities by researchers, industry and start-ups. Objective is to democratise the access to the state-of-art laboratory equipment and facilities regardless of geographical location or institutional affiliation.

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4. This may be treated as MOST URGENT and confirmation of registration and uploading the required information (as given in para 3 of attached DO letter) may be sent by revert email.

With Regards,

M Shavez

Section Officer (LIFE)
MoEFCC, New Delhi

Thank you.

A. A. Mao
Director
Botanical Survey of India, Kolkata
Government of India
Ministry of Environment, Forest & Climate Change

<https://email.gov.in/h/printmessage?id=C:70026&tz=Asia/Kolkata&sum=1>

7/11

===== Forwarded message

=====

From: Mohammad Shavez <m.shavez@gov.in>
To: "Shri Jitendra Kumar" <dgfindia@nic.in>, "Mr Naresh Gangwar" <asnpg.mefcc@gov.in>, "Sh.Pravir Pandey" <asfa-mef@nic.in>, "Sushil Awasthi" <adgwl-mef@nic.in>, "A K Mohanty" <adgfc-mef@nic.in>, "sujit.baju sujit.baju" <sujit.baju@gov.in>, "Neelesh Kumar Sah" <sahnk@cag.gov.in>, "Subhash Chandra" <subhash.chandra65@gov.in>, "Mr Satyajit Mishra" <satyajit.mishra@nic.in>, "Subhash CAMPA" <adhoc-campa-mef@nic.in>, "C. S. MISHRA" <cs.mishra69@gov.in>, "Gunsagar Jain" <gunsagar.jain@gov.in>, "V L Roui Kullai" <igf.naeb@gov.in>, "Mr Lalsanglur" <lal.sanglur@nic.in>, "RAGHU KUMAR KODALI" <kodali.rk@gov.in>, "Sharath Kumar Pallerla" <sharath.kr@gov.in>, "Rajasree Ray" <rajasree.r@nic.in>, "Rita Khanna" <rita.khanna@nic.in>, "Ms Nameeta Prasad" <nameeta.prasad@gov.in>, "R Raghu Prasad" <raghu.prasad@gov.in>, "s rajesh Rajesh" <rajesh.skumar@gov.in>, "Ramesh Pandey" <ramesh.pandey@nic.in>, "Sunamani Kerketta" <s.kerketta66@gov.in>, "Central Zoo Authority Central Zoo Authority" <cza@nic.in>, "Sanjay Shukla" <ms-cza@nic.in>
Cc: "Rita Khanna" <rita.khanna@nic.in>, "Aravind K" <diric-moefcc@gov.in>, "H V C CHARY GUNTUPALLI" <hvc.chary@nic.in>, "Arvind Bhagat" <arvindbhagat-upsc@gov.in>
Date: Thu, 19 Sep 2024 14:18:00 +0530
Subject: Sharing of equipments/resources funded by Govt. of India on I-STEM portal - reg

===== Forwarded message

=====

Respected Sir/Madam,

<https://email.gov.in/h/printmessage?id=C:70026&tz=Asia/Kolkata&sum=1>

8/11

– Letter from Oo PSA.pdf
220 KB

From: Sudhir Kumar Yadav <skyadav@bsi.gov.in> Fri, Sep 27, 2024 10:19 AM
1 attachment
Subject: Fwd: Sharing of equipments/resources funded by Govt. of India on I-STEM portal - reg
To: Technical Section BSI <tech@bsi.gov.in>, tech bsi2021 <tech.bsi2021@gmail.com>

From: "Dr Sudhansu Sekhar Dash" <ssdash@bsi.gov.in>
To: "Sudhir Kumar Yadav" <skyadav@bsi.gov.in>
Cc: "sinchita tina" <sinchita.tina@gmail.com>
Sent: Wednesday, September 25, 2024 12:38:32 PM
Subject: Fwd: Sharing of equipments/resources funded by Govt. of India on I-STEM portal - reg

Please circulate to all regional center's to upload all the instruments they have

From: "Ashiho Asosii" <aamao@bsi.gov.in>
To: "Dr Sudhansu Sekhar Dash" <ssdash@bsi.gov.in>
Sent: Tuesday, September 24, 2024 4:39:16 PM

<https://email.gov.in/h/printmessage?id=C:70026&tz=Asia/Kolkata&sum=1>

8/11

Subject: Fwd: Sharing of equipments/resources funded by Govt. of India on I-STEM portal - reg

Any action taken?

From: "Nameeta Prasad" <nameeta.prasad@gov.in>
To: sunilnihe@gmail.com, "Ashiho Asosii" <aamao@bsi.gov.in>, "DHRITI BANERJEE" <director@zsi.gov.in>, sobsi2012@gmail.com, "rs dot bora" <rs.bora@nic.in>, "SUSAN GEORGE" <susan.george@nic.in>
Sent: Sunday, September 22, 2024 6:42:17 PM
Subject: Fwd: Sharing of equipments/resources funded by Govt. of India on I-STEM portal - reg

Nameeta Prasad

Joint Secretary to the Govt of India,
 Ministry of Environment, Forest and Climate Change,
 New Delhi

===== Forwarded message

From: Mohammad Shavez <m.shavez@gov.in>
To: "Shri Jitendra Kumar" <dgfindia@nic.in>, "Mr Naresh Gangwar" <asnpg.mefcc@gov.in>, "Sh.Pravir Pandey" <asfa-mef@nic.in>, "Sushil Awasthi" <adgwl-mef@nic.in>, "A K Mohanty" <adgfc-mef@nic.in>, "sujit.baju sujit.baju" <sujit.baju@gov.in>, "Neelesh Kumar Sah" <sahnk@cag.gov.in>, "Subhash Chandra" <subhash.chandra65@gov.in>, "Mr Satyajit Mishra" <satyajit.mishra@nic.in>, "Subhash CAMPA" <adhoc-campa-mef@nic.in>, "C. S. MISHRA" <cs.mishra69@gov.in>,

<https://email.gov.in/h/printmessage?d=C:70026&lc=Asia%2FIndia&sm=1>

9/11

"Gunsagar Jain" <gunsagar.jain@gov.in>, "V L Roui Kullai" <igf.naeb@gov.in>, "Mr Lalsanglur" <lal.sanglur@nic.in>, "RAGHU KUMAR KODALI" <kodali.rk@gov.in>, "Sharath Kumar Pallerla" <sharath.kr@gov.in>, "Rajasree Ray" <rajasree.r@nic.in>, "Rita Khanna" <rita.khanna@nic.in>, "Ms Nameeta Prasad" <nameeta.prasad@gov.in>, "R Raghu Prasad" <raghu.prasad@gov.in>, "s rajesh Rajesh" <rajesh.skumar@gov.in>, "Ramesh Pandey" <ramesh.pandey@nic.in>, "Sunamani Kerketta" <s.kerketta66@gov.in>, "Central Zoo Authority Central Zoo Authority" <cza@nic.in>, "Sanjay Shukla" <ms-cza@nic.in> Cc: "Rita Khanna" <rita.khanna@nic.in>, "Aravind K" <diric-moefcc@gov.in>, "H V C CHARY GUNTUPALLI" <hvc.chary@nic.in>, "Arvind Bhagat" <arvindbhagat-upsc@gov.in>

Date: Thu, 19 Sep 2024 14:18:00 +0530

Subject: Sharing of equipments/resources funded by Govt. of India on I-STEM portal - reg

===== Forwarded message

Respected Sir/Madam,

I am directed to refer to the meeting scheduled to be held under the Chairmanship of Shri Tarun Kapoor, Advisor to PM on 20.09.2024 at 11:30 AM through Video Conferencing on the above-mentioned subject. A brief on the subject can be found below:

i. Indian Science, Technology and Engineering facilities map (I-STEM) is a national web-portal established by the Office of Principal Scientific Advisor to Prime Minister, to list all scientific and analytical research equipment procured with public funds in academic and research institutions across the country.

ii. I-STEM facilitates the optimisation of usage of these facilities by researchers, industry and start-ups. Objective is to democratise the access to the state-of-art laboratory equipment and facilities regardless of geographical location or institutional affiliation.

iii. Research Institutions, R&D labs, Academic institutions under the administrative control of the Ministry have been requested to join I-STEM portal.

2. In this regard, it is requested that Research Institutions/ R&D Labs/ Academic Institutions under the Administrative Control of this Ministry may kindly register on the I-STEM portal and upload their respective equipment acquired by using GoI funds by 04:00 PM today (19.09.2024). 'How to register' is available on the portal itself which is maintained by O/o Principal Scientific Advisor to the Govt of India. In the 'Type of Institution' tab, Others may be selected.

<https://email.gov.in/h/printmessage?d=C:70026&lc=Asia%2FIndia&sm=1>

10/11

3. The information will be collated from the portal and will be presented for the meeting scheduled tomorrow with PMO.

4. This may be treated as MOST URGENT and confirmation of registration and uploading the required information (as given in para 3 of attached DO letter) may be sent by revert email.

With Regards,

M Shavez

Section Officer (LIFE)
 MoEFCC, New Delhi

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Thank you.

A. A. Mao
Director
Botanical Survey of India, Kolkata
Government of India
Ministry of Environment, Forest & Climate Change

_ Letter from Oo PSA.pdf
 220 KB

Email

Min. file

Technical Section BSI

Re: PM Surya Ghar - Muft Bijli Yojana - Updation of building details on national portal

From : DISHANT KUMAR <dishant.kumar51@gov.in>

Tue, Dec 03, 2024 05:10 PM

Subject : Re: PM Surya Ghar - Muft Bijli Yojana - Updation of building details on national portal

To : Joint Director FGD <jdnfdmc@fsi.nic.in>, Registrar General <rg.ngt@nic.in>, zsikolkata@gmail.com, DHRITI BANERJEE <director@zsi.gov.in>, Technical Section BSI <tech@bsi.gov.in>, Saurabh vashisth <saurabh.vashisth@gov.in>, DG FSI <dgfsi@fsi.nic.in>, Director IGNFA <director@ignfa.gov.in>, dirnmnh@gmail.com, dg@icfre.org, DIRECTOR DIRECTOR <director@iifm.ac.in>, dwii@wii.gov.in, baljeet@wii.gov.in, Dr. B Balaji <secretary@nba.nic.in>, General Section <ngt-genadmin@gov.in>, Public Grievance <publicgrievance-ngt@gov.in>, MS, CPCB <mscb.cpcb@nic.in>, NATIONAL ZOOLOGICAL

Mail forwarded to
H.O. H.O.O. for n.a.
(for second). Spunhu
5/12/2024

<https://mail.gov.in/out/ntmessage?n=12051827-Asia/Kolkata&xm=1>

1/9

12/5/24, 10:43 AM

Email

<nzpzoo-cza@nic.in>, Sanjay Shukla <ms-cza@nic.in>, Akaksha Mahajan <dig-cza@nic.in>, Additional Director <addldir-wccb@gov.in>, HR - NCSCM <hr@ncscm.res.in>, salimali@sacon.in, ankitgupta moef <ankitgupta.moef@gmail.com>, Regional Director FSI Kolkata <rdez@fsi.nic.in>, s kr sharan <s.kr.sharan@gmail.com>, head it <head_it@icfre.gov.in>, Dinabandhu Gouda <dinabandhu.cpcb@nic.in>, S.K.Sharma <sks.cpcb@nic.in>, Naresh Kumar <naresh1612@nic.in>, Director <psdir@gbpihed.nic.in>, Dr. Gobind Sagar Bhardwaj <ms-ntca@nic.in>, Dr Vaibhav C Mathur <dig1-ntca@nic.in>, Ramesh Kumar Pandey <ig-ntca@nic.in>, sandeep cpcb <sandeep.cpcb@nic.in>, Ashiho Asosii <aamao@bsi.gov.in>, Smt.Naaz Rizvi <n.rizvi@gov.in>, Baljeet Kaur <baljeet.wii@gov.in>, Director Forest Education <dfe-dehradun@gov.in>, ANURAG BHARDWAJ <rj099.ifs@nic.in>

Cc : Mr Satyajit Mishra <satyajit.mishra@nic.in>, rakesh sharma67 <rakesh.sharma67@nic.in>, Chiranjib Mridha <chiranjibmridha-cwc@nic.in>, Santosh Kumar <santosh76@nic.in>

Sir/Madam,

<https://mail.gov.in/out/ntmessage?n=12051827-Asia/Kolkata&xm=1>

2/9

I am directed to inform that all the identified offices/ organizations of the Ministry has filled their respective information on MNRE portal. The NHPC (nodal body for implementation of Suryghar Yojana) is under process for floating a bid to carry out installation of solar rooftops.

2. It is kindly requested to re-check the information submitted by your Nodal Officers on the MNRE portal to ensure accuracy and avoid any inconvenience at a later stage.

3. Additionally, it has been observed that a few offices/organizations have yet to provide the name of their Nodal Officer on the portal. It is requested to complete the same at the earliest.

Regards
Dishant Kumar
SO(GA)

----- On Wed, 06 Nov 2024 14:07:43 +0530 **DISHANT KUMAR**
<dishant.kumar51@gov.in> wrote ---

Sir/Madam,
May please find below contact information of the NHPC official who is coordinating with this Ministry regarding filling up of data on Suryaghar Portal.

Name: Mr. Animesh
Contact No. 9971560077
Email: nrelrts@nhpc.nic.in

Regards
Dishant Kumar
SO(GA)
MOEFCC

<https://email.gov.in/h/printmessage?id=C:71993&tz=Asia/Kolkata&xm=1>

3/9

----- On Tue, 05 Nov 2024 17:35:50 +0530 **DISHANT KUMAR**
<dishant.kumar51@gov.in> wrote ---

1.2024 to review the progress for saturation of all Government buildings with solar rooftops.
It is requested to upload the information on MNRE portal latest by 07.11.2024.

Kumar
MoEF&CC

From : DISHANT KUMAR <dishant.kumar51@gov.in>
Subject : Re: PM Surya Ghar - Muft Bijli Yojana - Updation of building details on national portal
To : Joint Director FGD <jdnfdmc@fsi.nic.in>, Registrar General <rg.ngt@nic.in>, zsikolkata@gmail.com, DHRITI BANERJEE <director@zsi.gov.in>, Technical Section BSI <tech@bsi.gov.in>, Saurabh vashisth <saurabh.vashisth@gov.in>, DG FSI

Wed, Nov 06, 2024 02:07 PM

<dgfsi@fsi.nic.in>, Director IGNFA
 <director@ignfa.gov.in>, dirnmnh@gmail.com,
 dg@icfre.org, DIRECTOR DIRECTOR
 <director@iifm.ac.in>, dwii@wii.gov.in,
 baljeet@wii.gov.in, Dr. B Balaji
 <secretary@nba.nic.in>, General Section <ngt-
 genadmin@gov.in>, Public Grievance
 <publicgrievance-ngt@gov.in>, MS, CPCB
 <mscb.cpcb@nic.in>, NATIONAL ZOOLOGICAL
 <nzpzoo-cza@nic.in>, Sanjay Shukla <ms-
 cza@nic.in>, Akaksha Mahajan <dig-cza@nic.in>,
 Additional Director <addldir-wccb@gov.in>, HR -
 NCSCM <hr@ncscm.res.in>, salimali@sacon.in,
 ankitgupta moef <ankitgupta.moef@gmail.com>,
 Regional Director FSI Kolkata <rdez@fsi.nic.in>, s kr
 sharan <s.kr.sharan@gmail.com>, head it
 <head_it@icfre.gov.in>, Dinabandhu Gouda
 <dinabandhu.cpcb@nic.in>, S.K.Sharma
 <sks.cpcb@nic.in>, Naresh Kumar
 <naresh1612@nic.in>, Director
 <psdir@gbpihed.nic.in>, Dr. Gobind Sagar Bhardwaj
 <ms-ntca@nic.in>, Dr Vaibhav C Mathur <dig1-
 ntca@nic.in>, Ramesh Kumar Pandey <ig-
 ntca@nic.in>, sandeep cpcb <sandeep.cpcb@nic.in>,

<https://email.gov.in/print/message?n=11193812/Asia/Kolkata&xm=1>

5/9

12/5/24, 10:43 AM

Email

Ashiho Asosii <aamao@bsi.gov.in>, Smt.Naaz Rizvi
 <n.rizvi@gov.in>, Baljeet Kaur <baljeet.wii@gov.in>,
 Director Forest Education <dfe-dehradun@gov.in>,
 ANURAG BHARDWAJ <rj099.ifs@nic.in>

Cc : Mr Satyajit Mishra <satyajit.mishra@nic.in>, rakesh
 sharma67 <rakesh.sharma67@nic.in>, Chiranjib
 Mridha <chiranjibmridha-cwc@nic.in>

Sir/Madam,

May please find below contact information of the NHPC official who is coordinating with this Ministry regarding filling up of data on Suryaghar Portal

Name: Mr. Animesh
 Contact No. 99/1560077
 Email: anelts@nhpc.co.in

Regards
 Dishant Kumar
 SO(CA)
 MOEF&C

---- On Tue, 05 Nov 2024 17:35:50 +0530 **DISHANT KUMAR**
<dishant.kumar51@gov.in> wrote ---

1.2024 to review the progress for saturation of all Government buildings with solar rooftops.
 It is requested to upload the information on MNRE portal latest by 07.11.2024.

Kumar

MoEF&C

<https://email.gov.in/print/message?n=11193812/Asia/Kolkata&xm=1>

6/9

From : DISHANT KUMAR <dishant.kumar51@gov.in>
Subject : PM Surya Ghar - Muft Bijli Yojana - Updation of building details on national portal

Tue, Nov 05, 2024 06:01 PM
1 attachment

To : Joint Director FGD <jdnfdmc@fsi.nic.in>, Registrar General <rg.ngt@nic.in>, zsikolkata@gmail.com, DHRITI BANERJEE <director@zsi.gov.in>, Technical Section BSI <tech@bsi.gov.in>, Saurabh vashisth <saurabh.vashisth@gov.in>, DG FSI <dgfsi@fsi.nic.in>, Director IGNFA <director@ignfa.gov.in>, dirnmnh@gmail.com, dg@icfre.org, DIRECTOR DIRECTOR <director@iifm.ac.in>, dwii@wii.gov.in, baljeet@wii.gov.in, Dr. B Balaji <secretary@nba.nic.in>, General Section <ngt-genadmin@gov.in>, Public Grievance <publicgrievance-ngt@gov.in>, MS, CPCB <mscb.cpcb@nic.in>, NATIONAL ZOOLOGICAL <nzpzoo-cza@nic.in>, Sanjay Shukla <ms-cza@nic.in>, Akaksha Mahajan <dig-cza@nic.in>,

<https://email.gov.in/h/printmessage?id=C:71993&tz=Asia/Kolkata&xim=1>

7/9

12/5/24, 10:43 AM

E mail

Additional Director <addldir-wccb@gov.in>, HR - NCSCM <hr@ncscm.res.in>, salimali@sacon.in, ankitgupta moef <ankitgupta.moef@gmail.com>, Regional Director FSI Kolkata <rdez@fsi.nic.in>, s kr sharan <s.kr.sharan@gmail.com>, head it <head_it@icfre.gov.in>, Dinabandhu Gouda <dinabandhu.cpcb@nic.in>, S.K.Sharma <sks.cpcb@nic.in>, Naresh Kumar <naresh1612@nic.in>, Director <psdir@gbpihed.nic.in>, Dr. Gobind Sagar Bhardwaj <ms-ntca@nic.in>, Dr Vaibhav C Mathur <dig1-ntca@nic.in>, Ramesh Kumar Pandey <ig-ntca@nic.in>, sandeep cpcb <sandeep.cpcb@nic.in>, Ashiho Asosii <aamao@bsi.gov.in>, Smt.Naaz Rizvi <n.rizvi@gov.in>, Baljeet Kaur <baljeet.wii@gov.in>, Director Forest Education <dfe-dehradun@gov.in>, ANURAG BHARDWAJ <rj099.ifs@nic.in>

Cc : Mr Satyajit Mishra <satyajit.mishra@nic.in>, rakesh sharma67 <rakesh.sharma67@nic.in>, Chiranjib Mridha <chiranjibmridha-cwc@nic.in>

Sir/ Madam,

I am directed to attach the PPT displayed during the VC meeting held on 05.11.2024 to review the progress for saturation of all Government buildings with solar rooftops. It is requested to upload the information on MNRE portal latest by 07.11.2024.

Regards,
Dishant Kumar
SO(GA)

<https://email.gov.in/h/printmessage?id=C:71993&tz=Asia/Kolkata&xim=1>

8/9

 **PPT Presentation dated 05.11.2024.pptx**
724 KB

Email

Min. file

Technical Section BSI

Re: Know Your Ministry : BETA version of Module 3 - reg.

From : sobsi2012@gmail.com Tue, Sep 03, 2024 06:34 PM
Subject : Re: Know Your Ministry : BETA version of Module 3 - reg. 1 attachment
To : Technical Section BSI <tech@bsi.gov.in>
Cc : DEEPALI GOEL <deepali.goel@gov.in>, Ashiho Asosii <aamao@bsi.gov.in>, Dr Sudhansu Sekhar Dash <ssdash@bsi.gov.in>, Umeshkumar L. Tiwari <ukltiwari@bsi.gov.in>, Sudhir Kumar Yadav <skyadav@bsi.gov.in>

Sir/Madam,

Please refer to the trailing email and attachment on the above subject.

2. In this regard, I am directed to request you to kindly furnish the comments on the BETA version of Know Your Ministry (KYM) module, available at the following link for BSI vis-a-vis the vetted storyboard sent earlier by BSI in the excel sheet attached herewith :-

Subject: Re: Fwd: Know Your Ministry : BETA version of Module 3 - reg.

Sir/ madam,

Please refer to the trailing email. Comments have not been received from BSI and ZSI yet. Kindly expedite the information urgently.

--- On Fri, 23 Aug 2024 11:07:51 +0530 DEEPALI GOEL <deepali.goel@gov.in> wrote ---

Sir/ madam,

Please refer to the subject mentioned above. It is requested to vet the content in respect of BSI and ZSI available under CS-II Division and furnish comments/ changes (if any) to this Ministry urgently.

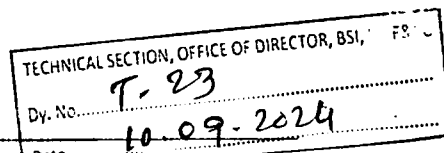
===== Forwarded message

=====

From: rs dot bora <rs.bora@nic.in>
To: "Vibhuti Panjiyar" <vibhuti.panjiyar@nic.in>, "DEEPALI GOEL" <deepali.goel@gov.in>
Date: Fri, 23 Aug 2024 10:43:58 +0530
Subject: Fwd: Know Your Ministry : BETA version of Module 3 - reg.

===== Forwarded message

=====



From: "Nameeta Prasad" <nameeta.prasad@gov.in>
To: "SUSAN GEORGE" <susan.george@nic.in>, "rs dot bora" <rs.bora@nic.in>, "Lipika Roy" <lipika.roy@gov.in>, "Bhawna singh" <bhawna.singh@gov.in>
Sent: Friday, August 23, 2024 9:30:04 AM

Module 3 - E & CC Divisions -

<https://www.cnkonline.com/downloads/design/MoEFCC-MS-02072024/story.html>

3. The comments may be furnished by 04.09.2024 (F/N) positively.

On Mon, Sep 2, 2024 at 6:37 PM Technical Section BSI <tech@bsi.gov.in> wrote:

Madam,
With reference to the above subject, I am directed to send herewith attachments, showing corrections in the respective slide in the modules.
The attached files my please be perused and corrected.
Thanking You,

With regards,
Dr. Sudhir Yadav
Botanist, HQ

Technical Section
Botanical Survey of India, HQ
Salt Lake City, Kolkata - 700 064
Emails: tech@bsi.gov.in ; tech.bsi2021@gmail.com

From: "DEEPALI GOEL" <deepali.goel@gov.in>
To: "Hoo, BSI Hqrs" <hoo-hqrs@bsi.gov.in>, "Ashiho Asosii Mao" <hq@bsi.gov.in>, "Ashiho Asosii" <aamao@bsi.gov.in>, "Technical Section BSI" <tech@bsi.gov.in>, ssdas@bsi.gov.in, zsikolkata@gmail.com, "DHRITI BANERJEE" <director@zsi.gov.in>, "Technical Section ZSI HQ, Kolkata" <technical@zsi.gov.in>
Cc: sobsi2012@gmail.com
Sent: Thursday, August 29, 2024 10:17:49 AM

Subject: Fwd: Know Your Ministry : BETA version of Module 3 - reg.

Nameeta Prasad

Joint Secretary to the Govt of India,
Ministry of Environment, Forest and Climate Change,
New Delhi

===== Forwarded message

=====

From: PRABHU SUBRAMANI <p.subramani@gov.in>
To: "Dr. Unmana" <unmana.sarangi@nic.in>, "Rajasekhar Ratti" <rs.ratti@gov.in>, "Dr. Ramesh M" <ramesh.motipalli@nic.in>, "Shard Sapra" <shard.sapra@nic.in>, "Rishi Kaushik, MoEF&CC" <Kaushik.rishi@nic.in>, "SUNDEEP" <sundeep.cpcb@nic.in>, "Anshu Singh" <anshu.s@nic.in>, "Ravindra Tiwari" <rk.tiwari83@gov.in>, "Aditya Narayan Singh" <aditya.narayan@nic.in>, "Dr. Ritesh Joshi" <ritesh.joshi@nic.in>, "Subhangi Jonnalagadda" <subhangi.g@nic.in>, "Bhawna singh" <bhawna.singh@gov.in>, "Achuta Nand Shukla" <achuta.shukla@gov.in>, "SUSAN GEORGE" <susan.george@nic.in>, "VEENU JOON" <joon.veenu@gov.in>, "Amit Vashishtha" <amit.vashishtha@nic.in>, "Hoo, BSI Hqrs" <hoo-hqrs@bsi.gov.in>, "Mr Lalsanglur" <lal.sanglur@nic.in>, "Aravind K Agrawal" <diric-moefcc@gov.in>
Cc: "Nameeta Prasad" <nameeta.prasad@gov.in>, "Mr Satyajit Mishra" <satyajit.mishra@nic.in>, "Sujit Kumar Bajpayee" <sujit.baju@gov.in>, "Dr S Kerketta" <s.kerketta@gov.in>, "RAGHU KUMAR KODALI"

<Kodali.rk@gov.in>, "Neelesh Kumar Sah"
<sahnk@cag.gov.in>, "Ved Prakash Mishra"
<mishra.vp@gov.in>, "Satyendra Kumar"
<satyendra.kumar07@nic.in>, "Sundar Ramanathan"
<r.sundar@nic.in>, "RT Division" <rtdiv-mefcc@gov.in>
Date: Fri, 23 Aug 2024 09:26:30 +0530
Subject: Know Your Ministry : BETA version of Module 3 -
reg.

==== Forwarded message
=====

Reminder 1

Madam/ Sir,

Please find the following link of **BETA version of Module 3 :**
Environment Wing of your division with this e-mail, it is requested to go
through the content and provide your inputs/comments **till 27.08.2024 by**
05:00 PM. If no inputs/comments are received, it may be considered as the
division has no inputs/comments to provide.

Module 3 -
https://www.cnkonline.com/downloads/design/MoEFCC_M3_02072024/story.html

This may please be treated as Most Urgent.
With regards,

Dr. S. Prabhu
Scientist - D

--

With regards

R S Bora
Deputy Secretary
Ministry of Environment Forest and Climate Change
Indira Paryavaran Bhawan, Jor Bagh

New Delhi
Ph 20819218

Comments for KYM - BETA modules.xlsx
11 KB



भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

EW 071783385 IN



स्पीड पोस्ट / SPEED POST



भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING

पाँचवाँ और छठा तल / 5TH & 6TH FLOOR

डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I

साल्टलेक, कोलकाता-६५ / SALT LAKE, KOLKATA - 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI- 286/1 (Parl.) / 2023 -Tech.

दिनांक/Date: 2nd August, 2024

सेवा में / To

The Secretary

Ministry of Environment, Forest and Climate Change

Indira Paryavaran Bhawan, Jor Bagh Road

New Delhi - 110003

(Kind attention: Dr. Priti Singh, Scientist-D (Joint Director), MoEF&CC, New Delhi)

Subject: Rajya Sabha Unstarred Question No. 1602 for answer on 06.08.2024 regarding "Production and Processing of Medicinal Plants" - reg.

महोदया / Madam,

With reference to the email dated 31.07.2024 from Dr. Priti Singh, Scientist-D (Joint Director), MoEF&CC, New Delhi in connection to the Rajya Sabha Unstarred Question No. 1602 for answer on 06.08.2024 regarding "Production and Processing of Medicinal Plants", I am directed to furnish herewith the following information for your kind perusal and necessary action as follows:

(a) Steps taken to train farmers across various states on Good Agricultural Practices (GAP) and Good Field Collection Practices (GFCP) for medicinal plants?

Answer: The above question does not pertain to the Botanical Survey of India.

(b) Achievements of the Government in promoting the production and processing of herbs and medicinal plants through these initiatives?

Answer: The above question does not pertain to the Botanical Survey of India.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय/Yours sincerely

(एस. एस. दाश / S. S. Dash)

वैज्ञानिक एफ / Scientist 'F'

(प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

2362
प्रेषित / DESPATCHED
Gml
28/8/24

TECHNICAL SECTION
DISPATCHED
No. T-.....1526
Date :.....02-08-2024

Email

Technical Section BSI

Fwd: Rajya Sabha Unstarred Question No. 1602 for answer on 06.08.2024 regarding "Production and Processing of Medicinal Plants" - reg.

From : Dr. Priti Singh
<priti.singh@gov.in>

Thu, Aug 01, 2024 04:05 PM

1 attachment

Subject : Fwd: Rajya Sabha
Unstarred Question No.
1602 for answer on
06.08.2024 regarding
"Production and
Processing of Medicinal
Plants" - reg.

Sincharin n
(hmm)
2/8/2024

To : Technical Section BSI
<tech@bsi.gov.in>, Dr
Sudhansu Sekhar Dash
<ssdash@bsi.gov.in>,
Ashiho Asosii
<aamao@bsi.gov.in>

Cc : Ved Prakash Mishra
<mishra.vp@gov.in>,
kavita tyagi
<kavita.tyagi@nic.in>

Sir,

Kindly refer to mail received from MoA.

BSI is requested to provide inputs, if any, to MoA (
kavita.tyagi@nic.in) directly.

Best Regards,
Dr. Priti Singh

TECHNICAL SECTION, OFFICE OF DIRECTOR, BSI, KOLKATA	
Dy. No.	T-744
Date	01.08.2024

Scientist 'D' (Joint Director)
Ministry of Environment, Forest & Climate Change
Government of India, New Delhi
Phone: 011-20819228
Intercom:5533

From: "Parliament Section" <parlsec-mef@nic.in>
To: "Ved Prakash Mishra" <mishra.vp@gov.in>, "Dr. Priti Singh" <priti.singh@gov.in>
Cc: "Mr Satyajit Mishra" <satyajit.mishra@nic.in>, "rakesh sharma67" <rakesh.sharma67@nic.in>, "VIKRAM SINGH Under Secretary Proc.II" <vikramsingh.rth@nic.in>, "Abhimanyu Kumar Sharma" <ak.sharma79@nic.in>
Sent: Thursday, August 1, 2024 10:17:10 AM
Subject: Fwd: Rajya Sabha Unstarred Question No. 1602 for answer on 06.08.2024 regarding "Production and Processing of Medicinal Plants" - reg.

From: "kavita tyagi" <kavita.tyagi@nic.in>
To: "A A SREEKANTH, Under Secretary (RC)" <aa.sreekanth@nic.in>, "GC/Parliament" <pqrd@nic.in>, "pqdac.krishi" <pqdac.krishi@nic.in>, "Ashish Malhotra" <ashish.malhotra@nic.in>, "aism 25" <aism.25@gov.in>, "apeda head quarter" <headq@apeda.gov.in>, tarunbajaj@apeda.gov.in, "Rabindra Prasad" <prasad.rabindra@gov.in>, midhaap@gmail.com, "Manoj Kumar" <manojias2008@nic.in>, midhaab@gmail.com, "KEDARNATH VERMA" <kn.verma@nic.in>, "Mrityunjaya Kumar Mishra" <mrityunjaya.m@nic.in>, "Parliament Section" <parlsec-mef@nic.in>, "Pankaj Kumar" <pankaj.kr93@gov.in>, "Bijender Singh Khola" <bijender.khola@nic.in>, "Muslim.T.R" <muslim.tr@nic.in>

Sent: Wednesday, July 31, 2024 12:08:11 PM

Subject: Rajya Sabha Unstarred Question No. 1602 for
Answer on 06.08.2024 regarding "Production and
Processing of Medicinal Plants" - reg.

Sir / Madam,

Kindly find the attachment regarding Rajya Sabha Unstarred Question No. 1602 for answer on 06.08.2024 regarding "Production and Processing of Medicinal Plants" asked by Shri G.C. Chandrashekhar and furnish the information latest by 31.07.2024 (5:00 PM).

With regards,

Dr. Kavita Tyagi,
Sr. Consultant,
National Medicinal Plants Board,
Ministry of Ayush



Scan Rajya Sabha Unstarred Question No.
1602.pdf
589 KB

1st Floor, IRCS, Annexe Building,
Near Indian Red Cross Society,
Red Cross Road, New Delhi-110001
Email: kavita.tyagi@nic.in
Date: 31.07.2024

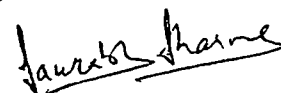
OFFICE MEMORANDUM

Subject: Rajya Sabha Unstarred Question No. 1602 for answer on 06.08.2024 regarding "Production and Processing of Medicinal Plants" asked by Shri G.C. Chandrashekhar -reg.

The undersigned is directed to refer to the above said Rajya Sabha Question as reproduced here under:

- (a) Steps taken to train farmers across various states on Good Agricultural Practices (GAP) and Good Field Collection Practices (GFCP) for medicinal plants?
(b) Achievements of the Government in promoting the production and processing of herbs and medicinal plants through these initiatives?

2. It is requested that the part-wise information of the above said question may kindly be furnished to the undersigned in hard as well as soft copy in MSWORD format (Email: kavita.tyagi@nic.in) latest by 31st July, 2024 (5:00 PM) positively. This may be treated as **MOST URGENT**.

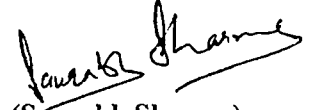


(Saurabh Sharma)
Manager (Marketing & Trade)

To

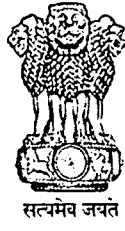
1. Joint Secretary, Ministry of Rural Development, Government of India, Krishi Bhavan, Dr. Rajendra Prasad Road, New Delhi – 110001 (Shri A. A. Sreekanth, US (GC/Parliament), Tele: 011-23070978, Email: aa.sreekanth@nic.in, Sh. Om Prakash, SO, 011-23386412, Shri Muslim T. R., SO (GC/Parliament), Tele: 23782502, Email: muslim.tr@nic.in, pqrd@nic.in)
2. Director (Crops/Estt & Parliament.), Ministry of Agriculture & Farmers Welfare, Krishi Bhavan, Dr. Rajendra Prasad Road, New Delhi, 110001 (Tel: 011-23383744/ 23386031 / 23386268/23389831, Email: prasad.rabindra@gov.in, pqdac.krishi@nic.in, ashish.malhotra@nic.in, aism.25@gov.in)
3. Dr. Tarun Bajaj, Director, Agricultural & Processed Food Products Export Development Authority (APEDA), 3rd Floor, NCUI Building 3, Siri Institutional Area, August Kranti Marg, opp. Asiad Village, New Delhi, Delhi 110016 Phone: (Mob.) :- 09811299852 / 91-11-41486013, 26513204, 26513219, 26514572, 26526196 98, 26534186, 26534870, 26850301, E-mail: directorbedf@apeda.gov.in, headq@apeda.gov.in, tarunbajaj@apeda.gov.in

4. Director, Mission for Integrated Development of Horticulture, Ministry of Agriculture and Farmers Welfare, 248A, Krishi Bhawan, Dr. Rajendra Prasad Road, New Delhi, 110001 (Tel: 23382383, Email: midhaap@gmail.com, manojias2008@nic.in, midhaab@gmail.com, kn.verma@nic.in, mrityunjaya.m@nic.in, Tel: 011-23388795 / 23388474 / 23074238/23382383, Sh. Pankaj Sharma, M: 9968185207, Mail: pankaj.sharma83@nic.in)
5. Mr. Rajeev Mathur, Section Officer, Parliament section, Ministry of Environment, Forests and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi 03 (Email: parlsec-mcf@nic.in, Tel: 011-24695332)
6. Assistant Section Officer, Ministry of Panchayati Raj, 9th Floor, Jeevan Bharati Building, Connaught Place, New Delhi-110001 (Email: pankaj.kr93@gov.in, bijender.khola@nic.in, Tel: 011- 23725309)
7. All desks of NMPB / SMPBs / SIIMs / RCFCs /Others



(Saurabh Sharma)

Manager (Marketing & Trade)



152



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA
सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX
तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING
पाँचवाँ और छठा तल / 5TH & 6TH FLOOR
डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I
साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064
Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइलसंख्या/File No.: BSI-286/1 (Parl.)/2024/Tech. /1572
सेवामें / To

दिनांक/Date : 07.08.2024

The Secretary
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan, Jor Bagh Road
New Delhi-110003

(Kind attention: Dr. Priti Singh, Scientist-D (Joint Director), MoEF&CC, New Delhi)

विषय / Sub: Lok Sabha Admitted Unstarred Question No. 3122 for answer on 09.08.2024 regarding
“Production and Processing of Medicinal Plants”-reg.

महोदया / Madam,

With reference to the email dated 06.08.2024 on the question ‘Production and Processing of Medicinal Plants’ under Question Diary No. 3122, I am directed to furnish the following information for your kind perusal:

a) *Whether the Government has launched any special scheme for the production and processing of herbs in Himalayan states including Uttarakhand and if so, the details thereof;*

Answer: This does not pertain to Botanical Survey of India.

b) *Whether the Government has made provision for imparting marketing and technological training to farmers under the said scheme and if so, the details thereof;*

Answer: This does not pertain to Botanical Survey of India.

c) *Whether the Government proposes to link farmers with new research on herbs and if so, the details thereof;*

Answer: This does not pertain to Botanical Survey of India.

d) *Whether other activities are being done for skill development in this area and if so, the details thereof;*

Answer: This does not pertain to Botanical Survey of India.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय / Yours sincerely,

(S.S. Dash)
(एस. एस. दाश / S. S. Dash)

वैज्ञानिक एफ / Scientist 'F'

(प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

Email**Technical Section BSI**

Re: Lok Sabha Admitted Unstarred Question No. +3122 for answer on 09.08.2024 asked by Shri Ajay Bhatt regarding "Production and Processing of Medicinal Plants" – reg.

From : Technical Section BSI Wed, Aug 07, 2024 06:58 PM
<tech@bsi.gov.in> 1 attachment

Subject : Re: Lok Sabha
Admitted Unstarred
Question No. +3122
for answer on
09.08.2024 asked by
Shri Ajay Bhatt
regarding "Production
and Processing of
Medicinal Plants" –
reg.

To : Dr. Priti Singh
<priti.singh@gov.in>,
sobsi2012
<sobsi2012@gmail.co
m>

Cc : Ashiho Asosii
<aamao@bsi.gov.in>,
Dr Sudhansu Sekhar
Dash
<:ssdash@bsi.gov.in>,
Ved Prakash Mishra
<mishra.vp@gov.in>,
kavita tyagi
<kavita.tyagi@nic.in>

Madam,

With reference to the above subject, please find an attachment on BSI reply for parliamentary question.

The attached file may please be perused.

Thanking You,

.....
Technical Section

Botanical Survey of India, HQ

Salt Lake City, Kolkata - 700 064

Emails: *tech@bsi.gov.in ; tech.bsi2021@gmail.com*

From: "Dr. Priti Singh" <priti.singh@gov.in>

To: "Technical Section BSI" <tech@bsi.gov.in>, "Dr Sudhansu Sekhar Dash" <ssdash@bsi.gov.in>, "Ashiho Asosii" <aamao@bsi.gov.in>

Cc: "Ved Prakash Mishra" <mishra.vp@gov.in>, "kavita tyagi" <kavita.tyagi@nic.in>

Sent: Tuesday, August 6, 2024 12:13:17 PM

Subject: Fwd: Lok Sabha Admitted Unstarred Question No. †3122 for answer on 09.08.2024 asked by Shri Ajay Bhatt regarding "Production and Processing of Medicinal Plants" – reg.

Sir,

Kindly refer to the trailing mail from MoA.

BSI is requested to provide inputs, if any, to MoA (kavita.tyagi@nic.in) directly.

Best Regards,

Dr. Priti Singh

Scientist 'D' (Joint Director)

Ministry of Environment, Forest & Climate Change

Government of India, New Delhi

Phone: 011-20819228

Intercom:5533

From: "Parliament Section" <parlsec-mef@nic.in>

To: "Ved Prakash Mishra" <mishra.vp@gov.in>, "Dr. Priti Singh" <priti.singh@gov.in>

Cc: "Mr Satyajit Mishra" <satyajit.mishra@nic.in>, "rakesh sharma67" <rakesh.sharma67@nic.in>, "VIKRAM SINGH Under Secretary Proc.II" <vikramsingh.rth@nic.in>, "Abhimanyu Kumar Sharma" <ak.sharma79@nic.in>, "kavita tyagi" <kavita.tyagi@nic.in>

Sent: Tuesday, August 6, 2024 12:08:06 PM

Subject: Fwd: Lok Sabha Admitted Unstarred Question No. †3122 for answer on 09.08.2024 asked by Shri Ajay Bhatt regarding "Production and Processing of Medicinal Plants" – reg.

From: "kavita tyagi" <kavita.tyagi@nic.in>

To: "Shubha Thakur" <sthakur@nic.in>, "pqdac.krishi" <pqdac.krishi@nic.in>, "SOMANATH AGASIMANI" <drsomanath.agasimani@gov.in>, "Raj Pal" <rpsingh.15863@gov.in>, "Ashish Malhotra" <ashish.malhotra@nic.in>, "A A SREEKANTH, Under Secretary (RC)" <aa.sreekanth@nic.in>, "Muslim.T.R" <muslim.tr@nic.in>, "GC/Parliament" <pqrd@nic.in>, "Krishna Kumar Dwivedi" <kkdwivedi@gov.in>, "A. Dhanalakshmi" <jsadmin.dbt@nic.in>, "Anju Bhalla" <anju_bhalla@nic.in>, "SECRETARY DST" <dstsec@nic.in>, "Satyajit Paul" <satyajit.paul@nic.in>, "Dr Kousthubha Upadhyaya" <adviser-ayush@gov.in>, "dcc ayush" <dcc.ayush@nic.in>, "SANGEETA A" <advisor-homeo-ayush@gov.in>, "Mukhtar Ahmad Qasmi" <mukhtar.qasmi@gov.in>, "Priya Ranjan"

<md@nhb.gov.in>, ccras@nic.in, "VIJAYALAKSHMI BHARADWAJ" <vijayalakshmi.bharadwaj40@gov.in>, "Dr. Kavita" <kavita.rathore@gov.in>, "Rabindra Prasad" <prasad.rabindra@gov.in>, "aism 25" <aism.25@gov.in>, midhaap@gmail.com, "Manoj Kumar" <manojias2008@nic.in>, midhaab@gmail.com, "KEDARNATH VERMA" <kn.verma@nic.in>, "Mrityunjaya Kumar Mishra" <mrityunjaya.m@nic.in>, "PANKAJ SHARMA" <pankaj.sharma83@nic.in>, "Dr. Tarun Bajaj" <directorbedf@apeda.gov.in>, "apeda head quarter" <headq@apeda.gov.in>, tarunbajaj@apeda.gov.in, "director dmapr" <director.dmapr@icar.gov.in>, "manish das" <manish.das@icar.gov.in>, "Parliament Section" <parlsec-mef@nic.in>, apmapboard@gmail.com, tarigondanarasim3@gmail.com, adokamo5@gmail.com, arunachalhorticulture@yahoo.in, tagetatatunge@yahoo.co.in, dee@aau.ac.in, biharayushsociety@gmail.com, cgvanoushadhiboard@yahoo.co.in, "Dy Conservator of Forests, Research Utilisation Div" <dcfru-forest.goa@nic.in>, gmpb@gujarat.gov.in, smpbgujarat@gmail.com, "ccf prodhr" <ccf_prodhr@yahoo.com>, "Vinay Singh" <ayur-hp@nic.in>, smpbhp@gmail.com, smpuismjk@gmail.com, mshmpbmed@gmail.com, manipursmpb@gmail.com, agsharma111@gmail.com, freedomtower@rediffmail.com, smpbmegh@gmail.com, "smpb mizoram" <smpb.mizoram@gmail.com>, "ayushdept mizoram" <ayushdept.mizoram@gmail.com>, smarathansiami5676@gmail.com, mmbointhung23@gmail.com, krultsurho@gmail.com, "nl brdm" <nl_brdm@yahoo.com>, nagalandsmpb@gmail.com, "tia smpb" <tia.smpb@gmail.com>, "Support DHOOdisha" <supportdho.od@nic.in>, ahotraining2016@gmail.com, cfextmohali@gmail.com, pccfpunjab@gmail.com, budgetbranchpb@gmail.com, pccfcomplex@gmail.com, "manoj subba44" <manoj.subba44@gmail.com>,

sikkimhorticulture@gmail.com, nmmptanhoda@gmail.com, tsmapb@gmail.com, ceompbtripura@gmail.com, amitdebbarma1972@gmail.com, ceosmpbuk@gmail.com, "director hrdi" <director_hrdi@yahoo.in>, directorhrdiuk@gmail.com, dirhorti@rediffmail.com, dirhorti@gmail.com, namuphorti@gmail.com, "dir medbd" <dir_medbd@wbhealth.gov.in>, wbsmpb@gmail.com, "Director Agriculture" <diragri@and.nic.in>, pmayushpdy@gmail.com, ismpdy@gmail.com, rfcfnorth@gmail.com, inchargeismhp@gmail.com, "100rabh nmpb" <100rabh.nmpb@gmail.com>, sheikhbilala@gmail.com, "rcfcdirector jbp" <rcfcdirector.jbp@gmail.com>, "rcfc sfri817" <rcfc_sfri817@rediffmail.com>, rfcfnmpb@jadavpuruniversity.in, rdrcfc@jadavpuruniversity.in, rfcfsouthern@gmail.com, "c konnathuchacko" <c.konnathuchacko@gmail.com>, "rcfc wr sppu" <rcfc.wr.sppu@gmail.com>, parimalsai@gmail.com, dnmokat@unipune.ac.in, ccfrwpani@gmail.com, "K. Ashok Kumar, DY.CF" <ceo-apmapb@ap.gov.in>, arunchalpradesh@gmail.com, arunachalundp@gmail.com, smpbitanagar@gmail.com, smpbassam@gmail.com, forestchandigarh@gmail.com, "qayum iitk" <qayum.iitk@gmail.com>, "cght mpb" <cght.mpb@gmail.com>, "rao jacs" <rao.jacs@gmail.com>, "medical and health Daman" <dmhs-daman-dd@nic.in>, "Chief Conservator of Forest" <ccf-dmn-dd@nic.in>, directorateofismh@gmail.com, smpbharyana@gmail.com, dgism786@gmail.com, "hlthdept fdi" <hlthdept.fdi@gmail.com>, rks6272@gmail.com, ceokampa@gmail.com, dhsladakh@gmail.com, myenvironment11@gmail.com, "Director Ayush" <dirayush@mp.gov.in>, mp-dismh@yahoo.com, psharma1967@gmail.com, "drpc sharma62" <drpc.sharma62@mp.gov.in>, commagricell@gmail.com, info@mahanhm.in, "ayushdirector man" <ayushdirector.man@gmail.com>,

smpbmizoram@gmail.com, "Prem Kumar Jha"
<premkumar.jha@nic.in>, smpborissa@gmail.com,
doctorsridharan@gmail.com, "rsmpboard jpr"
<rsmpboard.jpr@rajasthan.gov.in>,
nodalofficersmpbsikkim@gmail.com, tnsmpb@gmail.com,
sametiup@gmail.com, "AkLokendro"
<ak.lokendro@manipur.gov.in>

Cc: "Murugeswaran R" <dr.murugesh.nmpb@gov.in>,
"SunilDutt ResearchOfficer(MedicnialPlants/Agro)"
<romps.nmpb@gov.in>, "Jeetendra Kumar" <rompsagro-
nmpb@gov.in>, "Dr.Bidhan Mahajon" <dr.bidhan@gov.in>,
"CHINMAY RATH" <Chinmay.rath@gov.in>, "admn nmpb"
<admn.nmpb@gmail.com>, "Swati Tomar" <herbalgarden-
nmpb@govcontractor.in>, "Himanshu Dwivedi" <rd-
nmpb@govcontractor.in>, "Sidharth Tiwari" <conservation-
nmpb@govcontractor.in>, "Hasib Masoodi" <isdesk-
nmpb@govcontractor.in>

Sent: Monday, August 5, 2024 3:04:54 PM

Subject: Lok Sabha Admitted Unstarred Question No.
†3122 for answer on 09.08.2024 asked by Shri Ajay Bhatt
regarding "Production and Processing of Medicinal Plants" –
reg.

Sir/ Madam,

Please find attachment regarding Lok Sabha Admitted
Unstarred Question No. †3122 for answer on 09.08.2024
asked by Shri Ajay Bhatt regarding "Production and
Processing of Medicinal Plants". kindly provide information
till 06.08.2024 (11.00 AM).

With regards,

Dr. Kavita Tyagi,

Sr. Consultant,
National Medicinal Plants Board,
Ministry of Ayush



 **Parliamentary Question, BSI.pdf**
827 KB

Email

Technical Section BSI

Fwd: Lok Sabha Admitted Unstarred Question No. †3122 for answer on 09.08.2024 asked by Shri Ajay Bhatt regarding "Production and Processing of Medicinal Plants" – reg.

From : Dr. Priti Singh <priti.singh@gov.in>
Subject : Fwd: Lok Sabha Admitted Unstarred Question No. †3122 for answer on 09.08.2024 asked by Shri Ajay Bhatt regarding "Production and Processing of Medicinal Plants" – reg.

Tue, Aug 06, 2024 12:13 PM

1 attachment

Singh

To : Technical Section BSI
<tech@bsi.gov.in>, Dr Sudhansu Sekhar Dash <ssdash@bsi.gov.in>, Ashiho Asosii <aamao@bsi.gov.in>

Cc : Ved Prakash Mishra
<mishra.vp@gov.in>, kavita tyagi
<kavita.tyagi@nic.in>

Sir,

Kindly refer to the trailing mail from MoA.

BSI is requested to provide inputs, if any, to MoA (kavita.tyagi@nic.in) directly.

Best Regards,

Dr. Priti Singh

Scientist 'D' (Joint Director)

Ministry of Environment, Forest & Climate Change

Government of India, New Delhi

Phone: 011-20819228

Intercom:5533

TECHNICAL SECTION, OFFICE OF DIRECTOR, BSI, ...	
No.	T-763
Date	09.08.2024

From: "Parliament Section" <parlsec-mef@nic.in>

To: "Ved Prakash Mishra" <mishra.vp@gov.in>, "Dr. Priti Singh" <priti.singh@gov.in>

Cc: "Mr Satyajit Mishra" <satyajit.mishra@nic.in>, "rakesh sharma67" <rakesh.sharma67@nic.in>, "VIKRAM SINGH Under Secretary Proc.II" <vikramsingh.rth@nic.in>, "Abhimanyu Kumar Sharma" <ak.sharma79@nic.in>, "kavita tyagi" <kavita.tyagi@nic.in>

Sent: Tuesday, August 6, 2024 12:08:06 PM

Subject: Fwd: Lok Sabha Admitted Unstarred Question No. †3122 for

answer on 09.08.2024 asked by Shri Ajay Bhatt regarding "Production and Processing of Medicinal Plants" – reg.

From: "kavita tyagi" <kavita.tyagi@nic.in>

To: "Shubha Thakur" <sthakur@nic.in>, "pqdac.krishi" <pqdac.krishi@nic.in>, "SOMANATH AGASIMANI" <drsomanath.agasimani@gov.in>, "Raj Pal" <rpsingh.15863@gov.in>, "Ashish Malhotra" <ashish.malhotra@nic.in>, "A A SREEKANTH, Under Secretary (RC)" <aa.sreekanth@nic.in>, "Muslim.T.R" <muslim.tr@nic.in>, "GC/Parliament" <pqrd@nic.in>, "Krishna Kumar Dwivedi" <kkdwivedi@gov.in>, "A. Dhanalakshmi" <jsadmin.dbt@nic.in>, "Anju Bhalla" <anju_bhalla@nic.in>, "SECRETARY DST" <dstsec@nic.in>, "Satyajit Paul" <satyajit.paul@nic.in>, "Dr Kousthubha Upadhyaya" <adviser-ayush@gov.in>, "dcc ayush" <dcc.ayush@nic.in>, "SANGEETAA" <advisor-homeo-ayush@gov.in>, "Mukhtar Ahmad Qasmi" <mukhtar.qasmi@gov.in>, "Priya Ranjan" <md@nhb.gov.in>, ccras@nic.in, "VIJAYALAKSHMI BHARADWAJ" <vijayalakshmi.bharadwaj40@gov.in>, "Dr. Kavita" <kavita.rathore@gov.in>, "Rabindra Prasad" <prasad.rabindra@gov.in>, "aism 25" <aism.25@gov.in>, midhaap@gmail.com, "Manoj Kumar" <manojias2008@nic.in>, midhaab@gmail.com, "KEDARNATH VERMA" <kn.verma@nic.in>, "Mrityunjaya Kumar Mishra" <mrityunjaya.m@nic.in>, "PANKAJ SHARMA" <pankaj.sharma83@nic.in>, "Dr. Tarun Bajaj" <directorbedf@apeda.gov.in>, "apeda head quarter" <headq@apeda.gov.in>, tarunbajaj@apeda.gov.in, "director dmapr" <director.dmapr@icar.gov.in>, "manish das" <manish.das@icar.gov.in>, "Parliament Section" <parlsec-mef@nic.in>, apmapboard@gmail.com, tarigondanarasim3@gmail.com, adokamo5@gmail.com, arunachalhorticulture@yahoo.in, tagetatatunge@yahoo.co.in, dee@aaau.ac.in, biharayushsociety@gmail.com, cgvanoushadhiboard@yahoo.co.in, "Dy Conservator of Forests, Research Utilisation Div" <dcfru-forest.goa@nic.in>, gmpb@gujarat.gov.in, smpbgujarat@gmail.com, "ccf prodhr" <ccf_prodhr@yahoo.com>, "Vinay Singh" <ayur-hp@nic.in>, smpbhp@gmail.com, spmuismjk@gmail.com, mshmpbmed@gmail.com, manipursmpb@gmail.com, agsharma111@gmail.com, freedomtower@rediffmail.com, smpbmegh@gmail.com, "smpb mizoram" <smpb.mizoram@gmail.com>, "ayushdept mizoram" <ayushdept.mizoram@gmail.com>, smarathansiami5676@gmail.com, mmbointhung23@gmail.com, krultsurho@gmail.com, "nl brdm" <nl_brdm@yahoo.com>, nagalandsmpb@gmail.com, "tia smpb" <tia.smpb@gmail.com>, "Support DHO Odisha" <supportdho.od@nic.in>, ahotraining2016@gmail.com, cfextmohali@gmail.com, pccfpunjab@gmail.com, budgetbranchpb@gmail.com, pccfcomplex@gmail.com, "manoj subba44"

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Cc: "Murugeswaran R" <dr.murugesw.nmpb@gov.in>, "SunilDutt ResearchOfficer(MedicnialPlants/Agro)" <romps.nmpb@gov.in>, "Jeetendra Kumar" <rompsagro-nmpb@gov.in>, "Dr.Bidhan Mahajon" <dr.bidhan@gov.in>, "CHINMAY RATH" <Chinmay.rath@gov.in>, "admn nmpb" <admn.nmpb@gmail.com>, "Swati Tomar" <herbalgarden-nmpb@govcontractor.in>, "Himanshu Dwivedi" <rd-nmpb@govcontractor.in>, "Sidharth Tiwari" <conservation-nmpb@govcontractor.in>, "Hasib Masoodi" <isdesk-nmpb@govcontractor.in>

Sent: Monday, August 5, 2024 3:04:54 PM

Subject: Lok Sabha Admitted Unstarred Question No. †3122 for answer on 09.08.2024 asked by Shri Ajay Bhatt regarding "Production and Processing of Medicinal Plants" – reg.

Sir/ Madam,

Please find attachment regarding Lok Sabha Admitted Unstarred Question No. †3122 for answer on 09.08.2024 asked by Shri Ajay Bhatt regarding "Production and Processing of Medicinal Plants". kindly provide information till 06.08.2024 (11.00 AM).

With regards,

Dr. Kavita Tyagi,
Sr. Consultant,
National Medicinal Plants Board,
Ministry of Ayush



_ LS Q 3122 for 09.08.2024 reg..pdf
918 KB

F. No. H-11016/13/2024-25-NMPB-II
Government of India
Ministry of Ayush
National Medicinal Plants Board (NMPB)

1st & 2nd Floor, Annexe Building,
Near Indian Red Cross Society,
Red Cross Road, New Delhi – 110001
E-mail: kavita.tyagi@nic.in
Dated: 05th August, 2024

OFFICE MEMORANDUM

Subject: Lok Sabha Admitted Unstarred Question No. †3122 for answer on 09.08.2024 asked by Shri Ajay Bhatt regarding “Production and Processing of Medicinal Plants” – reg.

The undersigned is directed to refer to the above said Lok Sabha Admitted Unstarred Question No. †3122 for answer on 09.08.2024 reproduced hereunder:

- (a) whether the Government has launched any special scheme for the production and processing of herbs in Himalayan States including Uttarakhand;
- (b) if so, the details thereof;
- (c) whether the Government has made provision for imparting marketing and technological training to farmers under the said scheme and if so, the details thereof;
- (d) whether the Government proposes to link farmers with new research on herbs and if so, the details thereof; and
- (e) whether other activities are being done for skill development in this area and if so, the details thereof?

2. It is requested that part-wise reply/ information to the said question may kindly be furnished to the undersigned, in hard as well as soft copy (kavita.tyagi@nic.in) latest by 06.08.2024 (11.00 A.M).



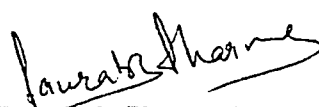
(Saurabh Sharma)

Manager (Marketing & Trade)

To

1. Smt. Shuba Thakur, Joint Secretary (Parliament), Ministry of Agriculture & Farmers Welfare, Krishi Bhavan, Dr. Rajendra Prasad Road, New Delhi, 110001 (Tel: 011-23383744/23386031 / 23386268 / 23382336, Email: sthakur@nic.in; pqdac.krishi@nic.in, drsomanath.agasimani@gov.in, rpsingh.15863@gov.in, ashish.malhotra@nic.in)
2. Joint Secretary, Ministry of Rural Development, Government of India, Krishi Bhavan, Dr. Rajendra Prasad Road, New Delhi – 110001 (Shri A. A. Sreekanth, US (GC/Parliament), Tele: 011-23070978, Email: aa.sreekanth@nic.in, Shri Muslim T. R., SO (GC/Parliament), Tel: 23782502, Email: muslim.tr@nic.in, pqrd@nic.in)
3. Shri Krishna Kumar Dwivedi, JS-I, Ministry of Skill Development & Entrepreneurship, Room No. 322, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001 (Ph.: 011-23465846, Email: kkdwivedi@gov.in)
4. Joint Secretary, Department of Biotechnology, Block No. - 2, CGO Complex, Lodhi Road, New Delhi-03, (Telefax: 011-24362982, Email: jsadmin.dbt@nic.in)

5. Joint Secretary, Department of Science & Technology, Technology Bhawan, New Mehrauli Road, New Delhi-16 (Email: anju_bhalla@nic.in, dstsec@nic.in, Tel: 2651 1439, 2656-7373, Fax: 2686-3847)
6. Shri Satyajit Paul, Deputy Director General, Ministry of Ayush, Ayush Bhawan, B Block, GPO Complex, INA, New Delhi - 110023 (Email: satyajit.paul@nic.in)
7. Dr. Kousthubha Upadhyaya, Adviser (Ay.), DCC Section, Drug Policy L&P Division, Ministry of AYUSH (Email: adviser-ayush@gov.in, Tel: 011-20815348); Dr. Raman Kaushik, DPS Section Mob: 09315629761, email: dec.ayush@nic.in)
8. Dr. Sangeeta A. Duggal, Adviser (II), Ministry of Ayush, Ayush Bhawan, B Block, GPO Complex, INA, New Delhi - 110023 Email: advisor-homeo-ayush@gov.in / Phone 011-24656914)
9. Dr. M.A. Qasmi, Adviser (Unani), Ministry of Ayush, Ayush Bhawan, B Block, GPO Complex, INA, New Delhi - 110023 (Email: mukhtar.qasmi@gov.in Phone 011-24651966)
10. Managing Director, National Horticulture Board, Ministry of Agriculture and Farmers Welfare, Government of India, 85, Institutional Area, Sector-18, Gurugram, 122015 (Haryana) (Tel: 0124-2342992, Email: md@nhb.gov.in)
11. Director General, CCRAS, Janak Puri, New Delhi (Tel: 011-28524457, Email: dg-ccras@nic.in)
12. Smt. Vijayalakshmi Bharadwaj, Director, Ayurveda & Sowa Rigpa (except NEIAH, NEIAFMR & RAV), Yoga & Naturopathy, Information, Education and Communication (IEC), M/o AYUSH, (E-mail: vijayalakshmi.bharadwaj40@gov.in, kavita.rathore@gov.in . Ph: 011-24651658
13. Director (Crops/Estt & Parliament.), Ministry of Agriculture & Farmers Welfare, Krishi Bhawan, Dr. Rajendra Prasad Road, New Delhi, 110001 (Tel: 011-23383744/ 23386031 / 23386268/23389831, Email: prasad.rabindra@gov.in, pqdac.krishi@nic.in, ashish.malhotra@nic.in, aism.25@gov.in)
14. Director, Mission for Integrated Development of Horticulture (MIDH), Ministry of Agriculture and Farmers Welfare, 248A, Krishi Bhawan, Dr. Rajendra Prasad Road, New Delhi, 110001 (Tel: 23382383, Email: midhaap@gmail.com, manojias2008@nic.in, midhaab@gmail.com, kn.verma@nic.in, mrityunjaya.m@nic.in, Tel: 011-23388795 / 23388474 / 23074238/23382383, Sh. Pankaj Sharma, M: 9968185207, Mail: pankaj.sharma83@nic.in)
15. Dr. Tarun Bajaj, Director, Agricultural & Processed Food Products Export Development Authority (APEDA), 3rd Floor, NCUI Building 3, Siri Institutional Area, August Kranti Marg, opp. Asiad Village, New Delhi, Delhi 110016 Phone: (Mob.) :- 09811299852 / 91-11-41486013, 26513204, 26513219, 26514572, 26526196, 98, 26534186, 26534870, 26850301, Email: directorbedf@apeda.gov.in, headq@apeda.gov.in, tarunbajaj@apeda.gov.in
16. Director, ICAR-Directorate of Medicinal & Aromatic Plants Research Institute of ICAR-DMAPR, Anand, Gujarat-387310 (Ph: 2692271602, Email: director.dmapr@icar.gov.in, manish.das@icar.gov.in)
17. Mr. Rajeev Mathur, Section Officer, Parliament section, Ministry of Environment, Forests and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi 03 (Email: parlsec-mef@nic.in Tel: 011-24695332)
18. CDN Section, Ministry of Ayush (Mail: peayush@gmail.com)
19. All desks of NMPB / SMPBs / SIIMs / RCFCs / Others


(Saurabh Sharma)

Manager (Marketing & Trade)

F. No. H-11016/13/2024-25-NMPB-II
Government of India
Ministry of Ayush
National Medicinal Plants Board (NMPB)

1st & 2nd Floor, Annexe Building,
Near Indian Red Cross Society,
Red Cross Road, New Delhi – 110001
E-mail: kavita.tyagi@nic.in
Dated: 05th August, 2024

OFFICE MEMORANDUM

Subject: Lok Sabha Admitted Unstarred Question No. †3122 for answer on 09.08.2024 asked by
Shri Ajay Bhatt regarding “Production and Processing of Medicinal Plants” – reg.

The undersigned is directed to refer to the above said Lok Sabha Admitted Unstarred Question
No. †3122 for answer on 09.08.2024 reproduced hereunder:

- (a) whether the Government has launched any special scheme for the production and processing of herbs in Himalayan States including Uttarakhand;
- (b) if so, the details thereof;
- (c) whether the Government has made provision for imparting marketing and technological training to farmers under the said scheme and if so, the details thereof;
- (d) whether the Government proposes to link farmers with new research on herbs and if so, the details thereof; and
- (e) whether other activities are being done for skill development in this area and if so, the details thereof?

It is requested that part-wise reply/ information to the said question may kindly be furnished to
undersigned, in hard as well as soft copy (kavita.tyagi@nic.in) latest by 06.08.2024 (11.00 A.M).



(Saurabh Sharma)

Manager (Marketing & Trade)

1. Smt. Shuba Thakur, Joint Secretary (Parliament), Ministry of Agriculture & Farmers Welfare, Krishi Bhavan, Dr. Rajendra Prasad Road, New Delhi-110001 (Tel: 011-23383744/23386031 / 23386268 / 23382336, Email: sthakur@nic.in; pqda@krishi@nic.in, drsomanath.agasimani@gov.in, rpsingh.15863@gov.in, ashish.malhotra@nic.in)
2. Joint Secretary, Ministry of Rural Development, Government of India, Krishi Bhavan, Dr. Rajendra Prasad Road, New Delhi – 110001 (Shri A. A. Sreekanth, US (GC/Parliament), Tele: 011-23070978, Email: aa.sreekanth@nic.in, Shri Muslim T. R., SO (GC/Parliament), Tel: 23782502, Email: muslim.tr@nic.in, pqrd@nic.in)
3. Shri Krishna Kumar Dwivedi, JS-I, Ministry of Skill Development & Entrepreneurship, Room No. 322, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001 (Ph.: 011-23465846, Email: kkdwivedi@gov.in)
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Technology Bhawan, New Mehrauli Road, New Delhi-16 (Email: anju_bhalla@nic.in, dstsec@nic.in, Tel: 2651 1439, 2656-7373, Fax: 2686-3847)

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14. Director, Mission for Integrated Development of Horticulture (MIDH), Ministry of Agriculture and Farmers Welfare, 248A, Krishi Bhawan, Dr. Rajendra Prasad Road, New Delhi, 110001 (Tel: 23382383, Email: midhaap@gmail.com, manojas2008@nic.in, midhaab@gmail.com, kn.verma@nic.in, mrityunjaya.m@nic.in, Tel: 011-23388795 / 23388474 / 23074238/23382383, Sh. Pankaj Sharma, M: 9968185207, Mail: pankaj.sharma83@nic.in)
15. Dr. Tarun Bajaj, Director, Agricultural & Processed Food Products Export Development Authority (APEDA), 3rd Floor, NCUI Building 3, Siri Institutional Area, August Kranti Marg, opp. Asiad Village, New Delhi, Delhi 110016 Phone: (Mob.) :- 09811299852 / 91-11-41186013, 26513204, 26513219, 26514572, 26526196 98, 26534186, 26534870, 26850301, E-mail: directorbedf@apeda.gov.in, headq@apeda.gov.in, tarunbajaj@apeda.gov.in
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17. Mr. Rajeev Mathur, Section Officer, Parliament section, Ministry of Environment, Forests and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi 03 (Email: parlsec-mef@nic.in Tel: 011-24695332)
18. CDN Section, Ministry of Ayush (Mail: peayush@gmail.com)
19. All desks of NMPB / SMPBs / SIMs / RCFCs / Others



(Saurabh Sharma)
Manager (Marketing & Trade)

भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

तृतीय एम. एस. ओ. भवन / 3RD MISO BUILDING

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साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI-286/1 (Parl.) / 2024 -Tech.

दिनांक/Date : 9th Dec. 2024

सेवा में/To

12805-2806

The Secretary to the Govt. of India,
Ministry of Environment, Forest & Climate Change
Indira Paryavaran Bhawan,
Jor Bagh Road, Aliganj
New Delhi-110 003

विषय / Sub: Lok Sabha Starred/Unstarred Question Diary No. 9880 for 17.12.2024 regarding
“Promotion of Invasive species under PMMSY” -reg.

महोदया/ Madam,

With reference to the email dated 06.12.2024 on the question ‘Promotion of Invasive species under PMMSY’ under Question Diary No. 9880, the undersigned is directed to furnish the following information for your kind perusal:

- a) Whether the government is aware of reports indicating that certain aquaculture species like red algae promoted under the Pradhan Mantri Matsya Samprada Yojana (PMMSY) are invasive, and their proliferation threatens marine ecosystems, including coral reefs;

Answer: As per available information, in Indian Coast region 5 Marine Macro Red Algal species (1. *Gelidiella acerosa* (Forssk.) Feldmann & Hamel; 2. *Gracilaria edulis* (S.G.Gmelin) P.C.Silva; 3. *Gracilaria dura* (C. Agardh) J. Agardh; 4. *Gracilaria salicornia* (C. Agardh) E.Y.Dawson and 5. *Kappaphycus alvarezii* (Doty) Doty Ex P.C Sliva are being cultivated. Invasive and non-invasive tendency of these marine macro algae is still an ideology of controversy. Data provisions to the invasive nature of algal cultivation are lacking the specific affected geographical locations and EIA (Environmental Impact Assessment) of the Indian coast.

- b) If so, the details of such invasive species, their impact on coral reefs and local marine biodiversity, and studies or evidence the ministry has considered before promoting these species;

Answer: Invasive and non-invasive tendency of *Kappaphycus alvarezii* (Doty) Doty Ex P.C Sliva is still an ideology of controversy. This species was acquired from Japan first by CSIR-CSMCRI in 1984 for production of kappa carrageenan after following necessary quarantine and introduction procedures for experimental research and cultivation (Mandal et al. 2010). Now the *Kappaphycus alvarezii* (Doty) Doty ex P.C Sliva is acclimatized in Indian coast. Earlier report of the researchers (Pereira & Verlecar, 2005, Chandrasekaran et al., 2008) highlights the impacts of *K. alvarezii* on coral reefs. However, some recent research findings by CMFRI, CSMCRI, CAS in Marine biology, Parangipettai, Annamalai University and NIO, Kochi are divulging the ecological significance and economic role of *K. alvarezii*. Since it propagates by vegetative reproduction and lack of sexual reproduction and absence of microscopic stage, it reveals the strong view on the non-invasive potential of *K. alvarezii* (Chandrasekaran et al., 2008, Tewari et al., 2006, Kamalakannan et al.

2014 & Kavale *et al.*, in 2016). Data provisions to the invasive nature of *K. alvarezii* are lacking the specific affected geographical locations and EIA (Environmental Impact Assessment) of the Gulf of Mannar. Recent experiment on the cultivation of *K. alvarezii* at the coastal regions of Maharashtra succeeded and proven the non-invasive nature of *K. alvarezii* (Kavale *et al.*, in 2016). Also, the factors influence to coral reefs bleaching were not included in earlier studies. Mandal *et al.* (2014) evidenced the occurrence of *K. alvarezii* on corals was confined to less than 0.0035% of the total coral reef area at Kurusadai Island.

c) The steps being taken to mitigate the environmental impact of such invasive species and ensure that aquaculture under the PMMSY is sustainable; and

Answer: Some of the important steps being taken to mitigate the environmental impact of such invasive species and ensure that aquaculture under the PMMSY is sustainable include the following:

- i. Formulate the competent authority to monitor the marine protected areas.
- ii. Conduct the periodical (monthly & seasonal wise) EIA for 2 – 3 years pertaining to the ecological factors.
- iii. Observation of microbes and macros community with coral reef species.
- iv. Observation of different taxa of the coral reef community present in Indian coast
- v. Select the alternative sites for the periodical observation and cultivation of *K.alvarezii*
- vi. Observation of benthic communities and their correlations with coral communities.
- vii. Find the factors influence to the coral reef diversity and *K.alvarezii* community
- viii. Implementation of Cage method of cultivation for *K.alvarezii*
- ix. Monitor the inflow and outflow of the water source with their hydrological parameters
- x. Implementation of alternate collection technique of *K.alvarezii* without conquer to the other coastal community.

d) Whether the government plans to issue revised guidelines or stricter criteria for species selection under PMMSY, and

Answer: This question does not come under the perview of Botanical Survey of India.

e) If so, the details there of ?

Answer: This question does not come under the perview of Botanical Survey of India.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय / Yours sincerely,

(सी.मुरुगन / C. Murugan)

वैज्ञानिक एफ/ Scientist 'F'

(कार्यालय अध्यक्ष / Head of Office)

Copt to: Dr. Shubham Gupta, Assistant Research Officer (Fisheries), Ministry of Fisheries, Animal Husbandary and Dairying, New Delhi - 110001

प्रेषित/DESPATCHED
Jaya
10/12/24

TECHNICAL SECTION
DISPATCHED
No. 62-63
Date 09.12.2024

Email**Technical Section BSI**

**Re: Urgent_Parliament
Matter_PAQ_LS_D_No_9880_input_reg.**

From : Technical Section BSI Mon, Dec 09, 2024 05:30 PM
<tech@bsi.gov.in> 2 attachments

Subject : Re: Urgent_Parliament
Matter_PAQ_LS_D_No
_9880_input_reg.

To : Shubham Gupta
<shubham.gupta12@do
of.gov.in>, sobsi2012
<sobsi2012@gmail.co
m>

Cc : Ashiho Asosii Mao
<hq@bsi.gov.in>,
ADMIN BSI
<admin@bsi.gov.in>,
Dr Sudhansu Sekhar
Dash
<ssdash@bsi.gov.in>,
Sudhir Kumar Yadav
<skyadav@bsi.gov.in>

Sir,

In reference to the subject mentioned above, Please find herewith inputs pertaining to BSI, for your kind perusal and necessary action.

Thanking You,

.....
Technical Section

Botanical Survey of India, HQ

Salt Lake City, Kolkata - 700 064

Emails: *tech@bsi.gov.in ; tech.bsi2021@gmail.com*

From: "Shubham Gupta" <shubham.gupta12@dof.gov.in>
To: "director cmfri" <director.cmfri@icar.gov.in>, "pmecell cmfri1" <pmecell.cmfri1@gmail.com>, "fisheries icar" <fisheries.icar@gmail.com>, "Ashiho Asosii Mao" <hq@bsi.gov.in>, "ADMIN BSI" <admin@bsi.gov.in>, "Technical Section BSI" <tech@bsi.gov.in>, "Neelesh Kumar Sah" <sahnk@cag.gov.in>, "Rajasree Ray" <rajasree.r@nic.in>, "Mr Tanmay Kumar" <tanmay.kumar-rj@gov.in>, "Mr Satyajit Mishra" <satyajit.mishra@nic.in>, "Rakesh sharma67" <Rakesh.sharma67@nic.in>
Cc: "Dr. K Mohammed Koya" <fdc-india@dof.gov.in>, "Nilesh Pawar" <nilesh.pawar85@dof.gov.in>, "Sudhansu Sekhar Mishra" <sudhansu.sm@gov.in>
Sent: Monday, December 9, 2024 4:38:31 PM
Subject: Re: Urgent_Parliament Matter_PAQ_LS_D_No_9880_input_reg.

Sir/ Ma'am,

With reference to trail email, It is requested to furnish inputs urgently.

With Regards,

शुभम गुप्ता /Shubham Gupta, M.F.Sc
सहायक अनुसंधान अधिकारी (मत्स्य) / Assistant Research Officer (Fisheries),
मत्स्य पालन विभाग / Department of Fisheries,
मत्स्य पालन, पशुपालन और डेयरी मंत्रालय / Ministry of Fisheries, Animal Husbandry and Dairying,
भारत सरकार /Government of India
चंद्रलोक भवन, पहली मंजिल / Chandralok Building, 1st Floor
36, जनपथ / 36, Janpath
नई दिल्ली / New Delhi-110001

From: "Shubham Gupta" <shubham.gupta12@dof.gov.in>
To: "director cmfri" <director.cmfri@icar.gov.in>, "pmecell cmfri1" <pmecell.cmfri1@gmail.com>, "fisheries icar" <fisheries.icar@gmail.com>, "Ashiho Asosii Mao" <hq@bsi.gov.in>, "ADMIN BSI" <admin@bsi.gov.in>,

*Dr. M. Palanisamy***Dr. M. Palanisamy**

Botanical survey of India

Central National Herbarium

Botanic Garden Post

Howrah-711 103

West Bengal, India

E-Mail : samy_bsi@yahoo.co.in

Cell. 09790544842

----- Forwarded message -----

From: Palanisamy <samy_bsi@yahoo.co.in>**To:** ADMIN BSI <admin@bsi.gov.in>**Sent:** Monday 9 December, 2024 at 01:16:39 pm IST**Subject:** Re: Urgent_Parliament Matter_PAQ_LS_D_No_9880_input_reg.**Sir,**

I am submitting herewith reply on Lok Sabha question starred/
unstarred Diary No.: 9880

Thanking You,

Yours Sincerely,

M.Palanisamy

Dr. M. Palanisamy

Botanical survey of India

Central National Herbarium

Botanic Garden Post

Howrah-711 103

West Bengal, India

E-Mail : samy_bsi@yahoo.co.in

Cell. 09790544842

**Replies to provisionally admitted Lok Sabha Starred / Unstarred question No. 9880
for 17.12.2024 by Botanical Survey of India:**

PROVISIONALLY ADMITTED Starred/Unstarred QUESTION FOR THE LOK SABHA

(a) whether the government is aware of reports indicating that certain aquaculture species like red algae promoted under the Pradhan Mantri Matsya Sampada Yojana (PMMSY) are invasive, and their proliferation threatens marine ecosystems, including coral reefs;

Answer: In Indian Coast region 5 Marine Macro Red Algal species (i. *Gelidiella acerosa* (Forssk.) Feldmann & Hamel; ii. *Gracilaria edulis* (S.G.Gmelin) P.C.Silva; iii. *Gracilaria dura* (C. Agardh) J. Agardh; iv. *Gracilaria salicornia* (C. Agardh) E.Y.Dawson; v. *Kappaphycus alvarezii* (Doty) Doty Ex P.C Sliva are being cultivating. Invasive and non-invasive tendency and nature is still an ideology of controversy. Data provisions to the invasive nature of algal cultivation are lacking the specific affected geographical locations and EIA (Environmental Impact Assessment) of the Indian coast.

(b) if so, the details of such invasive species, their impact on coral reefs and local marine biodiversity, and studies or evidence the ministry has considered before promoting these species;

Answer: Invasive and non-invasive tendency and nature of *Kappaphycus alvarezii* is still an ideology of controversy. But now the *Kappaphycus alvarezii* (Doty) Doty Ex P.C Sliva species habituated in Indian coast. Earlier report of the researchers (Pereira & Verlecar, 2005, Chandrasekaran et al., 2008) highlights the impacts of *K. alvarezii* on coral reefs. However, some recent research findings by CMFRI, CSMCRI, CAS in Marine biology, Parangipettai, Annamalai University and NIO are divulging the ecological significance and economic role of *K. alvarezii*. Since they propagate by vegetative reproduction and lack of sexually reproducible individuals and absence of microscopic stage, it reveals the strong hope on the noninvasive potential of *K. alvarezii* (Chandrasekaran et al., 2008, Tewari et al., 2006, Kamalakannan et al. 2014 & Kavale et al., in 2016). Data provisions to the invasive nature of *K. alvarezii* are lacking the specific affected geographical locations and EIA (Environmental Impact Assessment) of the Gulf of Mannar. Further, Kamalakannan et al. (2014) opined the unscientific removal of *K. alvarezii* by Forest department & coastal community people may leads to the extinction of coral reefs. Recent experiment on the cultivation of *K. alvarezii* at the coastal regions of Maharashtra succeeded and proven the non-invasive nature of *K. alvarezii* (Kavale et al., in 2016) Also, the factors influence to coral reefs bleaching were not included in earlier studies. Mandal et al. (2014) evidenced the occurrence of *K. alvarezii* on corals was confined to less than 0.0035% of the total coral reef area at Kurusadai Island.

(c) the steps being taken to mitigate the environmental impact of such invasive species and ensure that aquaculture under the PMMSY is sustainable; and

Answer:

- i. Formulate the competent authority to monitor the marine protected areas.
- ii. Conduct the periodical (monthly & seasonal wise) EIA for 2 – 3 years pertaining to the ecological factors.
- iii. Observation of microbes and macros community with coral reef species.
- iv. Observation of different taxa of the coral reef community present in Indian coast
- v. Select the alternative sites for the periodical observation and cultivation of *K.alvarezii*
- vi. Observation of benthic communities and their correlations with coral communities.

- vii. Find the factors influence to the coral reef diversity & *K.alvarezii* community
- viii. Implement of Cage method of cultivation for *K.alvarezii*
- ix. Monitor the inflow and outflow of the water source with their hydrological parameters
- x. Implementation of alternate collection technique of *K.alvarezii* without conquer to the other coastal community.

(d) whether the government plans to issue revised guidelines or stricter criteria for species selection under PMMSY, and

Answer: Yes, selected 5 Marine Macro Red Algal species namely: i. *Gelidiella acerosa* (Forssk.) Feldmann & Hamel; ii. *Gracilaria edulis* (S.G.Gmelin) P.C.Silva; iii. *Gracilaria dura* (C. Agardh) J. Agardh; iv. *Gracilaria salicornia* (C. Agardh) E.Y.Dawson; v. *Kappaphycus alvarezii* (Doty) Doty Ex P.C Sliva

(e) if so, the details thereof?

Answer: The selected red algae are habituated in Indian coast.

डॉ सुदीप्त कुमार दास / Dr Sudipta Kumar Das

वैज्ञानिक 'ई' / Scientist 'E'

अंडमान और निकोबार क्षेत्रीय केंद्र / Andaman and Nicobar
Regional Centre

भारतीय वनस्पति सर्वेक्षण / Botanical Survey of India

हड्डो, श्री विजय पुरम - 744 102 / Haddo, Sri Vijaya Puram (Port
Blair) - 744 102

अंडमान व नोकोबार द्वीप समूह / Andaman and Nicobar Islands

Mobile: +91-7584024854

[Researchgate](#) I [Google Scholar](#)

 **Compliance to the Lok Sabha Question.docx**
20 KB

From : sudiptaalgae@gmail.co Mon, Dec 09, 2024 11:28 AM
m 1 attachment

Subject : Re: Urgent_Parliament
Matter_PAQ_LS_D_No
_9880_input_reg.

To : Technical Section BSI
<tech@bsi.gov.in>

Cc : bsianrc1972@gmail.co
m, Ashiho Asosii
<aamao@bsi.gov.in>,
ssdash2002@gmail.co
m, Sudhir Kumar
Yadav
<skyadav@bsi.gov.in>

Sir,

I am attaching the compliance to the parliamentary query,
for your kind perusal and necessary action.

Yours faithfully,
Sudipta Kumar Das

On Fri, Dec 6, 2024 at 6:41 PM Technical Section BSI
<tech@bsi.gov.in> wrote:

Sir,

In reference to the subject mentioned above, I am directed to forward the trailing mail on parliamentary questions.

Necessary inputs on these questions may please be furnished by 9.12.2024 -11 am - positively.

This may be treated as urgent please.

Thanking You,
With regards,
Sudhir Yadav
Botanist, HQ

.....
Technical Section

Botanical Survey of India, HQ

Salt Lake City, Kolkata - 700 064

Emails: tech@bsi.gov.in ; tech.bsi2021@gmail.com

From: "Shubham Gupta"

<shubham.gupta12@dof.gov.in>

To: "director cmfri" <director.cmfri@icar.gov.in>, "pmecell cmfri1" <pmecell.cmfri1@gmail.com>, "fisheries icar" <fisheries.icar@gmail.com>, "Ashiho Asosii Mao" <hq@bsi.gov.in>, "ADMIN BSI" <admin@bsi.gov.in>, "Technical Section BSI" <tech@bsi.gov.in>, "Neelesh Kumar Sah" <sahnk@cag.gov.in>, "Rajasree Ray" <rajasree.r@nic.in>, "Mr Tanmay Kumar"

Compliance to the Lok Sabha Question Starred /Unstarred Diary No. 9880 for 17.12.2024 :

(a) Is there any seaweed species promoted under the Pradhan Mantri Matsya Sampada Yojana (PMMSY) are invasive, and their proliferation threatens marine ecosystems, including coral reefs;

Under PMMSY, cultivation of *Gracilaria* sp. and *Kappaphycus alvarezii* is promoted as per PMMSY Operational Guidelines, 2020. Cultivation of *K. alvarezii* is found to be invasive and harm ecosystem especially Coral Reefs.

K. alvarezii is ranked 5th among the world's most cultivated macroalgae. A native to the Philippines, *K. alvarezii* has been introduced in more than 30 countries for commercial cultivation. In many countries, *K. alvarezii* has been reported to invade areas outside the cultivation sites, for which it has been termed as "a destructive invasive species" and "a serious danger to coral reefs" by the Global Invasive Species Database (GISD) of the International Union for Conservation Network (GISD 2022).

(b) If so, the details of such invasive species, their impact on coral reefs and local marine biodiversity, and studies or evidence the ministry has considered before promoting these species;

K. alvarezii is native species of Philippines and was acquired from Japan first by CSIR-CSMCRI in 1984 for production of kappa carrageenan after following necessary quarantine and introduction procedures for experimental research and cultivation (Mandal et al. 2010). First it was germinated in lab, and then introduced in sea at Mandapam coast, Tamil Nadu following the guidelines of Food and Agriculture Organization (FAO). From 2000 onwards it is being cultivated by self-help groups at Mandapam coast.

K. alvarezii was observed to overgrow live corals and kill them eventually at the affected sites. The coral *Acropora* branching morphotype was found to be the most affected by *K. alvarezii* (Arasamuthu et al. 2023). Many further studies elaborated the invasiveness and encroachment of local marine habitats by *K. alvarezii*. They also emphasized on the mortality caused by this alga to the existing marine life (Kamalakaran et al. 2014). It's cultivation can promote growth of diatoms and cyanobacteria and decline the growth of dinoflagellates (Rajaram & Rameshkumar, 2019), causing nutritional imbalance and inhibit macro and meiofauna to grow (Rameshkumar & Rajaram 2017). However, a recent study in the islands of the Gulf of Mannar confirmed that commercial farming of *K. alvarezii* did not affect the native seaweeds diversity (Veeragurunathan et al. 2021).

Another such invasive one is the brown alga, *Turbinaria*, which can be termed as an opportunistic invader. In Gulf of Mannar, *Turbinaria ornata*, *T. decurrens* and *T. conoides* were

found overgrowing dead reef areas and by taking the advantage of dead corals for substrata, thereby restrict the settlement of coral polyps (Ramesh et al. 2019).

Ramesh et al. (2023) have also encountered overwhelming growth of six seaweed species, *Caulerpa racemosa*, *C. serrulata*, *C. sertularioides*, *C. taxifolia*, *C. peltata*, and *Halimeda opuntia* on the reef flat.

Arasamuthu, A., Laju, R.L., Diraviya, R.K., Ashok Kumar, T.K., Leewis, R.J. & Patterson, E.J.K. 2023. Invasive red alga *Kappaphycus alvarezii* on the reefs of the Gulf of Mannar, India – a persistent threat to the corals. *BioInvasions Records* 12: 151–166.

Kamalakaran, B., Jeevamani, J.J.J., Nagendran, N.A., Pandiaraja, D. & Chandrasekaran, S. 2014. Impact of removal of invasive species *Kappaphycus alvarezii* from coral reef ecosystem in Gulf of Mannar, India. *Current Science* 106: 1401–1408.

Mandal, S.K., Mantri, V.A., Haldar, S., Eswaran, K. & Ganesan, M. 2010. Invasion potential of *Kappaphycus alvarezii* on corals at Krusadai Island, Gulf of Mannar, India. *Algae* 25: 205–216.

Rajaram, R. & Rameshkumar, S. 2019. Effects of different culture periods of commercial invasive red alga *Kappaphycus alvarezii* (Doty) Doty on plankton community structures in tropical marine environment, Southeast coast of India. *Regional Studies in Marine Science* 32: 100906.

Ramesh, C., Koushik, S., Shunmugaraj, T. & Murthy, M.V.R. 2019. Bioinvasive seaweed genus, *Turbinaria* in coral reefs of Gulf of Mannar. *Journal of Life Sciences Research* 6: 1–4.

Ramesh, C., Koushik, S., Shunmugaraj, T. & Murthy, M.V.R. 2023. Occurrence of opportunistic invasive macroalgal genus *Caulerpa* and *Halimeda opuntia* in coral reefs of Gulf of Mannar. *Journal of Threatened Taxa* 15: 22883–22888.

Rameshkumar, S. & Rajaram, R. 2017. Experimental cultivation of invasive seaweed *Kappaphycus alvarezii* (Doty) Doty with assessment of macro and meiobenthos diversity from Tuticorin coast, Southeast coast of India. *Regional Studies in Marine Science* 9: 117–125.

Veeragurunathan, V., Mantri, V.A., Malar vizhi, J. & Eswaran, K. 2021. Influence of commercial farming of *Kappaphycus alvarezii* (Rhodophyta) on native seaweeds of Gulf of Mannar, India: Evidence for policy and management recommendation. *Journal of Coastal Conservation* 25: 51.

(c) The steps being taken to mitigate the environmental impact of such invasive species and ensure that aquaculture under the PMMSY is sustainable; and

After observing the situation, Government of Tamil Nadu issued an order to terminate *K. alvarezii* cultivation near ecosensitive zones of Gulf of Mannar and Palk Bay. Since 2010, Tamil Nadu Forest Department is also removing *K. alvarezii* manually and at some extent they are getting successful in their deed (Arasamuthu et al. 2023) but the process is slow to redeem coral reef area again. It is suggested that other native macroalgae should be recommended for commercial cultivation like *Hypnea musciformis*, *Sacconema filiforme*, *Gelidiella acerosa* and *Gracilaria edulis*.

Arasamuthu, A., Laju, R.L., Diraviya, R.K., Ashok Kumar, T.K., Leewis, R.J. & Patterson, E.J.K. 2023. Invasive red alga *Kappaphycus alvarezii* on the reefs of the Gulf of Mannar, India – a persistent threat to the corals. *BioInvasions Records* 12: 151–166.

(d) Whether the government plans to issue revised guidelines or stricter criteria for species selection under PMMSY, and

(e) If so, the details thereof ?

Email

Technical Section BSI



**Fwd: Urgent_Parliament
Matter_PAQ_LS_D_No_9880_input_reg.**

From : Technical Section BSI Fri, Dec 06, 2024 06:41 PM
<tech@bsi.gov.in>

Subject : Fwd: Urgent_Parliament
Matter_PAQ_LS_D_No_9
880_input_reg.

To : Mookkan Palanisamy
<palanimookkan@gmail.
com>, BSI CNH
<calherbarium@yahoo.c
o.in>, sudiptaalga
<sudiptaalga@gmail.co
m>, BSI ANRC
<bsianrc1972@gmail.co
m>

Cc : Ashiho Asosii
<aamao@bsi.gov.in>,
ssdash2002
<:ssdash2002@gmail.co
m>, Sudhir Kumar
Yadav
<skyadav@bsi.gov.in>

Cayan

PLS- input

Sudhir

9/12/2024

Sir,

In reference to the subject mentioned above, I am directed to forward the trailing mail on parliamentary questions.

Necessary inputs on these questions may please be furnished by 9.12.2024 -11 am - positively.

This may be treated as urgent please.

Thanking You,
With regards,
Sudhir Yadav
Botanist, HQ

.....
Technical Section

Botanical Survey of India, HQ
Salt Lake City, Kolkata - 700 064

Emails: *tech@bsi.gov.in ; tech.bsi2021@gmail.com*

From: "Shubham Gupta" <shubham.gupta12@dof.gov.in>
To: "director cmfri" <director.cmfri@icar.gov.in>, "pmecell cmfri1" <pmecell.cmfri1@gmail.com>, "fisheries icar" <fisheries.icar@gmail.com>, "Ashiho Asosii Mao" <hq@bsi.gov.in>, "ADMIN BSI" <admin@bsi.gov.in>, "Technical Section BSI" <tech@bsi.gov.in>, "Neelesh Kumar Sah" <sahnk@cag.gov.in>, "Rajasree Ray" <rajasree.r@nic.in>, "Mr Tanmay Kumar" <tanmay.kumar-rj@gov.in>, "Mr Satyajit Mishra" <satyajit.mishra@nic.in>, "Rakesh sharma67" <Rakesh.sharma67@nic.in>
Cc: "Dr. K Mohammed Koya" <fdc-india@dof.gov.in>, "Nilesh Pawar" <nilesh.pawar85@dof.gov.in>, "Sudhansu Sekhar Mishra" <sudhansu.sm@gov.in>
Sent: Friday, December 6, 2024 4:59:08 PM
Subject: Urgent_Parliament
Matter_PAQ_LS_D_No_9880_input_reg.

PROVISI
ONALLY
ADMITT
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Starred/
Unstarre
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QUESTI
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THE LO

Sir/ Madam,

I am directed to forward provisionally admitted Lok Sabha Question Starred /Unstarred **Diary No. 9880** for **17.12.2024** regarding **Promotion of Invasive Species Under PMMSY**. It is requested to furnish inputs to the below said provisionally admitted Lok Sabha question immediately by return mail (Email: nilesh.pawar85@dof.gov.in / sudhansu.sm@gov.in) to this ministry by **09/12/2024 (12:00 PM)** for framing the suitable reply.

Lok Sabha Question Starred /Unstarred Diary No. 9880 for 17.12.2024 :

- (a) whether the government is aware of reports indicating that certain aquaculture species like red algae promoted under the Pradhan Mantri Matsya Sampada Yojana (PMMSY) are invasive, and their proliferation threatens marine ecosystems, including coral reefs;
- (b) if so, the details of such invasive species, their impact on coral reefs and local marine biodiversity, and studies or evidence the ministry has considered before promoting these species;
- (c) the steps being taken to mitigate the environmental impact of such invasive species and ensure that aquaculture under the PMMSY is sustainable; and
- (d) whether the government plans to issue revised guidelines or stricter criteria for species selection under PMMSY, and
- (e) if so, the details thereof?.

With Regards



शुभम गुप्ता / Shubham Gupta, M.F.Sc
सहायक अनुसंधान अधिकारी (मत्स्य) / Assistant Research Officer
(Fisheries),
मत्स्य पालन विभाग / Department of Fisheries,
मत्स्य पालन, पशुपालन और डेयरी मंत्रालय / Ministry of Fisheries,
Animal Husbandry and Dairying,
भारत सरकार / Government of India
चंद्रलोक भवन, पहली मंजिल / Chandralok Building, 1st Floor
36, जनपथ / 36, Janpath
नई दिल्ली / New Delhi-110001
फोन नं/ Phone No.....
मोबाइल नंबर/ Mobile- +8299032962
Alternate Email: shubham.gupta12@dof.gov.in



From : Shubham Gupta
<shubham.gupta12@do
f.gov.in>

Fri, Dec 06, 2024 04:59 PM

Subject : Urgent_Parliament
Matter_PAQ_LS_D_No_9
880_input_reg.

To : director cmfri
<director.cmfri@icar.gov.
in>, pmecell cmfri1

<pmecell.cmfri1@gmail.com>, fisheries icar
<fisheries.icar@gmail.com>, Ashiho Asosii Mao
<hq@bsi.gov.in>, ADMIN BSI
<admin@bsi.gov.in>, Technical Section BSI
<tech@bsi.gov.in>, Neelesh Kumar Sah
<sahnk@cag.gov.in>, Rajasree Ray
<rajasree.r@nic.in>, Mr Tanmay Kumar
<tanmay.kumar-rj@gov.in>, Mr Satyajit Mishra
<satyajit.mishra@nic.in>, Rakesh sharma67
<Rakesh.sharma67@nic.in>

Cc : Dr. K Mohammed Koya
<fdc-india@dof.gov.in>, Nilesh Pawar
<nilesh.pawar85@dof.gov.in>, Sudhansu
Sekhar Mishra
<sudhansu.sm@gov.in>

PROVISONALLY ADMITTED
Starred/Unstarred
QUESTION FOR THE LO

Sir/ Madam,

I am directed to forward provisionally admitted Lok Sabha Question Starred /Unstarred **Diary No. 9880** for **17.12.2024** regarding **Promotion of Invasive Species Under PMMSY**. It is requested to furnish inputs to the below said provisionally admitted Lok Sabha question immediately by return mail (Email: nilesh.pawar85@dof.gov.in / sudhansu.sm@gov.in) to this ministry by **09/12/2024 (12:00 PM)** for framing the suitable reply.

Lok Sabha Question Starred /Unstarred Diary No. 9880 for 17.12.2024 :

- (a) whether the government is aware of reports indicating that certain aquaculture species like red algae promoted under the Pradhan Mantri Matsya Sampada Yojana (PMMSY) are invasive, and their proliferation threatens marine ecosystems, including coral reefs;
- (b) if so, the details of such invasive species, their impact on coral reefs and local marine biodiversity, and studies or evidence the ministry has considered before promoting these species;
- (c) the steps being taken to mitigate the environmental impact of such invasive species and ensure that aquaculture under the PMMSY is sustainable; and
- (d) whether the government plans to issue revised guidelines or stricter criteria for species selection under PMMSY, and
- (e) if so, the details thereof?.

With Regards

शुभम गुप्ता / Shubham Gupta, M.F.Sc
सहायक अनुसंधान अधिकारी (मत्स्य) / Assistant Research Officer
(Fisheries),
मत्स्य पालन विभाग / Department of Fisheries,
मत्स्य पालन, पशुपालन और डेयरी मंत्रालय / Ministry of Fisheries,
Animal Husbandry and Dairying,
भारत सरकार / Government of India
चंद्रलोक भवन, पहली मंजिल / Chandralok Building, 1st Floor
36, जनपथ / 36, Janpath
नई दिल्ली / New Delhi-110001
फोन नं/ Phone No.....
मोबाइल नंबर/ Mobile- +8299032962
Alternate Email:shubham.gupta12@dof.gov.in



तकनीकी अनुभाग / Technical Section
भारतीयवनस्पतिसर्वेक्षण/ Botanical Survey of India,
मुख्यालय, कोलकाता/ Headquarters, Kolkata
कार्यालयटिप्पणी/OFFICE NOTE

फाइलसंख्या/File No.: BSI-286/1 (Parl.)/2024/Tech.

दिनांक/Date : 13.03.2025

विषय/Sub: Provisionally admitted Rajya Sabha question diary no. 5921 to be answered on 20.03.2025 -reg.

With reference to the above mentioned subject a Communication was received by this office through an email dated 12.03.2025 from Sri Achuta Nand Shukla (Ph.D.), Additional Director/Scientist-'E', CS-III (Biodiversity Division), MoEF&CC, New Delhi in connection to Rajya Sabha Question Diary No. 5921 for 20.03.2025. In this regard, they have requested this office to provide information on the following :

- Whether Government has taken any steps to protect Bio diversity and Marine habitats in the country with particular reference to Tamil Nadu;
- If so the details thereof and the funds allocated in the last 5 years, Year-wise and State-wise;
- The effective measures taken by the government to curb the prevailing issues and problems pertaining to protection and conservation of bio-diversity and Marine habitats in the country: and
- Whether the government has signed any agreements with foreign countries and international organisations dealing with Environment and Climate change?

कृपया अवलोकन और आगे के निर्देशों के लिए प्रस्तुत है / Submitted for kind perusal and further instructions please.

Buyon
13.03.25

Botanist (Technical Section) Sir please

Based on the information available at present, and the inputs received from the Scientists of other Regional Centres (Dr. M. Palanisamy, Sr E, CNH, and Dr. K.A. Sugana, Sr E, ~~SRH~~ SRC, Coimbatore), the draft reply has been prepared, which may please be perused and approved for submission to the Ministry.

PTD

Submitted for approval pls.

Guduru
13/3/2025

Scientist & Incharge, Tel. PS.

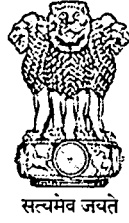
May be approved for onward
Submission to Ministry.

/Guduru
13/3/2025

D/BST

Approved

/Anirudh
13/03/2025



भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING

पाँचवाँ और छठा तल / 5TH & 6TH FLOOR

डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I

साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइलसंख्या/File No.: BSI-286/1 (Parl.)/2024/Tech. / 706

दिनांक/Date : 13th March, 2025

सेवामें / To

The Secretary

Ministry of Environment, Forest and Climate Change

Indira Paryavaran Bhawan, Jor Bagh Road

New Delhi - 110003

(Kind attention: Dr. A.N. Shukla, Scientist E, MoEF&CC, New Delhi)

Subject: Rajya Sabha Question- Diary no. 5921 - reg.

महोदय/ Sir,

With reference to your email received on 12.03.2025 regarding **Rajya Sabha Question- Diary no. 5921** for answer on 20.03.2025, I am directed to furnish herewith the following information for your kind perusal and necessary action as follows:

Question (a) whether the government has taken any steps to protect biodiversity and Marine habitats in the country with particular reference to Tamil Nadu.

Answer: Yes. The government of India and other state governments have taken various steps to protect the biodiversity and Marine habitats, including establishing protected areas, enacting legislation, and implementing conservation programs, with specific examples in Tamil Nadu including the Gulf of Mannar Marine National Park and Biosphere Reserve. Through MEE program (Management Effectiveness Evaluation) assigning the protected areas. It is used as a tool used to assess how well protected areas are being managed and their effectiveness in conserving flora and fauna.

Besides, some of the important steps taken by the Government to biodiversity of the country include survey, inventorization, taxonomic validation and threat assessment of floral and faunal resources; assessment of the forest cover to develop an accurate database for planning and monitoring; establishment of Protected Area Network of National Parks, Wildlife Sanctuaries, Conservation and Community Reserves; designating Biosphere Reserves for conservation of representative ecosystems; undertaking of species oriented conservation programmes; *ex-situ* conservation of plants etc.

Question (b) if so, the details thereof and the funds allocated in the last 5 years. Year -wise and state wise.

Answer: The Union Government provides usually financial assistance to States and Union Territories under Centrally Sponsored Schemes such as Integrated Development of Wildlife Habitat; Project Tiger, and Project Elephant for better protection and conservation of wildlife and their habitat; and Identification of Forest Management Scheme towards protection and management of forests. The Government supports conservation of some prioritized/threatened medicinal plants harboured in specially designated Medicinal Plants Conservation Areas (MPCAs) that are primarily forested areas.

- The National Afforestation & Eco-development Board of the Ministry promotes afforestation, tree planting, ecological restoration, and eco-development activities in the country, with special attention to degraded areas as well as ecologically fragile areas.

However, with reference to BSI, it is pertinent to mention that BSI undertakes survey and explorations through its *inhouse Annual Research Programmes* (ARPs). No. separate fund is allocated for these ARPs.

1. Besides, Expenditure Statement for Reinvestigation on The Flora of Gulf of Mannar Biosphere Reserve after Tsunami is as follows:

	Amount Rupees. in
Sanctioned amount 2018-2021	8,00,000/-
Released amount 2018-2021	6,95,000/-
Total Expenditure	6,94,560/-
Amount surrendered	440/-

2. Expenditure Statement for Integrated Management Plan of Agasthyamala Biosphere Reserve

Amount of Rs. 97.112 Lakhs has been sanctioned for the 1st year (2022-23) on 60:40 basis and an amount of Rs. 24.278 Lakhs (Central Share Rs.14.92 Lakhs + State Share Rs. 9.95 Lakhs) has been released during the year 2023-24 towards the Implementation of Pilot Project on Five year Integrated Management Plan of Biosphere Reserve in CSS-ABR (TN Part) vide Government of India letter F.No. 09/ 03/ 2021-CS/BR, dated 20.09.2023 and G.O.D No. 197, Environment, Climate Change and Forests (FR.5) Dept, dated 16.10.2023

	Amount Rupees. in
Sanctioned amount for the year 2022-23 (1 st year)	97,11,200/-
1st instalment amount released during the year 2023-24	24,27,800/-
Expenditure	24,27,775/-
Amount surrendered	25/-

Question (c) the effective measures taken by the government to curb the prevailing issues and problems pertaining to protection and conservation of bio-diversity and Marine habitats in the country.

Answer: The government has implemented various measures, including legal frameworks, conservation programs, and research initiatives, to address biodiversity and marine habitat protection, with a focus on sustainable management and ecosystem conservation. The Wild Life (Protection) Act 1972 and the Biological Diversity Act 2002 have also been enacted with the aim to conserve biological resources of the country and regulation of access to these resources to ensure equitable sharing of



Sudhir Kumar Yadav <skyadavbsic@gmail.com>

Sayan
12/31/2025

Fwd: Provisionally admitted Rajya Sabha question diary no. 5921 to be answered on 20/03/2025-reg.

1 message

Technical Section BSI <tech@bsi.gov.in>

Wed, Mar 12, 2025 at 3:24 PM

To: Dr Sudhansu Sekhar Dash <ssdash@bsi.gov.in>, ssdash2002 <ssdash2002@gmail.com>, Sudhir Yadav <skyadav@bsi.gov.in>, Sudhir Yadav <skyadavbsic@gmail.com>

Sud it
to -
Palanikumar
Sundar
Srikanth

===== Forwarded message =====

From: Achuta Nand <achuta.shukla@gov.in>

To: "Technical BSI" <tech@bsi.gov.in>, "Ashiho Asosii" <aamao@bsi.gov.in>, "DHRITI BANERJEE" <director@zsi.gov.in>, "dwii" <dwii@wii.gov.in>, "Director NCSCM" <director@ncscm.res.in>, "Dr G V M Gupta" <director@cmlre.gov.in>, "dg" <dg@icfre.org>, "SUNDEEP -" <sundeep.cpcb@nic.in>, "Dr Ravichandran" <secretary@moes.gov.in>, "vijaykumar66" <vijay.kumar66@nic.in>, "forsec" <forsec@tn.gov.in>, "tamilnaduforestminister" <tamilnaduforestminister@gmail.com>, "secytnbb" <secy.tnbb@tn.gov.in>, "Prashant Srivastava" <srivastava.pks@gov.in>, "vchaudhary" <v.chaudhary@nic.in>, "B. Balaji" <secretary@nba.nic.in>
Cc: "chairman" <chairman@nba.nic.in>, "RAGHU KUMAR KODALI" <kodali.rk@gov.in>, "arvinbhatagat-upsc" <arvinbhatagat-upsc@gov.in>, "Kaveri Choudhary" <kaveri.choudhary@gov.in>
Date: Wed, 12 Mar 2025 12:03:32 +0530
Subject: Provisionally admitted Rajya Sabha question diary no. 5921 to be answered on 20/03/2025-reg.

===== Forwarded message =====

Madam/Sir,

This relates to a provisionally admitted Rajya Sabha question diary no. 5921 to be answered on 20/03/2025.

- (a) whether Government has taken any steps to protect Bio diversity and Marine habitats in the country with particular reference to Tamil Nadu;
(b) if so the details thereof and the funds allocated in the last 5 years, Year-wise and State-wise;
(c) the effective measures taken by the government to curb the prevailing issues and problems pertaining to protection and conservation of bio-diversity and Marine habitats in the country: and
(d) whether the government has signed any agreements with foreign countries and international organisations dealing with Environment and Climate change?

In this connection, the undersigned is directed to request for inputs on the same at the earliest.

With regards,

Achuta Nand Shukla (Ph.D.)
Additional Director/Scientist - E
CS-III (Biodiversity Division)
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan, Jor Bagh Road
New Delhi-110003
Mobile: 8307360282

- Marine Protected Area
= WLS
= Biosphere
= Agastum =

.....
Technical Section
Botanical Survey of India, HQ
Salt Lake City, Kolkata - 700 064

Emails: tech@bsi.gov.in ; tech.bsi2021@gmail.com



Provisionally submitted Rajya Sabha diary no 592

48K

Provisionally Admitted Questions in Rajya Sabha

starred Diary No. - 5921

The Question will be put down for 20/03/2025

Answer on the Ministry Department - Environment, Forest and Climate Change

- (a) whether Government has taken any steps to protect Bio diversity and Marine habitats in the country with particular reference to Tamil Nadu;
- (b) if so the details thereof and the funds allocated in the last 5 years, Year-wise and State-wise;
- (c) the effective measures taken by the government to curb the prevailing issues and problems pertaining to protection and conservation of bio-diversity and Marine habitats in the country; and
- (d) whether the government has signed any agreements with foreign countries and international organisations dealing with Environment and Climate change?

208/19/L
10/03/19


10.03.2025
(अशिमण्यु कुमार शर्मा)
(ASHIMANYU KUMAR SHARMA)
अधिकांश अधिकारी/Section Officer
पर्यावरण, वन एवं जलवायु परिवर्तन विभाग
Min. Environment, Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

Sec. G' (RKK)

Sec. G' (RKK) - Jn. Town

AD (AWS)

10/03/2019

Sir,

I am directed by the Director, BSI to send the sample draft of the MoU with BSI and Berhampur University, Odisha for your kind reference.

Thanking You,

Sudhir Yadav

Botanist, HQ

.....
Technical Section
Botanical Survey of India, HQ
Salt Lake City, Kolkata - 700 064
Emails: tech@bsi.gov.in ; tech.bsi2021@gmail.com

Dr. M. Padmini Sany

**Replies to provisionally admitted Rajya Question Diary No.: 5921
for 20.03.2025 by Botanical Survey of India:**

Question (a) whether the government has taken any steps to protect biodiversity and Marine habitats in the country with particular reference to Tamil Nadu.

Answer: Yes, the government of India and other state governments have taken various steps to protect the biodiversity and Marine habitats, including establishing protected areas, enacting legislation, and implementing conservation programs, with specific examples in Tamil Nadu including the Gulf of Mannar Marine National Park and Biosphere Reserve. Through MEE program (Management Effectiveness Evaluation) assessing the protected areas. It's a tool used to assess how well protected areas are being managed and their effectiveness in conserving flora and fauna. Some important steps taken by the Government for preservation of biodiversity and resources inter alia include: survey, inventorization, taxonomic validation and threat assessment of floral and faunal resources; assessment of the forest cover to develop an accurate database for planning and monitoring; establishment of a Protected Area Network of National Parks, Wildlife Sanctuaries, Conservation and Community Reserves; designating Biosphere Reserves for conservation of representative ecosystems; undertaking of species oriented programs. In addition, Biological Diversity Act 2002 has also been enacted with the aim to conserve biological resources of the country and regulation of access to these resources to ensure equitable sharing of benefits arising out of their use, under which a National Biodiversity Authority and State Biodiversity Boards in all States have been set up for implementing the provisions of the Act.

Question (b) if so, the details thereof and the funds allocated in the last 5 years. Year -wise and state wise.

Answer: Yes, the Indian Government provides financial assistance to States and Union Territories under Centrally Sponsored Schemes such as: Integrated Development of Wildlife Habitat; Project Tiger, and Project Elephant for better protection and conservation of wildlife and their habitat; and Identification of Forest Management Scheme towards protection and management of forests. The Government supports conservation of some prioritized/threatened medicinal plants harboured in specially designated Medicinal Plants Conservation Areas (MPCAs) that are primarily forested areas.

The National Afforestation & Eco-development Board of the Ministry promotes afforestation, tree planting, ecological restoration and eco-development activities in the country, with special attention to degraded areas as well as ecologically fragile areas. The RET plants conserved through Lead Botanical Garden Projects by Botanical Survey of India.

But the year -wise and state wise fund allocation not known.

Question (c) the effective measures taken by the government to curb the prevailing issues and problems pertaining to protection and conservation of bio-diversity and Marine habitats in the country.

Answer: Yes, Indian government has implemented various measures, including legal frameworks, conservation programs, and research initiatives, to address biodiversity and marine habitat protection, with a focus on sustainable management and ecosystem conservation. Here's a more detailed breakdown of the measures taken: Legal and Institutional Framework:

i. Wildlife Protection Act, 1972:

Provides legal protection to many marine animals and has led to the notification of 31 major Marine Protected Areas.

ii. Biological Diversity Act, 2002: Implemented through a three-tiered institutional mechanism (National Biodiversity Authority, State Biodiversity Boards, and Biodiversity Management Committees).

National Biodiversity Authority (NBA): Regulates and conserves India's biological resources and is looking to expand Other Effective Area-based Conservation Measures (OECMs).

State Biodiversity Boards: At the state level, they play a crucial role in implementing the Biological Diversity Act.

Biodiversity Management Committees (BMCs): At the local body level, they are responsible for recording local biodiversity and associated knowledge. Government eyes recognizing non-protected conservation.

The National Biodiversity Authority, which regulates and conserves India's biological resources, is looking to expand. The Ministry funds the monitoring and conservation of marine turtles, marine dolphins and humpback whale under the PAN. In addition, the Government of India has taken several initiatives for protection of Biodiversity and Conservation.

Through MEE program (Management Effectiveness Evaluation) assessing the protected areas. It's a tool used to assess how well protected areas are being managed and their effectiveness in conserving flora and fauna.

Question(d): Whether the government has signed any agreements with foreign countries and international organizations dealing with environment and climate change.

Answer: Yes, the Indian government has signed numerous agreements with foreign countries and international organizations on environmental and climate change issues, including the Paris Agreement and the UNFCCC, and has also engaged in bilateral collaborations and joint statements with countries like China and the UAE

Shri Narendra Modi, Prime Minister of India, and His Highness Sheikh Mohamed bin Zayed Al Nahyan, President of the United Arab Emirates (UAE) recognized the urgent need to address the global challenge of climate change through global collective action while respecting the foundational principles and obligations under the United Nations Framework Convention on the Climate Change (UNFCCC) and the Paris Agreement. The leaders committed to enhance cooperation on climate ambition, decarbonization, and clean energy, and work together to have tangible and meaningful outcomes from the 28th Session of the UNFCCC Conference of Parties.

Dr. K.A. Suguna

Reply to the Rajya Sabha question diary no. 5921

(a) whether the Government has taken any steps to protect Biodiversity and Marine habitats in the country, with particular reference to Tamil Nadu;

1. Botanical Survey of India carried out baseline surveys to document floristic wealth of the state. Intensive studies were carried out in the areas like Sri villiputhur WLS; Kodaikanal WLS, Kanyakumari WLS, Cauvery North WLS, Meghamalai WLS, and Nilgiri Biosphere reserves for endemic taxa and prioritized the taxa demands conservation under approved annual action plan of BSI, SRC.
2. BSI/SRC carried out reinvestigation on the flora of Gulf of Mannar Biosphere Reserve after Tsunami and documented 797 taxa. The work also highlights significance of conservation of Mangrove ecosystems.
3. The implementation of the integrated management plan is going on in Agasthyamala Biosphere reserve (Tamil Nadu) w.e.f March 2022 jointly with the Ministry of Environment, Forest and Climate Change, the State Forest department and BSI as Lead organization.

(b) If so, the details thereof and the funds allocated in the last 5 years, Year-wise and State-wise;

1. No separate fund allocated for the approved action plan project of BSI/SRC.
2. Expenditure Statement for Reinvestigation on The Flora of Gulf of Mannar Biosphere Reserve After Tsunami

Sanctioned amount 2018-2021	8,00,000
Released amount 2018-2021	6,95,000
Total Expenditure	6,94,560
Amount surrendered	440

3. Expenditure Statement for Integrated Management Plan of Agasthyamala Biosphere Reserve

Amount of Rs. 97.112 Lakhs has been sanctioned for the 1st year (2022-23) on 60:40 basis and an amount of Rs. 24.278 Lakhs (Central Share Rs.14.92 Lakhs + State Share Rs. 9.95 Lakhs) has been released during the year 2023-24 towards the Implementation of Pilot Project on Five year Integrated Management Plan of Biosphere Reserve in CSS-ABR (TN Part) vide Government of India letter F.No. 09/ 03/ 2021-CS/BR, dated 20.09.2023 and G.O.D No. 197, Environment, Climate Change and Forests (FR.5) Dept, dated 16.10.2023

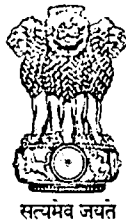
Sanctioned amount for the year 2022-23 (1 st year)	97,11,200
1st instalment amount released during the year 2023-24	24,27,800
Expenditure	24,27,775
Amount surrendered	25

(c) the effective measures taken by the government to curb the prevailing issues and problems about the protection and conservation of biodiversity and Marine habitats in the country: and

1. Officials of BSI SRC regularly interact face to face and are sensitizing the students, the forests officials, environmentalists, and the general public for prevailing issues and problems about the protection and the conservation of biodiversity and different habitats of the state.

(d) whether the government has signed any agreements with foreign countries and international organisations dealing with the Environment and Climate change?

- Nil



भारतसरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA
सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX
तृतीय एम. एस.ओ. भवन / 3RD MSO BUILDING
पाँचवाँ और छठा तल / 5TH & 6TH FLOOR
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साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064
Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/File No.: BSI-288/9/2024-Tech.

दिनांक/Date: .02.2025

सेवामें/To
The Scientist-'F' & H.o.O
Botanical Survey of India,
Industrial Section, Indian Museum
Kolkata- 700016

विषय/Subject: - reg.

महोदय/ Sir,

In reference to your letter vide. No. 15/4/2023-PA/Tech/1306, dated 03.02.2025, regarding the subject mentioned above, I am directed to convey the Competent Authority, Botanical Survey of India regarding the tour report i.e. "Collection of economically important plants/plant products for enrichment of Botanical Gallery, ISIM, BSI with special emphasis on development of new Ethnobotanical section" which you have asked for has already been submitted by BSI, scholar.

This issues with the approval of the Director, Botanical Survey of India.

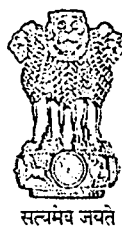
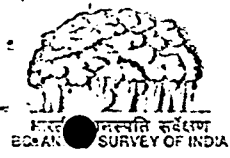
भवदीय / Yours sincerely,

(एस. एस. दाश / S. S. Dash)
प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section

(एस. एस. दाश / S. S. Dash)
वैज्ञानिक एफ / Scientist 'F'
(प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

Distribution:

1. Dr. Manas Bhaumik, Scientist- 'F' & H.o.O, BSI-ISIM.



स्पीड पोस्ट / SPEED POST



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA
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साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064
Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI-286/1 (Parl.) / 2024 -Tech./ 2803. दिनांक/Date : 6th Dec. 2024
सेवा में/To

The Secretary to the Govt. of India,
Ministry of Environment, Forests & Climate Change
Indira Paryavaran Bhawan,
Jor Bagh Road, Aliganj
New Delhi-110 003

(Kind Attention: Shri. Pankaj Verma, Addl. Director/ Sc-E, Govt. of India, MoEF&CC, New Delhi)

विषय/Sub: Protection of threatened and critically endangered species -reg.

महोदया/ Madam,

With reference to your email on Lok Sabha USQ regarding "Protection of threatened and critically endangered species" due for reply on 5.12.2024, I am directed to furnish the point wise information as below:

- a) *Whether it is a fact that more than 300 species of plants from tree to grass have joined the list of various threatened categories assessed between 2020 and 2024;*

Answer: In the latest IUCN Red List of threatened plants, a total of 2970 plants are included which are distributed in India. Of these, 646 species are assessed under the threatened categories. Remaining species are either least Concern or near Threatened. These assessments are not necessarily done between 2020 to 2024. The IUCN Red List is being developed through assessments done throughout the world every year. The number is as per the latest list available on the IUCN website as on July 2024. These assessments are not done by Botanical Survey of India alone, but contributed from many institutes and individuals including the Species Survival Commissions active in this field.

- b) *What is the present number of threatened species and number of species that are listed as critically endangered;*

Answer: As per IUCN red list as on dated (27.11.2024) the critically endangered species assessed from India is 154 including 153 taxa of Tracheophytes and one taxon of Bryophyte (Annex.1 enclosed).

- c) *Whether the Kathlekan Marsh Nut (Semecarpus kathalekanensis) recorded in Uttara Kannada district, Karnataka whose bark, leaves and berries are traded for their aromatic value has now been classified as critically endangered,*

Answer: Yes, *Semecarpus kathalekanensis* is assessed as Critically endangered by IUCN in 2021.

d) If so; the reasons and details thereof; and the steps taken by the government to protect threatened and critically endangered species;

Answer: *Semecarpus kathalekanensis* is endemic to the Western Ghats in India. It is a tree species of about 20 m high and is known from six localities. It grows in the specialized freshwater Myristica swamps found in the evergreen forests, in the central and northern parts of the Western Ghats in the states of Karnataka and Goa. Considering the present distribution of the species, and the magnitude of land conversion that has happened, particularly to the Myristica swamps, it is expected to have undergone habitat fragmentation over the past. The habitat of this species is threatened by the conversion of swamps into areca nut gardens and paddy fields, and the diversion of water for agriculture. There is also future road expansion that could threaten this species. This species has a relatively small extent of occurrence (EOO of 2,177 km²) and a relatively small area of occupancy (AOO of 24 km²). The AOO is based on the ground surveys carried out. Given that the species has a population of less than 120 mature individuals, with the highest number of mature individuals per subpopulation being 39, and there are threats to the habitat, the species is assessed as Critically Endangered.

The habitat of this species is threatened by the conversion of swamps into areca nut gardens and paddy fields, and the diversion of water for agriculture. Trampling of seedlings by domestic cattle is also threatening the recruitment and establishment of this species. The envisaged developmental projects in the form of road expansion could result in the wiping off of one subpopulation.

The bark, leaves and berries are aromatic when crushed. However, the sap from the bark is highly acidic and causes severe allergic reactions.

Considerable research has been ongoing into the population, reproductive ecology, the status of natural regeneration specific to the species and threats to its habitat in general. Also, many efforts on the species recovery programme of *Semecarpus kathalekanensis*, have been initiated which involves the restoration of Myristica swamps and scientific monitoring. This species is subjected to ex situ conservation and some of the subpopulations in Karnataka will receive adequate protection as the area has been designated as a sanctuary for the conservation of Lion-tailed macaque.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय / Yours sincerely,

(एस. एस. दाश / S. S. Dash)

वैज्ञानिक/ Scientist 'F'

(प्रभारी, तकनीकीअनुभाग / In-charge, Tech. Section)

Encl.: As above

प्रेषित/DESPATCHED
Jaya 09/12/24

TECHNICAL SECTION DISPATCHED	
No. T-.....	37
Date :.....	06.12.2024

Sl. No.	Scientific Name	IUCN Category	Criteria	Year of Publication
1.	<i>Semecarpus kathalekanensis</i>	Critically Endangered	C2a(i)	2021
2.	<i>Magnolia pleiocarpa</i>	Critically Endangered	B1ab(i,iii)	2014
3.	<i>Magnolia gustavii</i>	Critically Endangered	C2a(i)	2015
4.	<i>Aquilaria malaccensis</i>	Critically Endangered	A2cd	2018
5.	<i>Elaeocarpus venustus</i>	Critically Endangered	B1ab(iii,v)	2022
6.	<i>Eriocaulon rouxianum</i>	Critically Endangered	B1ab(ii,iii)+2ab(ii,iii)	2011
7.	<i>Isachne meeboldii</i>	Critically Endangered	B2ab(i,ii,iii)	2011
8.	<i>Rotala malabarica</i>	Critically Endangered	B1ab(i,ii,iii)+2ab(i,ii,iii)	2011
9.	<i>Eriocaulon sivarajanii</i>	Critically Endangered	B1ab(iii)+2ab(iii)	2011
10.	<i>Hygrophila madurensis</i>	Critically Endangered	B1ab(ii,iii)+2ab(ii,iii); D	2011
11.	<i>Ischaemum jayachandranii</i>	Critically Endangered	B1ab(ii,iii)+2ab(ii,iii)	2011
12.	<i>Fimbristylis hirsutifolia</i>	Critically Endangered	B1ab(i,ii,iii)+2ab(i,ii,iii)	2011
13.	<i>Isachne veldkampii</i>	Critically Endangered	B1ab(i,ii,iii)+2ab(i,ii,iii)	2011
14.	<i>Eriocaulon ratnagiricum</i>	Critically Endangered	B1ab(ii,iii,v)+2ab(ii,iii,v)	2011
15.	<i>Eriocaulon santapau</i>	Critically Endangered	B1ab(iii)+2ab(iii)	2011
16.	<i>Eriocaulon bolei</i>	Critically Endangered	B1ab(i,iii)+2ab(i,iii)	2011
17.	<i>Eriocaulon sharmae</i>	Critically Endangered	B1ab(iii)+2ab(iii)	2011
18.	<i>Sonneratia griffithii</i>	Critically Endangered	A2cd	2010
19.	<i>Nymphoides sivarajanii</i>	Critically Endangered	B2ab(i,ii,iii)	2011
20.	<i>Nymphoides macrospermum</i>	Critically Endangered	B2ab(iii)	2011
21.	<i>Nothopegia aureo-fulva</i>	Critically Endangered	B1+2c	1998
22.	<i>Meteoromyrtus wynaadensis</i>	Critically Endangered	B1+2c	1998
23.	<i>Memecylon sisparens</i>	Critically Endangered	B1+2c	1998
24.	<i>Ixora johnsonii</i>	Critically Endangered	B1+2c	1998
25.	<i>Ilex khasiana</i>	Critically Endangered	B1+2c, C2b, D	1998
26.	<i>Berberis nilghiriensis</i>	Critically Endangered	B1+2c	1998
27.	<i>Syzygium andamanicum</i>	Critically Endangered	B1+2c	1998
28.	<i>Syzygium courtallense</i>	Critically Endangered	B1+2cde	1998
29.	<i>Wendlandia andamanica</i>	Critically Endangered	B1+2c	1998
30.	<i>Vatica lanceifolia</i>	Critically Endangered	A1cd, C2a	1998
31.	<i>Garcinia cadelliana</i>	Critically Endangered	B1+2c	1998
32.	<i>Kayea manii</i>	Critically Endangered	B1+2c	1998
33.	<i>Nauclea gageana</i>	Critically Endangered	B1+2c	1998
34.	<i>Prismatomeris andamanica</i>	Critically Endangered	B1+2c	1998
35.	<i>Pseudoglochidion anamalayanum</i>	Critically Endangered	B1+2c	1998
36.	<i>Hildegardia populifolia</i>	Critically Endangered	D	1998
37.	<i>Croton lawianus</i>	Critically Endangered	B1+2c	1998
38.	<i>Nothopegia castaneifolia</i>	Critically Endangered	B1+2c	1998
39.	<i>Ficus angladei</i>	Critically Endangered	B1+2c	1998

40.	<i>Pittosporum viridulum</i>	Critically Endangered	B1+2c	1998
41.	<i>Paphiopedilum druryi</i>	Critically Endangered	A2abcd+3bcd+4abcd; B1ab(ii,iii,v)+2ab(ii,iii,v); C1	2015
42.	<i>Paphiopedilum fairrieanum</i>	Critically Endangered	A2acd+3cd+4acd; B2ab(i,ii,iii,v); C1+2a(i); D	2015
43.	<i>Commiphora wightii</i>	Critically Endangered	A2cd	2015
44.	<i>Chlorophytum borivillianum</i>	Critically Endangered	A2cd	2015
45.	<i>Gentiana kurroo</i>	Critically Endangered	A2cd	2015
46.	<i>Gymnocladus assamicus</i>	Critically Endangered	A2cd	2015
47.	<i>Saussurea costus</i>	Critically Endangered	A2cd	2015
48.	<i>Tribulus rajasthanensis</i>	Critically Endangered	A2cd	2015
49.	<i>Utleria salicifolia</i>	Critically Endangered	B2ab(ii,iii)	2015
50.	<i>Valeriana leschenaultii</i>	Critically Endangered	B2ab(iii)	2015
51.	<i>Cycas annaikalensis</i>	Critically Endangered	B2ab(iii,v); C2a(ii)	2023
52.	<i>Crinum malabaricum</i>	Critically Endangered	B1ab(iii,v)+2ab(iii,v)	2016
53.	<i>Zeuxine rolfiana</i>	Critically Endangered	B1ab(iii,v)+2ab(iii,v); C2a(i,ii); D	2016
54.	<i>Aconitum chasmanthum</i>	Critically Endangered	A2cd	2015
55.	<i>Lilium polyphyllum</i>	Critically Endangered	A2cd	2015
56.	<i>Nardostachys jatamansi</i>	Critically Endangered	A2cd	2021
57.	<i>Aquilaria khasiana</i>	Critically Endangered	A2c; B1ab(i,ii)+2ab(i,ii); D	2018
58.	<i>Cycas nayagarhensis</i>	Critically Endangered	B1ab(iii,v)	2022
59.	<i>Cycas orixensis</i>	Critically Endangered	A4ad	2023
60.	<i>Pyrenaria cherrapunjeana</i>	Critically Endangered	D	2018
61.	<i>Hopea erosa</i>	Critically Endangered	C2a(i)	2021
62.	<i>Madhuca insignis</i>	Critically Endangered	C2a(i); D	2020
63.	<i>Magnolia rabaniana</i>	Critically Endangered	C2a(i)	2022
64.	<i>Vateria macrocarpa</i>	Critically Endangered	B1ab(iii,v)	2023
65.	<i>Cinnamomum chemungianum</i>	Critically Endangered	D	2018
66.	<i>Ceropegia odorata</i>	Critically Endangered	C2a(i)	2020
67.	<i>Agasthiyamalaia pauciflora</i>	Critically Endangered	B1+2c	2017
68.	<i>Musa argentii</i>	Critically Endangered	B1ab(i,iii)	2019
69.	<i>Musa arunachalensis</i>	Critically Endangered	D	2019
70.	<i>Curcuma bhatii</i>	Critically Endangered	B1ab(i,ii,iii)+2ab(i,ii,iii); D	2019
71.	<i>Curcuma vamana</i>	Critically Endangered	B2b(iii)c(i,ii,iii)	2019
72.	<i>Larsenianthus arunachalensis</i>	Critically Endangered	B2ab(iii)	2019
73.	<i>Parakaempferia synantha</i>	Critically Endangered	B2ab(iii)	2019
74.	<i>Madhuca diplostemon</i>	Critically Endangered	D	2021
75.	<i>Zingiber arunachalensis</i>	Critically Endangered	A3c; B1ab(i,ii,iii)+2ab(i,ii,iii)	2020
76.	<i>Amomum riwatchii</i>	Critically Endangered	B2ab(ii,iii,iv); D	2019
77.	<i>Cinnamomum walaiwarensense</i>	Critically Endangered	C2a(i)	2020
78.	<i>Ilex gardneriana</i>	Critically Endangered	D	2020
79.	<i>Beilschmiedia aborensis</i>	Critically Endangered	B2ab(iii)	2023
80.	<i>Beilschmiedia brandisii</i>	Critically Endangered	B2ab(iii)	2023

81.	<i>Cinnamomum bhaskarii</i>	Critically Endangered	B2ab(iii)	2023
82.	<i>Cinnamomum champokianum</i>	Critically Endangered	B1ab(i,ii,iii)+2ab(i,ii,iii)	2020
83.	<i>Cinnamomum kingdon-wardii</i>	Critically Endangered	B2ab(iii)	2023
84.	<i>Cinnamomum lohitensis</i>	Critically Endangered	B2ab(iii)	2023
85.	<i>Cinnamomum travancoricum</i>	Critically Endangered	D	2020
86.	<i>Elaeocarpus blascoi</i>	Critically Endangered	B1ab(iii)+2ab(iii); D	2022
87.	<i>Syzygium palghatense</i>	Critically Endangered	B1ab(iii)+2ab(iii); D	2023
88.	<i>Eugenia argentea</i>	Critically Endangered	D	2020
89.	<i>Litsea mishmiensis</i>	Critically Endangered	B2ab(iii)	2023
90.	<i>Musa mannii</i>	Critically Endangered	B1ab(iii)+2ab(iii)	2022
91.	<i>Musa nagalandiana</i>	Critically Endangered	B1ab(iii)+2ab(iii)	2022
92.	<i>Musa rubinea</i>	Critically Endangered	B1ab(v)+2ab(v)	2022
93.	<i>Cryptocarya burkillii</i>	Critically Endangered	B2ab(iii)	2023
94.	<i>Cryptocarya cavei</i>	Critically Endangered	B2ab(iii)	2023
95.	<i>Cryptocarya simonsii</i>	Critically Endangered	B2ab(iii)	2023
96.	<i>Atuna travancorica</i>	Critically Endangered	A2c; C2a(i)	2024
97.	<i>Calophyllum pascalianum</i>	Critically Endangered	D	2024
98.	<i>Garcinia imbertii</i>	Critically Endangered	C2a(i)	2020
99.	<i>Hopea jacobi</i>	Critically Endangered	B1ab(iii,v)+2ab(iii,v)	2023
100.	<i>Dipterocarpus bourdillonii</i>	Critically Endangered	C2a(i)	2021
101.	<i>Garcinia travancorica</i>	Critically Endangered	C2a(i)	2020
102.	<i>Dehaasia assamica</i>	Critically Endangered	B2ab(iii)	2023
103.	<i>Adinandra griffithii</i>	Critically Endangered	C2a(i)	2020
104.	<i>Machilus parviflora</i>	Critically Endangered	B2ab(iii)	2021
105.	<i>Ormosia robusta</i>	Critically Endangered	C2a(i)	2023
106.	<i>Syzygium khasianum</i>	Critically Endangered	C2a(i)	2023
107.	<i>Vachellia bolei</i>	Critically Endangered	D	2020
108.	<i>Quercus thomsoniana</i>	Critically Endangered	B1ab(iii)	2020
109.	<i>Phalaenopsis arunachalensis</i>	Critically Endangered	B2ab(iii); D	2022
110.	<i>Biermannia jainiana</i>	Critically Endangered	B2ab(iii,v); C2a(i,ii); D	2022
111.	<i>Bulbophyllum arunachalense</i>	Critically Endangered	B2ab(iii,v)	2022
112.	<i>Cheirostylis gunnarii</i>	Critically Endangered	B2ab(iii)	2022
113.	<i>Cheirostylis sessanica</i>	Critically Endangered	B2ab(iii)	2022
114.	<i>Cheirostylis tippica</i>	Critically Endangered	B2ab(iii)	2022
115.	<i>Coelogyne hajrae</i>	Critically Endangered	B2ab(iii)	2022
116.	<i>Cylindrolobus gloensis</i>	Critically Endangered	B2ab(iii,v)	2022
117.	<i>Dendrobium nareshbahadurii</i>	Critically Endangered	B2ab(iii)	2022
118.	<i>Diplomeris josephi</i>	Critically Endangered	B2ab(iii)	2022
119.	<i>Gastrodia arunachalensis</i>	Critically Endangered	B2ab(iii)	2022
120.	<i>Neottia confusa</i>	Critically Endangered	D	2022
121.	<i>Neottia dihangensis</i>	Critically Endangered	D	2022
122.	<i>Pleione arunachalensis</i>	Critically Endangered	D	2022
123.	<i>Ponerorchis pathakiana</i>	Critically Endangered	B2ab(iii)	2022
124.	<i>Rhomboda arunachalensis</i>	Critically Endangered	B2ab(iii)	2022

125.	<i>Spathoglottis arunachalensis</i>	Critically Endangered	B2ab(iii,v); C2a(i,ii)	2022
126.	<i>Pecteilis triflora</i>	Critically Endangered	C2a(i)	2023
127.	<i>Peristylus sahanii</i>	Critically Endangered	B2ab(iii); D	2023
128.	<i>Eulophia obtusa</i>	Critically Endangered	B2ab(i,ii,iii,iv,v); C2a(i,ii); D	2023
129.	<i>Murdannia saddlepeakensis</i>	Critically Endangered	B1ab(iii)+2ab(iii)	2024
130.	<i>Oberonia jhae</i>	Critically Endangered	B2ab(iii)	2022
131.	<i>Cryptocarya sheikelmudiyana</i>	Critically Endangered	D	2021
132.	<i>Thrixspermum changlangensis</i>	Critically Endangered	B2ab(iii,v); D	2022
133.	<i>Cylindrolobus lohitisensis</i>	Critically Endangered	B2ab(iii)	2022
134.	<i>Oberonia bopannae</i>	Critically Endangered	B2ab(iii); D	2023
135.	<i>Dicliptera leonotis</i>	Critically Endangered	B1ab(iii)+2ab(iii)	2022
136.	<i>Oberonia arunachalensis</i>	Critically Endangered	B2ab(iii)	2022
137.	<i>Elaeocarpus gaussenii</i>	Critically Endangered	B1ab(iii)+2ab(iii); D	2021
138.	<i>Dalbergia matthewii</i>	Critically Endangered	B1ab(iii)+2ab(iii)	2022
139.	<i>Dialium travancoricum</i>	Critically Endangered	B1ab(i,ii,iii)+2ab(i,ii,iii); D	2023
140.	<i>Syzygium periyarensis</i>	Critically Endangered	D	2023
141.	<i>Pandanus palakkadensis</i>	Critically Endangered	B1ab(iii,v)+2ab(iii,v); C2a(ii)	2024
142.	<i>Lepidagathis clavata</i>	Critically Endangered	B1ab(iii)	2023
143.	<i>Meizotropis pellita</i>	Critically Endangered	B1ab(ii,iii,v)+2ab(ii,iii,v)	2022
144.	<i>Syzygium sasidharanii</i>	Critically Endangered	C2a(i)	2023
145.	<i>Syzygium agastyamalayanum</i>	Critically Endangered	B1ab(iii)+2ab(iii); D	2023
146.	<i>Syzygium ponmudianum</i>	Critically Endangered	B1ab(iii)+2ab(iii); D	2023
147.	<i>Buchanania barberi</i>	Critically Endangered	B2ab(iii,v); C2a(i,ii); D	2023
148.	<i>Madhuca balakrishnanii</i>	Critically Endangered	A2c; B1ab(iii)+2ab(iii); D	2023
149.	<i>Wrightia indica</i>	Critically Endangered	D	2024
150.	<i>Croton gibsonianus</i>	Critically Endangered	B1ab(iii)+2ab(iii)	2024
151.	<i>Cycas zeylanica</i>	Critically Endangered	A2ac	2022
152.	<i>Ceropegia mohanramii</i>	Critically Endangered	B1ab(i,ii,iii,v)+2ab(i,ii,iii,v); C2a(i,ii); D	2024
153.	<i>Diospyros crumenata</i>	Critically Endangered	C2a(i)	2023
154.	<i>Pinnatella limbata</i> (Bryophyte)	Critically Endangered		

Email

Technical Section BSI

Re: Rajya Sabha unstarred Q. dy. No. 1882 for 05.12.2024 regarding Protection of threatened and critically endangered species.

From : Technical Section BSI
<tech@bsi.gov.in>

Fri, Dec 06, 2024 03:04 PM
2 attachments

Subject : Re: Rajya Sabha
unstarred Q. dy. No.
1882 for 05.12.2024
regarding Protection of
threatened and critically
endangered species.

To : sobsi2012@gmail.com,
Achuta Nand Shukla
<achuta.shukla@gov.in
>, rs dot bora
<rs.bora@nic.in>,
Vibhuti Panjiyar
<vibhuti.panjiyar@nic.in
>

Cc : Ashiho Asosii
<aamao@bsi.gov.in>,
Dr Sudhansu Sekhar
Dash
<:ssdash@bsi.gov.in>,
Sudhir Kumar Yadav
<skyadav@bsi.gov.in>

Sir,

With reference to the subject mentioned above, please find the attachments (pdf and wordfile) from BSI regarding Protection of threatened and critically endangered species.

Thanking You,

.....
Technical Section

Botanical Survey of India, HQ

Salt Lake City, Kolkata - 700 064

Emails: *tech@bsi.gov.in ; tech.bsi2021@gmail.com*

From: sobsi2012@gmail.com

To: "Achuta Nand Shukla" <achuta.shukla@gov.in>,
"RAGHU KUMAR KODALI" <kodali.rk@gov.in>, "Ashiho
Asosii" <aamao@bsi.gov.in>, "Dr Sudhansu Sekhar Dash"
<ssdash@bsi.gov.in>, "Technical Section BSI"
<tech@bsi.gov.in>

Cc: "Dr. B Balaji" <secretary@nba.nic.in>, "rs dot bora"
<rs.bora@nic.in>, "Vibhuti Panjiyar"
<vibhuti.panjiyar@nic.in>

Sent: Wednesday, November 27, 2024 1:35:54 PM

Subject: Rajya Sabha unstarred Q. dy. No. 1882 for
05.12.2024 regarding Protection of threatened and critically
endangered species.

Sir,

I am directed to enclose herewith a copy of provisionally
admitted Rajya sabha unstarred question Dy. No. 1882 for
reply on 05.12.2024 regarding "Protection of threatened and
critically endangered species". You are requested to furnish
inputs for framing a reply to this question urgently.

Regards,

Deepali Goel,
Section Officer (CS-II),

MoEF&CC

 **BSI-parl. reply on threatened species.pdf**

3 MB

 **BSI - Parl repl on critically endangered species.docx**

209 KB

From : Technical Section BSI Thu, Nov 28, 2024 04:33 PM
<tech@bsi.gov.in> 1 attachment

Subject : Fwd: Rajya Sabha
unstarred Q. dy. No.
1882 for 05.12.2024
regarding Protection of
threatened and
critically endangered
species.

To : sayanghoshbsi363
<sayanghoshbsi363@g
mail.com>

.....
Technical Section

Botanical Survey of India, HQ

Salt Lake City, Kolkata - 700 064

Emails: *tech@bsi.gov.in ; tech.bsi2021@gmail.com*

From: "Ashiho Asosii" <aamao@bsi.gov.in>

To: "Technical Section BSI" <tech@bsi.gov.in>, "Dr

Sudhansu Sekhar Dash" <ssdash@bsi.gov.in>

Sent: Thursday, November 28, 2024 2:33:56 PM

Subject: Fwd: Rajya Sabha unstarred Q. dy. No. 1882 for 05.12.2024 regarding Protection of threatened and critically endangered species.

For n.a. pl.

From: sobsi2012@gmail.com

To: "Achuta Nand Shukla" <achuta.shukla@gov.in>, "RAGHU KUMAR KODALI" <kodali.rk@gov.in>, "Ashiho Asosii" <aamao@bsi.gov.in>, "Dr Sudhansu Sekhar Dash" <ssdash@bsi.gov.in>, "Technical Section BSI" <tech@bsi.gov.in>

Cc: "Dr. B Balaji" <secretary@nba.nic.in>, "rs dot bora" <rs.bora@nic.in>, "Vibhuti Panjiyar" <vibhuti.panjiyar@nic.in>

Sent: Wednesday, November 27, 2024 1:35:54 PM

Subject: Rajya Sabha unstarred Q. dy. No. 1882 for 05.12.2024 regarding Protection of threatened and critically endangered species.

Sir,

I am directed to enclose herewith a copy of provisionally admitted Rajya sabha unstarred question Dy. No. 1882 for reply on 05.12.2024 regarding "Protection of threatened and critically endangered species". You are requested to furnish inputs for framing a reply to this question urgently.

Regards,

**Technical Section BSI**

Rajya Sabha unstarred Q. dy. No. 1882 for 05.12.2024 regarding Protection of threatened and critically endangered species.

From : sobsi2012@gmail.com Wed, Nov 27, 2024 02:00 PM

Subject : Rajya Sabha unstarred Q. dy. No. 1882 for 05.12.2024 regarding Protection of threatened and critically endangered species. 1 attachment

Sayan
PS Punjab
29/11/2024

To : Achuta Nand Shukla
<achuta.shukla@gov.in>, RAGHU KUMAR KODALI
<kodali.rk@gov.in>, Ashiho Asosii
<aamao@bsi.gov.in>, Dr Sudhansu Sekhar Dash
<:ssdash@bsi.gov.in>, Technical Section BSI
<tech@bsi.gov.in>

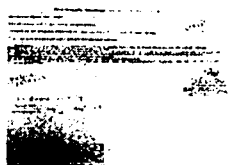
Cc : Dr. B Balaji
<secretary@nba.nic.in>, rs dot bora
<rs.bora@nic.in>, Vibhuti Panjiyar
<vibhuti.panjiyar@nic.in>

Sir,

I am directed to enclose herewith a copy of provisionally admitted Rajya sabha unstarred question Dy. No. 1882 for reply on 05.12.2024 regarding "Protection of threatened and critically endangered species". You are requested to furnish inputs for framing a reply to this question urgently.

Regards,

Deepali Goel,
Section Officer (CS-II),
MoEF&CC



**Unstarred Q. Dy. No. 1882 for
05.12.2024.jpeg**
43 KB

1998



141

- insert the list

23.11.28

[illegible]

22.

Provisionally Admitted Questions in Rajya Sabha

unstarred Diary No. - 1882

The Question will be put down for 05/12/2024

141

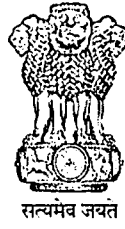
Answer on the Ministry Department - Environment, Forest and Climate Change

Protection of threatened and critically endangered species;

- Whether it is a fact that more than 300 species of plants from tree to grass have joined the list of various threatened categories assessed between 2020 and 2024 ;
- What is the present number of threatened species and number of species that are listed as critically endangered;
- Whether the Kathlekan Marsh Nut (*Semecarpus kathalekanensis*) recorded in Uttara Kannada district, Karnataka whose bark, leaves and berries are traded for their aromatic value has now been classified as 'critically endangered';
- If so: the reasons and details thereof; and the steps taken by the government to protect threatened and critically endangered species;



EW/68209700IN



स्पीड पोस्ट / SPEED POST



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA
सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX
तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING
पॉचवॉ और छठा तल / 5TH & 6TH FLOOR
डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I
साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064
Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइलसंख्या/File No.: BSI-286/1 (Parl.)/2024/Tech. / 2808

दिनांक/Date : 13.12.2024

सेवामें / To

18

The Secretary
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan, Jor Bagh Road
New Delhi-110003

(Kind Attention: Wetland Division, MoEF&CC, New Delhi)

विषय / Sub: Rajya Sabha Starred Question Diary No. 4833 for 19.12.2024 regarding "Protecting the East Kolkata Wetlands" -reg.

महोदय / Madam,

With reference to the email dated 08.12.2024 on the question 'Protecting the East Kolkata Wetlands' under Question Diary No. 4833, the undersigned is directed to furnish the following information for your kind perusal:

a) Whether Government is aware of East Kolkata Wetlands, designated as Ramsar Site, is facing significant threats due to rapid urbanization and infrastructural encroachments;

Answer: Yes.

b) The measures that have been implemented to prevent unauthorized land use changes and protect the ecological integrity of this wetland ecosystem;

Answer: Not applicable to BSI.

c) Whether any plans are introduced for stricter regulations or policy amendments to address the ongoing threats and encroachments in these Wetlands, and if so, the timeline for such actions; and

Answer: Not applicable to BSI.

d) Whether Government is aware of the degradation in water quality and biodiversity loss in the East Kolkata Wetlands due to untreated sewage and industrial effluents?

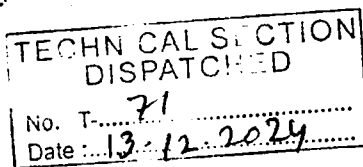
Answer: BSI is mandated for survey, exploration, documentation of the wild plant resources of the country. Towards documenting the floristic diversity of all the 75 Ramsar sites of India, BSI has recently published a compendium on Flora of Ramsar sites of India, including East Kolkata wetland (2024). However, study on degradation in water quality and the impact of untreated sewage and industrial effluents does not come under the purview of BSI.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय / Yours sincerely,

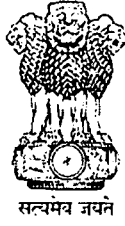
प्रेषित/DESPATCHED
Jaya
18/12/24



(सी.मुरुगन / C. Murugan)

वैज्ञानिक एफ/ Scientist 'F'

(कार्यालय अध्यक्ष / Head of Office)



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA
सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX
तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING
पाँचवाँ और छठा तल / 5TH & 6TH FLOOR
डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I
साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064
Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइलसंख्या/File No.: BSI-286/1 (Parl.)/2024/Tech.

दिनांक/Date : 13.12.2024

सेवामें / To

The Secretary
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan, Jor Bagh Road
New Delhi-110003

(Kind Attention: Wetland Division, MoEF&CC, New Delhi)

विषय / Sub: Rajya Sabha Starred Question Diary No. 4833 for 19.12.2024 regarding "Protecting the East Kolkata Wetlands" -reg.

महोदया / Madam,

With reference to the email dated 08.12.2024 on the question 'Protecting the East Kolkata Wetlands' under Question Diary No. 4833, I am directed to furnish the following information for your kind perusal:

a) Whether Government is aware of East Kolkata Wetlands, designated as Ramsar Site, is facing significant threats due to rapid urbanization and infrastructural encroachments;

Answer: This question does not come under the purview of Botanical Survey of India. *Yes*

b) The measures that have been implemented to prevent unauthorized land use changes and protect the ecological integrity of this wetland ecosystem;

Answer: Not applicable to BSI.

c) Whether any plans are introduced for stricter regulations or policy amendments to address the ongoing threats and encroachments in these Wetlands, and if so, the timeline for such actions; and

Answer: Not applicable to BSI.

d) Whether Government is aware of the degradation in water quality and biodiversity loss in the East Kolkata Wetlands due to untreated sewage and industrial effluents?

Answer: BSI is mandated for survey, exploration, documentation of the wild plant resources of the country. Towards documenting the floristic diversity of all the 75 Ramsar sites of India, BSI has recently published a compendium on Flora of Ramsar sites of India, including East Kolkata wetland (2024). However, study on degradation in water quality and the impact of untreated sewage and industrial effluents does not come under the purview of BSI.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय / Yours sincerely,

(सी.मुरुगन / C. Murugan)

वैज्ञानिक एफ/ Scientist 'F'

(कार्यालय अध्यक्ष / Head of Office)

Provisionally Admitted Questions in Rajya Sabha

starred Diary No. - 4833

The Question will be put down for 19/12/2024

Answer on the Ministry Department - Environment, Forest and Climate Change

Protecting the East Kolkata Wetlands

- (a) whether Government is aware of East Kolkata Wetlands, designated as Ramsar Site, is facing significant threats due to rapid urbanisation and infrastructural encroachments;
- (b) the measures that have been implemented to prevent unauthorised land use changes and protect the ecological integrity of this wetland ecosystem;
- (c) whether any plans are introduced for stricter regulations or policy amendments to address the ongoing threats and encroachments in these Wetlands, and if so, the timeline for such actions; and
- (d) whether Government is aware of the degradation in water quality and biodiversity loss in the East Kolkata Wetlands due to untreated sewage and industrial effluents?

J

233/24/Pm
08/12/24

~~JS(RA)~~



9/12

~~Secy (AIR)~~

W/L

Const. (CS)
S.O (TV) ✓



For min -
10/12/24

R
9/12

08.12.2024

(अभिमन्यु कुमार शर्मा)
(ABHIMANYU KUMAR SHARMA)
अनुभाग अधिकारी/Section Officer
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min. of Environment Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

Subject: Fwd: Rajya Sabha Starred Question vide Dairy No. 4833 for reply on 19.12.2024 regarding Protecting the East Kolkata Wetlands

To: Technical Section BSI <tech@bsi.gov.in>, tech bsi2021 <tech.bsi2021@gmail.com>

From: "Wetlands Division MoEFCC" <wetlands-mefcc@gov.in>

To: "DHRITI BANERJEE" <director@zsi.gov.in>, zsiolkata@gmail.com, "Debal Ray, IFS" <pccfwb@nic.in>, "Niraj Singhal, IFS" <pccfhoff-wb@nic.in>, "bsi headquarter" <bsi.headquarter@gmail.com>, "MS, CPCB" <mscb.cpcb@nic.in>, ctoekwma@gmail.com, kalyanbinu26@gmail.com, wbfordept@gmail.com, "ADMIN BSI" <admin@bsi.gov.in>

Cc: "Dr. Ramesh M" <ramesh.motipalli@nic.in>, "Pankaj Verma" <pankaj.verma@nic.in>, "Chandan Singh" <c.singh@nic.in>, "Tarun Verma" <tarun.v@gov.in>, "PRAMOD ." <pramod.rao1998@gov.in>

Sent: Tuesday, December 10, 2024 11:25:07 AM

Subject: Rajya Sabha Starred Question vide Dairy No. 4833 for reply on 19.12.2024 regarding Protecting the East Kolkata Wetlands

Sir/Madam,

I am directed to attach Parliament Notice for Rajya Sabha Starred Question vide Dairy No. 4833 for reply on 19.12.2024 regarding Protecting the East Kolkata Wetlands. It is requested to kindly provide inputs/information (point wise) in word document along-with note for supplementary by 12.12.2024 positively.

Best Regards

WETLANDS DIVISION

Min. of Environment, Forest and Climate Change (MoEF&CC)
5th Floor, Vayu Wing

13/12/2024, 14:31

Email

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi – 110003, India

Phone no./ Intercom: +91-11-20819242 / 4538
+91-11-20819338 / 4256
+91-11-20819396 / 5234

– RS Starred diary no. 4833_0001.pdf
277 KB

**Technical Section BSI**

Fwd: Rajya Sabha Starred Question vide Dairy No. 4833 for reply on 19.12.2024 regarding Protecting the East Kolkata Wetlands

From : tech bsi2021
<tech.bsi2021@gmail.com>

Wed, Dec 11, 2024 03:05 PM

1 attachment

Subject : Fwd: Rajya Sabha
Starred Question vide
Dairy No. 4833 for
reply
on 19.12.2024 regardi
ng Protecting the East
Kolkata Wetlands

To : cbl bsi
<cbl_bsi@yahoo.com>
,
calherbarium@yahoo.c
o.in,
bsiisim@rediffmail.com
, ibg bsi
<ibg_bsi@rediffmail.co
m>,
drpratibha2024@gmail
.com,
daskanadbsi@gmail.co
m, dr manasb
<dr_manasb@yahoo.c
om>,
singhdrds@rediffmail.c
om

Cc : aamao2008@gmail.com
m, Ashiho Asosii
<aamao@bsi.gov.in>,
Dr Sudhansu Sekhar
Dash
<:ssdash@bsi.gov.in>,
Technical Section BSI
<tech@bsi.gov.in>,
Sudhir Kumar Yadav
<skyadav@bsi.gov.in>

Sir,

With reference to the subject mentioned above, I am directed to forward the trailing mail on parliamentary questions regarding Protecting the East Kolkata Wetlands, received from the Ministry.

In this regard, I am directed to request you to kindly provide the necessary inputs on the above queries in reply mail, positively by 12.12.2024 (1 PM), positively.

This may be treated as URGENT please.

Thanking you,

with regards,
Sudhir Yadav
Botanist, HQ

.....
Technical Section

Botanical Survey of India, HQ
Salt Lake City, Kolkata - 700 064

Emails tech@bsi.gov.in ; tech.bsi2021@gmail.com

----- Forwarded message -----

From: **ADMIN BSI** <admin@bsi.gov.in>

Date: Tue, Dec 10, 2024 at 2:59 PM

Email

Technical Section B!

Fwd: Urgent: Provisionally admitted questions in Rajya Sabha- unstarred Diary No. - 1192 to be put down for 28/11/2024.

From : Achuta Nand Shukla <achuta.shukla@gov.in>
Subject : Fwd: Urgent: Provisionally admitted questions in Rajya Sabha- unstarred Diary No. - 1192 to be put down for 28/11/2024.

Tue, Nov 19, 2024 09:46 AM

1 attachment

To : Dr. B Balaji <secretary@nba.nic.in>, Technical Section BSI <tech@bsi.gov.in>, DHRITI BANERJEE <director@zsi.gov.in>, Technical Section ZSI HQ, Kolkata <technical@zsi.gov.in>, Dr Sudhansu Sekhar Dash <ssdash@bsi.gov.in>, Ashiho Asosii Mao <hq@bsi.gov.in>, Ashiho Asosii <aamao@bsi.gov.in>

Cc : RAGHU KUMAR KODALI <kodali.rk@gov.in>, Statistics Division <stats-moef@gov.in>

Srincheta
Pls put up
Shukla
19/11/2024

Dear Madam/Sir,
 Reference to the trailing email, please provide the comments directly to the Statistics Division copy to us.
 Regards

Achuta Nand Shukla (Ph.D.)
 Additional Director/Scientist - E
 CS-III (Biodiversity Division)
 Ministry of Environment, Forest and Climate Change

<https://email.gov.in/h/printmessage?id=C:-72506&tz=Asia/Kolkata&xim=1>

1/3

11/19/24, 11:08 AM

Email

Indira Paryavaran Bhawan, Jor Bagh Road
 New Delhi-110003
 Mobile: 8307360282

===== Forwarded message =====

From: Anchal Jain <stats-moef@gov.in>

To: "Prashant Gargava" <prashant.cpcb@gov.in>, "Shard Sapra" <shard.sapra@nic.in>, "tarunpithode" <tarun.pithode@mp.gov.in>, "Ruchika Drall" <ruchika.drall@gov.in>, "Achuta Nand" <achuta.shukla@gov.in>

Cc: "Rajasree Ray" <rajasree.r@nic.in>, "Neelesh Sah" <sahnk@cag.gov.in>, "RAGHU KUMAR KODALI" <kodali.rk@gov.in>, "Ved Mishra" <mishra.vp@gov.in>, "C. S. MISHRA" <cs.mishra69@gov.in>, "Anchal Jain" <anchal.iss@mospi.gov.in>

Date: Mon, 18 Nov 2024 17:56:16 +0530

Subject: Urgent: Provisionally admitted questions in Rajya Sabha- unstarred Diary No. - 1192 to be put down for 28/11/2024.

===== Forwarded message =====

URGENT/Parliament Matter

TECHNICAL SECTION, OFFICE OF DIRECTOR, BSI, MOEF	
Dy. No.	T-16
Date	19.11.2024

Respected Sir,

Reference is invited to the Provisionally admitted questions in Rajya Sabha- unstarred Diary No. - 1192 to be put down for 28/11/2024. The same is reproduced below:

- what are the reasons behind India's abysmal rank of 176th out of 180 countries in the Global Nature Conservation Index, 2024
- since India's rank at the bottom is mainly attributed to inefficient land management and rising threats to its biodiversity, what measures have the ministry taken up in these areas.
- what specific measures have been implemented against threat to India's biodiversity, including habitat loss and fragmentation; and

<https://email.gov.in/h/printmessage?id=C:-72506&tz=Asia/Kolkata&xim=1>

2/3

(d) how do we plan to navigate the needs and demands of rapid urbanization and growth along with climate change risks?

In this regard, it is requested to concerned division provide inputs on the associated questions (b), (c) and (d) latest by **20 November 2024**.

Question No.	Concerned Division
b and c	Biodiversity
d	CC and CP

This may kindly be treated as urgent.

Regards,

Anchal Jain
AD(Statistical)
Statistics Division
Room No 604, Vardh. Wing
Ministry of Environment, Forest and Climate Change
Indira Bhawan, Bhopal
Indira Park Road, New Delhi-110003
Ph: 20819297

Provisionally Admitted Question in Rajya Sabha Diary No 1192.pdf
547 KB

Provisionally Admitted Questions in Rajya Sabha

unstarred Diary No. - 1192

The Question will be put down for 28/11/2024

Answer on the Ministry Department - Environment, Forest and Climate Change

Global Nature Conservation Index

- (a) what are the reasons behind India's abysmal rank of 176th out of 180 countries in the Global Nature Conservation Index, 2024;
- (b) since India's rank at the bottom is mainly attributed to inefficient land management and rising threats to its biodiversity, what measures have the ministry taken up in these areas;
- (c) what specific measures have been implemented against threats to India's biodiversity, including habitat loss and fragmentation; and
- (d) how do we plan to navigate the needs and demands of rapid urbanization and growth along with climate change risks?

H

Office of DDG (Statistics)
Dy. No. 178/M/2024
Date 18/11/2024

S7/24/R
18/11/24


18.11.2024
(अभिमन्यु कुमार शर्मा)
(ABHIMANYU KUMAR SHARMA)
अनुभाग अधिकारी/Section Officer
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
M/o Environment, Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

~~DDG (STATS)~~

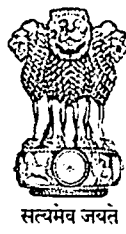
Amisha

18-11-2024

ADC (Stats)



EW051 097935JM



स्पीड पोस्ट / SPEED POST



भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDINGपाँचवाँ और छठा तल / 5TH & 6TH FLOOR

डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I

साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/File No. BSI-286/1/(Parl.)/2024-Tech/ 2262

दिनांक /Date: 15th July, 2024

सेवा में / To

The Secretary of the Govt. of India
Ministry of Environment, Forest and Climate Change
New Delhi – 110 003.

(Kind attention : Shri Vibhuti Panjiyar, Under-Secretary to the Govt. of India, MoEF&CC)

विषय/Subject Lok Sabha provisionally admitted question dy no. 131 for answer on 22.07.2024संदर्भ/Reference Email dt. 12th July, 2024

Ma'am / Sir,

In reference to the email dt. 12th July, 2024 on the question "Reduction of Green Cover in Cauvery Basin" Provisionally Admitted in the Lok Sabha under Question Diary No. 131, I am directed to furnish the following information for your kind perusal:

a) *Whether the Government has taken any efforts and released funds for the protection of flora and fauna of Yelagir hills, Javadu hills to save, conserve and protect Bio-diversity of the region?*

BSI has not released any funds for the protection of flora and fauna of Yelagir hills, Javadu hills particularly. However, BSI carries out the documentation, inventorization, survey of floristic wealth of the region regularly and selectively conserves species of Eastern Ghats in its Experimental Garden of Southern Regional Centre (SRC), Coimbatore.

b) *If so, the details thereof and the effective measures taken by the Government to protect and conserve flora and fauna in the Western and Eastern Ghats in the State of Tamil, Nadu*

Under the Assistance to Botanic Garden (ABG) Programme of MoEF&CC the following gardens have been funded by BSI:

1. National Orchidarium & Experimental Garden of BSI, SRC, Coimbatore, Tamil Nadu
2. ICFRE- Institute of Forest Genetics and Tree Breeding, Tamil Nadu
3. Tamil Nadu Agricultural University, Tamil Nadu

Further, BSI has received funds to carry out floristic research in Agasthyamalai Biosphere Reserve as a lead institute under the Integrated Management plan for Biosphere Reserve.

c) *The details of the total funds allocated during the last five years, year-wise:*

The details are as under:

Year	Name of the Botanic Garden	Amount disbursed (in Lakhs)
2019-20	National Orchidarium & Experimental Garden of BSI, SRC, Coimbatore, Tamil Nadu	₹ 13,04,479.00
2020-21	No Fund Disbursal	-

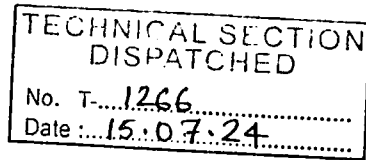
2021-22	No Fund Disbursal to Tamil Nadu	-
2022-23	No Fund Disbursal to Tamil Nadu	-
2023-24	1. ICFRE- Institute of Forest Genetics and Tree Breeding, Tamil Nadu 2. Tamil Nadu Agricultural University, Tamil Nadu	1. ₹ 11,64,000.00 2. ₹ 12,00,000.00
Total fund disbursed:		₹ 36,68,479.00

सधन्यवाद / Thanking you,

भवदीय / Yours sincerely,

(Signature)
15/7/2024
एस. एस. दाश / S. S. Dash)
वैज्ञानिक - 'एफ' / Scientist - 'F'

(प्रभारी, तकनीकी अनुभाग / In-charge, Technical Section)



प्रेषित / DESPATCHED
Jaya 15/07/24

Lok Sabha provisionally admitted question dy no 131 for answer on 22.07.2024

From : Vibhuti Panjiyar <vibhuti.panjiyar@nic.in> Fri, Jul 12, 2024 05:10 PM
Subject : Lok Sabha provisionally admitted question dy no 131 for answer on 22.07.2024 1 attachment
To : Technical Section BSI <tech@bsi.gov.in>, Technical Section ZSI HQ, Kolkata <technical@zsi.gov.in>, Ashiho Asosii <aamao@bsi.gov.in>, tamilnaduforestminister@gmail.com, secy tnbb <secy.tnbb@tn.gov.in>, Forest tnforest <tnforest@nic.in>, subhaash chandra <subhaash.chandra@gmail.com>, K.B. Singh <igf.naeb@gov.in>, Rakesh Kumar JAGENIA <digwl-mefcc@gov.in>
Cc : RAGHU KUMAR KODALI <kodali.rk@gov.in>, Achuta Nand Shukla <achuta.shukla@gov.in>, kaveri choudhary <kaveri.choudhary@gov.in>, Shivani Gupta <gupta.shivani@govcontractor.in>

Madam/Sir,

I am directed to request you to kindly refer to the attached Notice of the provisionally admitted Lok Sabha question Dy no. 131 for answer on 22.07.2024. The text of the question may be read as under:

Reduction of Green Cover in Cauvery Basin

Will the Minister of ENVIRONMENT, FOREST AND CLIMATE CHANGE

- (a) whether the Government has taken any efforts and released funds for the protection of flora and fauna of Yelagir hills, Javadu hills to save, conserve and protect Bio-diversity of the region;
- (b) if so, the details thereof and the effective measures taken by the Government to protect and conserve flora and fauna in Western and Eastern Ghats in the State of Tamil Nadu, and
- (c) the details of total funds allocated during the last five years, year-wise.

2. It is requested to kindly provide the information for the concerned part at the earliest, by 15.07.2024.

सधन्यवाद/ Kind regards,
विभूति पंजियार/ Vibhuti Panjiyar
अवर सचिव / Under Secretary
पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय / Ministry of Environment, Forest and Climate Change



Notice of the PQ.jpeg
96 KB

Lok Sabha provisionally admitted question dy no 131 for answer on 22.07.2024

From : Vibhuti Panjiyar <vibhuti.panjiyar@nic.in> Fri, Jul 12, 2024 05:10 PM
Subject : Lok Sabha provisionally admitted question dy no 131 for answer on 22.07.2024 1 attachment

To : Technical Section BSI <tech@bsi.gov.in>, Technical Section ZSI HQ, Kolkata <technical@zsi.gov.in>, Ashiho Asosii <aamao@bsi.gov.in>, tamilnaduforestminister@gmail.com, secy tnbb <secy.tnbb@tn.gov.in>, Forest tnforest <tnforest@nic.in>, subhaash chandra <subhaash.chandra@gmail.com>, K.B. Singh <igf.naeb@gov.in>, Rakesh Kumar JAGENIA <digwl-mefcc@gov.in>

Cc : RAGHU KUMAR KODALI <kodali.rk@gov.in>, Achuta Nand Shukla <achuta.shukla@gov.in>, kaveri choudhary <kaveri.choudhary@gov.in>, Shivani Gupta <gupta.shivani@govcontractor.in>

Namrata n)
 12/7/2024

TECHNICAL SECTION, OFFICE OF DIRECTOR, BSI,	
Dy. No.	T-608
Date	15.07.24

Madam/Sir,

I am directed to request you to kindly refer to the attached Notice of the provisionally admitted Lok Sabha question Dy no. 131 for answer on 22.07.2024. The text of the question may be read as under:

Reduction of Green Cover in Cauvery Basin

Will the Minister of ENVIRONMENT, FOREST AND CLIMATE CHANGE

(a) whether the Government has taken any efforts and released funds for the protection of flora and fauna of Yelagir hills, Javadu hills to save, conserve and protect Bio-diversity of the region;

✓ (b) if so, the details thereof and the effective measures taken by the Government to protect and conserve flora and fauna in Western and Eastern Ghats in the State of Tamil Nadu, and

(c) the details of total funds allocated during the last five years, year-wise.

2. It is requested to kindly provide the information for the concerned part at the earliest, by 15.07.2024.

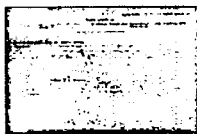
ABG - Yercand
 Namrata - TNAU
 - Agastumalai

सधन्यवाद/ Kind regards,

विभूति पंजियार/ Vibhuti Panjiyar

अवर सचिव / Under Secretary

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय / Ministry of Environment, Forest and Climate Change



Notice of the PQ.jpeg

96 KB

7/11/24, 3:02 PM

Digital Sansad

Uploaded on: 11 Jul 2024 14:53:43

LOK SABHA

Ministry to which the day has been
allotted :

**ENVIRONMENT, FOREST AND CLIMATE
CHANGE**

Sitting On the :22/07/2024

D.No : 131

Reduction of Green Cover in Cauvery Basin

Will the Minister of ENVIRONMENT, FOREST AND CLIMATE CHANGE

(a) whether the Government has taken any efforts and released funds for the protection of flora and fauna of Yelagir hills, Javadu hills to save, conserve and protect Bio-diversity of the region; (b) if so, the details thereof and the effective measures taken by the Government to protect and conserve flora and fauna in Western and Eastern Ghats in the State of Tamil Nadu; and (c) the details of total funds allocated during the last five years, year-wise?

Scientist (RKK)

11/24/24
11/7/24

11-07-2024
US (Pass)



EW229019879IN.



स्पीड पोस्ट / SPEED POST



भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING

पाँचवाँ और छठा तल / 5TH & 6TH FLOOR

डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I

साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI- 286/1 (Parl.) / 2021 -Tech./57

दिनांक/Date : 5TH February, 2025

सेवा में / To

The Secretary

Ministry of Environment, Forest and Climate Change

Indira Paryavaran Bhawan, Jor Bagh Road

New Delhi - 110003

(Kind attention: Dr Tushar Karmarkar, Dy. Secretary, Dept. of Health Research, Ministry of Health and Family Welfare, New Delhi)

Subject: Lok Sabha Admitted Unstarred Question No 788 for 7.2.25 regarding Region Specific naming of Fungus as *Trichophyton indotineae*.- reg.

महोदय / Sir,

With reference to your email, dated 04th February, 2025 regarding region specific naming of fungus as *Trichophyton indotineae*, I am directed to furnish herewith the following information pertaining to BSI for your kind perusal and necessary action.

(a) The steps taken/proposed to be taken by the Government to address the concerns raised about the region-specific naming of fungus as *Trichophyton indotineae*

Answer: In response to these concerns, the Indian Government and International bodies like the International Code of Nomenclature may reevaluate the naming process and establish new standards for naming *Trichophyton indotineae*. Additionally, organizations such as the World Health Organization (WHO) and other global entities may also provide guidance to encourage universally accepted practices, based on scientific objectivity and free from geographical bias.

(b) Whether the Government has engaged with international organizations to review or challenge the naming convention used for the fungus and if so, the details thereof;

Answer: The Government is in dialogue with scientific organizations such as the World Health Organization (WHO) or the International Code of Nomenclature, with the aim of reassessing the naming process to promote neutrality and avoid any geographical prejudice.

(c) The measures are being implemented to combat the spread of *Trichophyton indotineae* within the country

Answer: The government is implementing multifaceted measures viz. improved mycological diagnostics, regulation of over-the-counter corticosteroids, public health campaigns on dermatophyte prevention, and research into second-line antifungal therapies.

(d) Whether the Government has data on the prevalence of *Trichophyton indotineae* infections across different States in the country and if so, the details thereof; and

Answer: The Indian Government, through their national surveillance programs by Ministry of Health, ICMR, and state-level health departments, is actively collecting data regarding the prevalence of *Trichophyton indotineae* infections. Such information would be vital in understanding the spread of the infection across the country, identifying key risk factors, and determining effective response measures.

(e) Whether any research initiatives are being funded/proposed to be funded to understand the origin and treatment options for *Trichophyton indotineae* and if so, the details thereof?

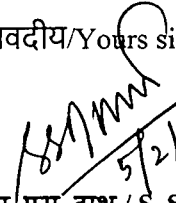
Answer: The Indian Government, through its institutions like Indian Council of Medical Research (ICMR) and other research bodies, typically supports studies on emerging fungal infections that may present a public health concern. Although funding of Research projects for diagnosis and treatment of *Trichophyton indotineae* involving global collaborations with universities, international health organizations, and specialized research labs will be initiated in a full phase, which is likely to focus on understanding the genetic structure of the fungus, tracking its spread through epidemiological studies, and developing effective antifungal treatments or alternative therapies.

However, the topic "Prevalence of *Trichophyton indotineae* - a pathogenic fungus is absolutely related to medical microbiology, therefore no authentic information is available with the Botanical Survey of India regarding this pathogenic fungus.

This issues with the approval of Director, Botanical Survey of India.

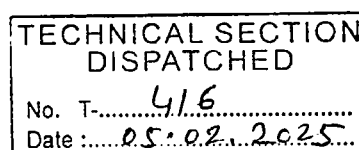
सधन्यवाद/ Thanking you,

भवदीय/Yours sincerely


(एस. एस. दाश / S. S. Dash)

वैज्ञानिक एफ / Scientist 'F'

(प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)



Re: MOST URGENT: Lok Sabha Admitted Unstarred Question No 788 for 7.2.25 reg Region Specific naminf of Fungus as Trichophyton Indotinea.

Me Me <tech@bsi.gov.in>

Wed, 05 Feb 2025 6:12:46 PM +0530

To "Nameeta Prasad" <nameeta.prasad@gov.in>, "sobsi2012" <sobsi2012@gmail.com>, "KARMARKAR TUSHAR" <tushar.arun@gov.in>

Cc "Ashiho Asosii Mao" <aamao@bsi.gov.in>, "Dr Sudhansu Sekhar Dash" <ssdash@bsi.gov.in>

Sir,

In reference to the above subject, please find enclosed herewith the signed copy of a reply from BSI in connection to the Lok Sabha Admitted Unstarred Question No 788 for 7.2.25 reg Region Specific naming of Fungus as *Trichophyton indotinea* for your kind perusal.

Thanking You

----- On Wed, 05 Feb 2025 08:53:42 +0530 KARMARKAR TUSHAR <tushar.arun@gov.in> wrote

...

.....
Technical Section
Botanical Survey of India, HQ
Salt Lake City, Kolkata - 700 064
Emails: tech@bsi.gov.in ; tech.bsi2021@gmail.com

📎 1 Attachment(s) Download as Zip



LS 788 05.02.2025.pdf
617.5 KB 🔗



भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING

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डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I

साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइलसंख्या/File No.: BSI-286/1 (Parl.)/2024/Tech. / 1489
सेवामें / To

दिनांक/Date : 31.07.2024

The Secretary
Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan, Jor Bagh Road
New Delhi-110003

विषय / Sub: Lok Sabha Unstarred Question No.1862 for 02/08/2024 regarding 'Research and Development of Medicinal Plants in Haryana'-reg.

महोदय / Sir,

With reference to your email dated 29.07.2024 on the above mentioned subject, I am furnishing herewith the point wise information for your kind perusal and necessary action:

a) Whether the Government has set up any research and development on medicinal plants in the country, State/UT-wise;

Answer: Yes, Sir. Presently various Research Institutes/ Centres/ units of different Research councils under Ministry of AYUSH, Govt. of India have been established and engaged in Medicinal and Aromatic Plants across the country.

1. NMPB, Ministry of AYUSH under its scheme on 'conservation, Development and Sustainable management of Medicinal and Aromatic Plants' provides project based on financial support to carry out research activities on various aspects of Medicinal and Aromatic Plants of Government
2. CSIR and ICAR conduct basic and applied research on medicinal plants.
3. BSI looks after its botanical garden all around the country and executes ex-situ conservation of medicinal plants through collection, introduction, multiplication and conservation of important indigenously wild plants including Medicinal and Aromatic Plants.
4. Through ABG scheme BSI funds different colleges and universities across India to conserve Medicinal and Aromatic Plants in their Botanic Garden.

b) If so, the details thereof, State/UT-wise;

Answer: This question does not pertain to BSI.

c) Whether the Government proposes to set up any research centre in Haryana particularly in Sonapat Lok Sabha Constituency

Answer: This question does not pertain to BSI.

d) if so, the details thereof alongwith the projects being run with respect of medicinal plants in this regard; and

Answer: This question does not pertain to BSI.

e) If not, the reasons therefore?

Answer: This question does not pertain to BSI.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय / Yours sincerely,

(उमेशकुमार ल. तिवारी / Umeshkumar L. Tiwari)

वैज्ञानिक डी / Scientist 'D'

For, (प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

**Re: Lok Sabha Unstarred Question No. 1862 for 02/08/2024
regarding 'Research and Development of Medicinal Plants'-reg.**

From : Dr.Bidhan Mahajon <dr.bidhan@gov.in> Mon, Jul 29, 2024 02:17 PM
Subject : Re: Lok Sabha Unstarred Question No. 1862 for 02/08/2024 regarding 'Research and Development of Medicinal Plants'-reg. 3 attachments

To : Dr(Mr) Himanshu Pathak
<dg.icar@nic.in>, Ashwani Kumar
<jsadmn-agri@gov.in>, Chandra
Prakash Goyal <cpgoyal@nic.in>,
Director General CSIR <dg@csir.res.in>,
Director General CSIR
<dgcsir@csir.res.in>, Secretary DSIR
<secy-dsir@gov.in>, DG ICMR <secy-
dg@icmr.gov.in>, Rabinarayan Acharya
<dg-ccras@nic.in>,
ccrhindia@gmail.com,
unanimedicine@gmail.com,
ccrschennai@gmail.com, icmrhqds
<icmrhqds@sansad.nic.in>, Ms Leena
Nandan <secy-moef@nic.in>, Itakpa
jigmet <Itakpa.jigmet@gov.in>, DBT
Bioresource PD <bioresource-
dbt@dbt.nic.in>, Parliament Cell
<parl@csir.res.in>,
ccrh@del3.vsnl.net.in,
ccrhpq@gmail.com, manish das
<manish.das@icar.gov.in>, Manoj Bapna
<manojb12365-cgo@gov.in>, Renu
sharma <renu.sharma16@gov.in>,
parliamentreply ccras
<parliamentreply.ccras@gmail.com>, A
Dhanalakshmi <a.dhanalakshmi@nic.in>,
neifmpasighat@gmail.com, Technical
Section BSI <tech@bsi.gov.in>,
NationalResearchInstituteForSowaRigpa
ResearchOfficer-Incharge <nris-
leh@gov.in>

Cc : Prof. Dr. Mahesh Kumar Dadhich <ceo-nmpb@nic.in>, Dy. CEO NMPB Mo AYUSH <dyceo-nmpb@nic.in>, Murugeswaran R <dr.murugesw.nmpb@gov.in>, admn nmpb <admn.nmpb@gmail.com>, Mahipal <mahipal.27@gov.in>, Mamta Yadav <mamtayadav.edu@nic.in>, Himanshu Dwivedi <rd-nmpb@govcontractor.in>

Sir/Madam,

Please find enclosed Lok Sabha Unstarred Question No. 1862 for 02/08/2024 regarding 'Research and Development of Medicinal Plants'. It is requested that the part-wise information of the above said question may kindly be furnished to the undersigned in hard as well as soft copy in MSWORD format (Email: dr.bidhan@gov.in / rd-nmpb@govcontractor.in) latest by **29/07/2024 positively**. **This may be treated as most urgent.**

From: "Dr.Bidhan Mahajon" <dr.bidhan@gov.in>

To: "Dr(Mr) Himanshu Pathak" <dg.icar@nic.in>, "Ashwani Kumar" <jsadmn-agri@gov.in>, "Chandra Prakash Goyal" <cpgoyal@nic.in>, "Director General CSIR" <dg@csir.res.in>, "Director General CSIR" <dgcsir@csir.res.in>, "Secretary DSIR" <secy-dsir@gov.in>, "DG ICMR" <secy-dg@icmr.gov.in>, "Rabinarayan Acharya" <dg-ccras@nic.in>, ccrhindia@gmail.com, unanimedicine@gmail.com, ccrschennai@gmail.com, "icmrhqds" <icmrhqds@sansad.nic.in>, "Ms Leena Nandan" <secy-mocf@nic.in>, "Itakpa jigmet" <Itakpa.jigmet@gov.in>, "DBT Bioresource PD" <bioresource-dbt@dbt.nic.in>, "Parliament Cell" <parl@csir.res.in>, ccrh@del3.vsnl.nct.in, ccrhpq@gmail.com, "manish das" <manish.das@icar.gov.in>, "Manoj Bapna" <manojb12365-cgo@gov.in>, "Renu sharma" <renu.sharma16@gov.in>, "parliamentreply ccras" <parliamentreply.ccras@gmail.com>, "A Dhanalakshmi" <a.dhanalakshmi@nic.in>, neifmpasighat@gmail.com, "Technical Section BSI" <tech@bsi.gov.in>, "NationalResearchInstituteforSowaRigpa ResearchOfficer-Incharge" <nrisr-leh@gov.in>

Cc: "Prof. Dr. Mahesh Kumar Dadhich" <cco-nmpb@nic.in>, "Dy. CEO NMPB Mo AYUSH" <dyceo-nmpb@nic.in>, "Murugeswaran R" <dr.murugesw.nmpb@gov.in>, "admn nmpb" <admn.nmpb@gmail.com>, "Mahipal" <mahipal.27@gov.in>, "Mamta Yadav" <mamtayadav.edu@nic.in>, "Himanshu Dwivedi" <rd-nmpb@govcontractor.in>

Sent: Wednesday, July 24, 2024 2:42:21 PM

Subject: Lok Sabha Unstarred Diary No. 3921 for 02/08/2024 regarding 'Research and Development of Medicinal Plants'-reg.

Sir/Madam,

Please find enclosed Lok Sabha Unstarred Diary No. 3921 for 02/08/2024 regarding 'Research and Development of Medicinal Plants'. It is requested that the part-wise information of

the above said question may kindly be furnished to the undersigned in hard as well as soft copy in MSWORD format (Email: dr.bidhan@gov.in / rd-nmpb@govcontractor.in) latest by **25/07/2024** (AN) **positively** . **This may be treated as most urgent.**



--

With Sincere Regards
Dr. Bidhan Mahajon, MD (Ay), Ph.D.
Research Officer (Ayurveda)
National Medicinal Plants Board (NMPB)
Ministry of Ayush
Government of India
Indian Red Cross Society (IRCS)
Annexe Building, 1st & 2nd floor, 1 Red Cross Road, New Delhi-110001



--

With Sincere Regards
Dr. Bidhan Mahajon, MD (Ay), Ph.D.
Research Officer (Ayurveda)
National Medicinal Plants Board (NMPB)
Ministry of Ayush
Government of India
Indian Red Cross Society (IRCS)
Annexe Building, 1st & 2nd floor, 1 Red Cross Road, New Delhi-110001

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341 KB

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873 KB

H-11016/07/2024-25-NMPB-IV
Ministry of AYUSH
National Medicinal Plant Board

1st Floor, IRCS, Annexe Building,
Near Indian Red Cross Society,
Red Cross Road, New Delhi-110001
Date: - 29/07/2024

OFFICE MEMORANDUM

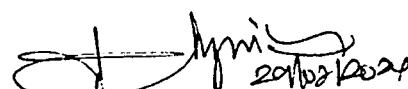
Subject: Lok Sabha Unstarred Question No. †1862 for 02/08/2024 regarding 'Research and Development of Medicinal Plants in Haryana' asked by Shri Satpal Brahamchari-reg.

The undersigned is directed to refer to the above said Lok Sabha Question as reproduced hereunder:

Will the Minister of Ayush be pleased to state:

- (a) whether the Government has set up any research centres to promote research and development of medicinal plants in the country, State/UT-wise;
- (b) if so, the details thereof, State/UT-wise;
- (c) whether the Government proposes to set up any research centre in Haryana particularly in Sonapat Lok Sabha Constituency;
- (d) if so, the details thereof alongwith the projects being run with respect of medicinal plants in this regard; and
- (e) if not, the reasons therefor?

2. It is requested that the part-wise information of the above said question may kindly be furnished to the undersigned in hard as well as soft copy in MSWORD format along with (Email: dr.bidhan@gov.in / rd-nmpb@govcontractor.in) latest by today 29/07/2024 (AN) positively. This may be treated as **MOST URGENT**.


(Dr. R. Murugeswaran)
Deputy Adviser (MPs)

To

- 1) Adv. (MN)/Adv. (KU)/ Adv. (SAD)/ Adv. (MAQ)/DDG (SP)
- 2) Dir (SRKV)/Dir (VS)/ Dir (DK)/ Dir (RB)/ Dir (VS)/ DS(YVS)
- 3) US(AB)/US(MLM)/ US(ASK)/ US(ST)/ DD(Y&N)
- 4) Asst. Adv. (Dr. Rachana)/ Asst. Adv. (RS)/ Asst. Adv. (MKP)
- 5) Ayurveda Section/ Homoeopathy Section/ Siddha & Unani Section/NAM section/ IEC section

Research and Development of Medicinal Plants in Haryana

†1862 Shri Satpal Brahamchari:

Will the Minister of AYUSH

आयुष मंत्री

be pleased to state:

(a) whether the Government has set up any research centres to promote research and development of medicinal plants in the country, State/UT-wise;

(b) if so, the details thereof, State/UT-wise;

(c) whether the Government proposes to set up any research centre in Haryana particularly in Sonipat Lok Sabha Constituency;

(d) if so, the details thereof alongwith the projects being run with respect of medicinal plants in this regard; and

(e) if not, the reasons therefor?

Promotion of Mission Vatsalya

1863 Shri Basavaraj Bommai:
Shri Balya Mama Suresh Gopinath Mhatre:
Shri Vijay Kumar Dubey:
Shri Ramvir Singh Bidhuri:
Smt. Smita Uday Wagh:
Shri Bhartruhari Mahtab:
Shri Sukanta Kumar Panigrahi:
Shri P C Mohan:
Smt. Himadri Singh:
Shri Pradeep Kumar Singh:
Shri Biplab Kumar Deb:
Dr. Sanjay Jaiswal:

Will the Minister of WOMEN AND CHILD DEVELOPMENT

महिला और बाल विकास मंत्री

be pleased to state:

(a) the details of the steps taken by the Government to promote Mission Vatsalya;

(b) the number of children registered under the said Mission, State/UT-wise specially Maharashtra;

(c) the details of changes found under this Mission since its inception; and

(d) the details of the funds allocated and spent under the Mission till date?

Comprehensive Law Courses

1864 Shri Dushyant Singh:

Will the Minister of LAW AND JUSTICE

विधि और न्याय मंत्री

be pleased to state:

(a) whether the Government is overseeing the curriculum of the law courses across country ensuring comprehensive inclusion of the emerging areas in the curriculum, and taking steps to make law courses more practical;

●
Re: Lok Sabha Unstarred Question No. 1862 for 02/08/2024 regarding 'Research and Development of Medicinal Plants'-reg.

From : Technical Section BSI Wed, Jul 31, 2024 05:53 PM
<tech@bsi.gov.in> 2 attachments

Subject : Re: Lok Sabha
Unstarred Question No.
1862 for 02/08/2024
regarding 'Research
and Development of
Medicinal Plants'-reg.

To : Dr.Bidhan Mahajon
<dr.bidhan@gov.in>,
Himanshu Dwivedi <rd-
nmpb@govcontractor.in
>, Nameeta Prasad
<nameeta.prasad@gov.
in>, sobsi2012
<sobsi2012@gmail.com
>

Cc : Dr Sudhansu Sekhar
Dash
<ssdash@bsi.gov.in>,
Umeshkumar L. Tiwari
<ukltiwari@bsi.gov.in>

Sir/Madam,

With reference to the email received on 29.07.2024 on the Lok Sabha Unstarred Question No. 1862 for 02/08/2024 regarding 'Research and Development of Medicinal Plants', please find herewith the signed copy of the reply from BSI for your kind perusal.

Thanking You

.....

Technical Section
Botanical Survey of India, HQ
Salt Lake City, Kolkata - 700 064

Emails: *tech@bsi.gov.in ; tech.bsi2021@gmail.com*

From: "Dr.Bidhan Mahajon" <dr.bidhan@gov.in>
To: "Dr(Mr) Himanshu Pathak" <dg.icar@nic.in>, "Ashwani Kumar" <jsadmn-agri@gov.in>, "Chandra Prakash Goyal" <cpgoyal@nic.in>, "Director General CSIR" <dg@csir.res.in>, "Director General CSIR" <dgcsir@csir.res.in>, "Secretary DSIR" <secy-dsir@gov.in>, "DG ICMR" <secy-dg@icmr.gov.in>, "Rabinarayan Acharya" <dg-ccras@nic.in>, ccrhindia@gmail.com, unanimedicine@gmail.com, ccscrchennai@gmail.com, "icmrhqds" <icmrhqds@sansad.nic.in>, "Ms Leena Nandan" <secy-moef@nic.in>, "Itakpa jigmet" <Itakpa.jigmet@gov.in>, "DBT Bioresource PD" <bioresource-dbt@dbt.nic.in>, "Parliament Cell" <parl@csir.res.in>, ccrh@del3.vsnl.net.in, ccrhpq@gmail.com, "manish das" <manish.das@icar.gov.in>, "Manoj Bapna" <manojb12365-cgo@gov.in>, "Renu sharma" <renu.sharma16@gov.in>, "parliamentreply ccras" <parliamentreply.ccras@gmail.com>, "A Dhanalakshmi" <a.dhanalakshmi@nic.in>, neifmpasighat@gmail.com, "Technical Section BSI" <tech@bsi.gov.in>, "NationalResearchInstituteforSowaRigpa ResearchOfficer-Incharge" <nrisr-leh@gov.in>
Cc: "Prof. Dr. Mahesh Kumar Dadhich" <ceo-nmpb@nic.in>, "Dy. CEO NMPB Mo AYUSH" <dyceo-nmpb@nic.in>, "Murugeswaran R" <dr.murugesw.nmpb@gov.in>, "admn nmpb" <admn.nmpb@gmail.com>, "Mahipal" <mahipal.27@gov.in>, "Mamta Yadav" <mamtayadav.edu@nic.in>, "Himanshu Dwivedi" <rd-nmpb@govcontractor.in>
Sent: Monday, July 29, 2024 2:17:01 PM

Subject: Re: Lok Sabha Unstarred Question No. 1862 for 02/08/2024 regarding 'Research and Development of Medicinal Plants'-reg.

Sir/Madam,

Please find enclosed **Lok Sabha Unstarred Question No. 1862 for 02/08/2024 regarding 'Research and Development of Medicinal Plants'**. It is requested that the part-wise information of the above said question may kindly be furnished to the undersigned in hard as well as soft copy in MSWORD format (Email: dr.bidhan@gov.in / rd-nmpb@govcontractor.in) latest by **29/07/2024 positively . This may be treated as most urgent.**

From: "Dr.Bidhan Mahajon" <dr.bidhan@gov.in>

To: "Dr(Mr) Himanshu Pathak" <dg.icar@nic.in>, "Ashwani Kumar" <jsadmn-agri@gov.in>, "Chandra Prakash Goyal" <cpgoyal@nic.in>, "Director General CSIR" <dg@csir.res.in>, "Director General CSIR" <dgcsir@csir.res.in>, "Secretary DSIR" <secy-dsir@gov.in>, "DG ICMR" <secy-dg@icmr.gov.in>, "Rabinarayan Acharya" <dg-ccras@nic.in>, ccrhindia@gmail.com, unanimedicine@gmail.com, ccrschennai@gmail.com, "icmrhqds" <icmrhqds@sansad.nic.in>, "Ms Leena Nandan" <secy-moef@nic.in>, "Itakpa jigmet" <Itakpa.jigmet@gov.in>, "DBT Bioresource PD" <bioresource-dbt@dbt.nic.in>, "Parliament Cell" <parl@csir.res.in>, ccrh@del3.vsnl.net.in, ccrhpq@gmail.com, "manish das" <manish.das@icar.gov.in>, "Manoj Bapna" <manojb12365-cgo@gov.in>, "Renu sharma" <renu.sharma16@gov.in>, "parliamentreply ccras" <parliamentreply.ccras@gmail.com>, "A Dhanalakshmi" <a.dhanalakshmi@nic.in>, neifmpasighat@gmail.com, "Technical Section BSI" <tech@bsi.gov.in>, "NationalResearchInstituteForSowaRigpa ResearchOfficer-Incharge" <nrisr-leh@gov.in>

Cc: "Prof. Dr. Mahesh Kumar Dadhich" <ceo-nmpb@nic.in>, "Dy. CEO NMPB Mo AYUSH" <dyceo-nmpb@nic.in>, "Murugeswaran R" <dr.murugesw.nmpb@gov.in>, "admn nmpb" <admn.nmpb@gmail.com>, "Mahipal" <mahipal.27@gov.in>,

"Mamta Yadav" <mamtayadav.edu@nic.in>, "Himanshu Dwivedi" <rd-nmpb@govcontractor.in>

Sent: Wednesday, July 24, 2024 2:42:21 PM

Subject: Lok Sabha Unstarred Diary No. 3921 for 02/08/2024 regarding 'Research and Development of Medicinal Plants'-reg.

Sir/Madam,

Please find enclosed **Lok Sabha Unstarred Diary No. 3921 for 02/08/2024 regarding "Research and Development of Medicinal Plants"**. It is requested that the part-wise information of the above said question may kindly be furnished to the undersigned in hard as well as soft copy in MSWORD format (Email: dr.bidhan@gov.in / rd-nmpb@govcontractor.in) latest by **25/07/2024** (AN) **positively . This may be treated as most urgent.**

--

With Sincere Regards
Dr. Bidhan Mahajon, MD (Ay), Ph.D.
Research Officer (Ayurveda)
National Medicinal Plants Board (NMPB)
Ministry of Ayush
Government of India
Indian Red Cross Society (IRCS)
Annexe Building, 1st & 2nd floor, 1 Red Cross Road, New Delhi-110001



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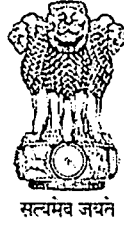
With Sincere Regards
Dr. Bidhan Mahajon, MD (Ay), Ph.D.
Research Officer (Ayurveda)
National Medicinal Plants Board (NMPB)
Ministry of Ayush
Government of India
Indian Red Cross Society (IRCS)
Annexe Building, 1st & 2nd floor, 1 Red Cross Road, New Delhi-110001



1862.pdf

412 KB





भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDINGपाँचवाँ और छठा तल / 5TH & 6TH FLOOR

डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I

साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI-286/1 (Parl.) / 2024 -Tech.

दिनांक/Date : 29th July-2024

सेवा में / To

The Secretary

Ministry of Environment, Forest and Climate Change

Indira Paryavaran Bhawan, Jor Bagh Road

New Delhi - 110003

*(Kind attention: Dr. Priti Singh, Scientist D, MoEF&CC, New Delhi)***Subject:** Lok Sabha Admitted Unstarred Question No.716 for 26/07/2024 regarding 'Research on Medicinal Plants'-reg.

महोदया/ Madam,

With reference to your email dated 29.07.2024 on the above mentioned subject, I am directed to furnish herewith the following information for your kind perusal and necessary action as follows:

a) Whether the Government has set up any research and development on medicinal plants in the country, State/UT-wise;

Answer: BSI is mandated for survey of wild plant resources of the country through survey, exploration, documentation of the wild plant resources of the country. Besides, under *Ex-situ* conservation, BSI scientists collect and conserve the Threatened plants including Medicinal plants in its botanical gardens spread across different biogeographical regions of India. Presently various Research Institutes/ Centres/ units of different Research councils under Ministry of AYUSH, Govt. of India have been established and engaged in Medicinal and Aromatic Plants across the country.

1. NMPB, Ministry of AYUSH, under its scheme on 'conservation, Development and Sustainable management of Medicinal and Aromatic Plants' provides project based on financial support to carry out research activities on various aspects of Medicinal and Aromatic Plants of Government
2. CSIR and ICAR conduct basic and applied research on medicinal plants.
3. BSI looks after its botanical garden all around the country and executes *ex-situ* conservation through collection, introduction, multiplication and conservation of important plants including Medicinal and Aromatic Plants.

4. Through ABG scheme BSI funds different colleges and universities across India to conserve Medicinal and Aromatic Plants in their Botanic Garden.

b) If so, the details thereof, State/UT-wise;

Answer: This question does not pertain to BSI.

c) Whether the Government proposes to set up any research centre in Haryana particularly in Sonipat Lok Sabha Constituency

Answer: This question does not pertain to BSI.

d) if so, the details thereof alongwith the projects being run with respect of medicinal plants in this regard; and

Answer: This question does not pertain to BSI.

e) If not, the reasons therefore?

Answer: This question does not pertain to BSI.

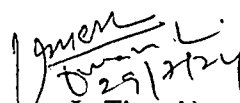
This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय/Yours sincerely


(उमेशकुमार ल. तिवारी / Umeshkumar L. Tiwari)

वैज्ञानिक डी / Scientist 'D'

For, (प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

Copy to: Dr. R. Murugeswaran, Deputy Adviser (MPs), National Medicinal Plant Board, 1st Floor, IRCS, Annexe Building, Near Indian Red Cross Society, Red Cross Road, New Delhi - 110001 (Emails: romps.nmpb@gov.in; info-nmpb@nic.in; kavita.tyagi@nic.in) for information.

EW 096159670 IN

TECHNICAL SECTION
DISPATCHED
No. T-1462-1463
Date: 29.07.2024

2343 - 2344
प्रेषित / DESPATCHED
30/7/24

Mail

Compose



Chat

Inbox 2,371

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Drafts 32

Categories

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Updates 3,844

Forums

Promotions 1

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Labels

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FRLHT documents 28

Honey 7

IMP Documents&C... 5

IT-Policy 32

Journals 2

make my trip

NSDI

Fwd: Lok Sabha Unstarred Question No. 1862 for 02/08/2024 regarding

Technical Section BSI
to Umeshkumar, meDr. Sudhir B.
put up.Vijay
29/7/24Pranav
29/7/24Technical Section
Botanical Survey of India, HQ
Salt Lake City, Kolkata - 700 064
Emails: tech@bsi.gov.in ; tech.bsi2021@gmail.com

From: "Dr. Priti Singh" <priti.singh@gov.in>
To: "Technical Section BSI" <tech@bsi.gov.in>, "Ashiho Asosii" <aamap@bsi.gov.in>, "Dr Sudhansu Sekhar Dash" <ds@bsi.gov.in>
Cc: "Ved Prakash Mishra" <mishra.vp@gov.in>, "Dr.Bidhan Mahajon" <dr.bidhan@gov.in>
Sent: Monday, July 29, 2024 9:46:03 AM
Subject: Fwd: Lok Sabha Unstarred Question No. 1862 for 02/08/2024 regarding 'Research and Development of Medi

Sir,

Kindly refer to trailing mail.
BSI is requested to provide inputs directly to MoA.

Best Regards,
Dr. Priti Singh
Scientist 'D' (Joint Director)
Ministry of Environment, Forest & Climate Change
Government of India, New Delhi
Phone: 011-20819228
Intercom:5533

From: "Parliament Section" <parsec-mef@nic.in>
To: "Ved Prakash Mishra" <mishra.vp@gov.in>, "Dr. Priti Singh" <priti.singh@gov.in>
Cc: "Naresh Pal Gangwar" <asrpg.mefcc@gov.in>, "Mr Satyajit Mishra" <satyajit.mishra@nic.in>, "rakesh sharma67" <ak.sharma79@nic.in>
Sent: Monday, July 29, 2024 9:35:11 AM
Subject: Fwd: Lok Sabha Unstarred Question No. 1862 for 02/08/2024 regarding 'Research and Development of Medi



Mail

Compose

Inbox 2,370

Chat

Starred

Snoozed

Meet

Important

Sent

Drafts 32

Categories

Social

Updates 3,844

Forums

Promotions 1

More

Labels

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BSI Itanagar 64

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FRLHT documents 28

Honey 7

IMP Documents&C... 5

IT-Policy 32

Journals 2

make my trip

NSDI



Fwd: Lok Sabha Starred Question no. 165 for 02/08/2024 regarding 'A'



Technical Section BSI
to me

Technical Section

Botanical Survey of India, HQ

Salt Lake City, Kolkata - 700 064

Emails: tech@bsi.gov.in ; tech.bsi2021@gmail.com

From: "Dr.Bidhan Mahajan" <dr.bidhan@gov.in>

To: "Dr(Mr) Himanshu Pathak" <dg.icar@nic.in>, "Ashwani Kumar" <jsadmn-agri@gov.in>, "Chandra Prakash Goyal" <secy-dsir@gov.in>, "DG ICMR" <secy-dg@icmr.gov.in>, "Rabinarayan Acharya" <dg-ccras@nic.in>, ccrhindia@gmail.com, moef@nic.in, "Itakpa jigmet" <itakpa.jigmet@gov.in>, "DBT Bioresource PD" <bioresource-dbt@dbt.nic.in>, "Parliament Cell" <parliamentreply@ccra.gov.in>, "Renu sharma" <renu.sharma16@gov.in>, "National Research Institute for Sowa Rigpa Research Officer-Incharge" <secretary@nrasminda.org>, "National Research Institute for Sowa Rigpa Research Officer-Incharge" <secy-nrip@gov.in>, "Dy. CEO NMPB Mo AYUSH" <dyceo-nmpb@nic.in>, "M. Yadav" <mamlayadav.edu@nic.in>, "Himanshu Dwivedi" <rd-nmpb@govcontractor.in>, "SAURABH SHARMA" <saurabhsharma@nic.in>

Sent: Monday, July 29, 2024 10:53:09 AM

Subject: Re: Lok Sabha Starred Question no. 165 for 02/08/2024 regarding 'AYUSH Research in Ayurveda college'-re

Most urgent Parlia

Sir/Madam,

Please find enclosed Lok Sabha Starred Qestion no. 165 for 02/08/20 information and supplementary note of the above said question may kindly (Email: dr.bidhan@gov.in / rd-nmpb@govcontractor.in) latest by 29/07/2024 (FN) p

From: "Dr.Bidhan Mahajan" <dr.bidhan@gov.in>

To: "Dr(Mr) Himanshu Pathak" <dg.icar@nic.in>, "Ashwani Kumar" <jsadmn-agri@gov.in>, "Chandra Prakash Goyal" <secy-dsir@gov.in>, "DG ICMR" <secy-dg@icmr.gov.in>, "Rabinarayan Acharya" <dg-ccras@nic.in>, ccrhindia@gmail.com, moef@nic.in, "Itakpa jigmet" <itakpa.jigmet@gov.in>, "DBT Bioresource PD" <bioresource-dbt@dbt.nic.in>, "Parliament Cell" <parliamentreply@ccra.gov.in>, "Renu sharma" <renu.sharma16@gov.in>, "National Research Institute for Sowa Rigpa Research Officer-Incharge" <secretary@nrasminda.org>, "National Research Institute for Sowa Rigpa Research Officer-Incharge" <secy-nrip@gov.in>, "Dy. CEO NMPB Mo AYUSH" <dyceo-nmpb@nic.in>, "M. Yadav" <mamlayadav.edu@nic.in>, "Himanshu Dwivedi" <rd-nmpb@govcontractor.in>, "SAURABH SHARMA" <saurabhsharma@nic.in>

Yes, Sir, presently various Research Institute / Central Units of different Research Councils under Min. Ayush, Govt have been established & engaged in MAPs across country.

① NMJB, MoAyush under its Scheme on 'Conservation, Development and Sustainable Management of MAPs' provides project based financial support to carry out research activities on various aspects of MAPs of Government.

② CSIR & IICAR conduct basic & applied research on medicinal plants.

③ BSF ~~is~~ looks after its botanical gardens all around country & executes ~~the~~ conservation of medicinal plants through collection, introduction, multiplication & conservation of important indigenous wild plants including MAPs.

④ Through ABC scheme BSF find different colleges & universities across India to conserve MAPs in their ^{botanical} garden.

6-Q - not pertaining to BSF.

Research and Development of Medicinal Plants in Haryana

†1862 Shri Satpal Brahamchari:

Will the Minister of AYUSH

आयुष मंत्री

be pleased to state:

(a) whether the Government has set up any research centres to promote research and development of medicinal plants in the country, State/UT-wise;

(b) if so, the details thereof, State/UT-wise;

(c) whether the Government proposes to set up any research centre in Haryana particularly in Sonapat Lok Sabha Constituency;

(d) if so, the details thereof alongwith the projects being run with respect of medicinal plants in this regard; and

(e) if not, the reasons therefor?

Promotion of Mission Vatsalya

1863 Shri Basavaraj Bommai:
Shri Balya Mama Suresh Gopinath Mhatre:
Shri Vijay Kumar Dubey:
Shri Ramvir Singh Bidhuri:
Smt. Smita Uday Wagh:
Shri Bhartruhari Mahtab:
Shri Sukanta Kumar Panigrahi:
Shri P C Mohan:
Smt. Himadri Singh:
Shri Pradeep Kumar Singh:
Shri Biplab Kumar Deb:
Dr. Sanjay Jaiswal:

Will the Minister of WOMEN AND CHILD DEVELOPMENT

महिला और बाल विकास मंत्री

be pleased to state:

(a) the details of the steps taken by the Government to promote Mission Vatsalya;

(b) the number of children registered under the said Mission, State/UT-wise specially Maharashtra;

(c) the details of changes found under this Mission since its inception; and

(d) the details of the funds allocated and spent under the Mission till date?

Comprehensive Law Courses

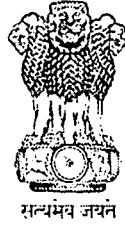
1864 Shri Dushyant Singh:

Will the Minister of LAW AND JUSTICE

विधि और न्याय मंत्री

be pleased to state:

(a) whether the Government is overseeing the curriculum of the law courses across country ensuring comprehensive inclusion of the emerging areas in the curriculum, and taking steps to make law courses more practical;



भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDINGपाँचवाँ और छठा तल / 5TH & 6TH FLOOR

डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I

साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA – 700064

Tel.: (033) 2321 4050 | Tech. Section | E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI-286/1 (Parl.) / 2024 -Tech.

दिनांक/Date : 23 July-2024

सेवा में / To

The Secretary

Ministry of Environment, Forest and Climate Change

Indira Paryavaran Bhawan, Jor Bagh Road

New Delhi - 110003

*(Kind attention: Dr. Priti Singh, Scientist D, MoEF&CC, New Delhi)***Subject:** Lok Sabha Admitted Unstarred Question No.716 for 26/07/2024 regarding 'Research on Medicinal Plants'-reg.

महोदया/ Madam,

With reference to your email, dated 22nd July, 2024 regarding 'Research on Medicinal Plants', I am directed to furnish herewith the following information for your kind perusal and necessary action as follows:

- a) **Whether the Government has established /proposes to establish any research centres to promote research and development on medicinal plants in the country including North West Bengal;**

Answer: BSI is mandated for survey of wild plant resources of the country through survey, exploration, documentation of the wild plant resources of the country. Besides, under *Ex-situ* conservation, BSI scientists collect and conserve the Threatened plants including Medicinal plants in its botanical gardens spread across different biogeographical regions of India. There are various research organizations such as NMPB, CIMAP, Ministry of AYUSH etc. are exclusively working on the medicinal plants conservation and cultivation through various schemes. Therefore the above question does not come under the purview of BSI.

- b) **If so, the details of thereof, State/UT-wise along with the details of ongoing projects pertaining to medicinal plants and if not, the reason therefore;**

Answer: This question does not pertain to BSI.

- c) **Whether the Government has conducted any survey regarding availability of medicinal plants in the Kolli Hills region of Namakkal district of Tamil Nadu and if so, the details thereof;**

Answer: This question does not pertain to BSI.

a) If so, the details thereof along with the details of ongoing projects pertaining to medicinal plants;

Answer: This question does not pertain to BSI.

d) Whether the Government has any plan to set up Herbarium and Museum based on medicinal plants at Kolli Hills region of Namakkal district of Tamil Nadu and if so, the details thereof

Answer: Not applicable to BSI.

This issues with the approval of Director (i/c), Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय/Yours sincerely

(उमेशकुमार ल. तिवारी / Umeshkumar L. Tiwari)

वैज्ञानिक डी / Scientist 'D'

For, (प्रभारी, तकनीकी अनुभाग / In- charge, Tech. Section)

Copy to: Dr. R. Murugeswaran, Deputy Adviser (MPs), National Medicinal Plant Board, 1st Floor, IRCS, Annexe Building, Near Indian Red Cross Society, Red Cross Road, New Delhi - 110001 (Emails: romps.nmpb@gov.in; info-nmpb@nic.in; kavita.tyagi@nic.in) for information.

TECHNICAL SECTION
DISPATCHED
No. T-1382-1383
Date: 23.07.2024

2296-2297
प्रेषित / DESPATCHED
26/7/24

Email**Technical Section BSI**

Re: Revised Lok Sabha Unstarred Question No. 716 for 26/07/2024 regarding "Research on Medicinal Plants'-reg.

From : Technical Section BSI Wed, Jul 24, 2024 04:34 PM
<tech@bsi.gov.in> 1 attachment

Subject : Re: Revised Lok Sabha
Unstarred Question No.
716 for 26/07/2024
regarding "Research on
Medicinal Plants'-reg.

To : Himanshu Dwivedi <rd-
nmpb@govcontractor.in
>, Dr.Bidhan Mahajon
<dr.bidhan@gov.in>,
Himanshu Dwivedi <rd-
nmpb@govcontractor.in
>, sobsi2012
<sobsi2012@gmail.com
>

Cc : Dr Sudhansu Sekhar
Dash
<ssdash@bsi.gov.in>,
Umeshkumar L. Tiwari
<ukltiwari@bsi.gov.in>

Sir/Madam,

With reference to the email received on 23.07.2024 on the Revised Lok Sabha Unstarred Question No. 716 for 26/07/2024 regarding "Research on Medicinal Plants', please find herewith the signed copy of the reply from BSI for your kind perusal.
Thanking You

.....

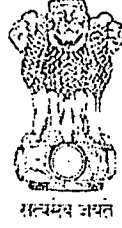
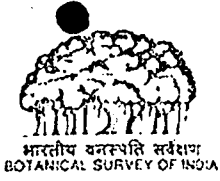
Technical Section
Botanical Survey of India, HQ
Salt Lake City, Kolkata - 700 064

Emails: *tech@bsi.gov.in ; tech.bsi2021@gmail.com*

From: "Himanshu Dwivedi" <rd-nmpb@govcontractor.in>
To: "Technical Section BSI" <tech@bsi.gov.in>
Cc: "Prof. Dr. Mahesh Kumar Dadhich" <ceo-nmpb@nic.in>, "Dy. CEO NMPB Mo AYUSH" <dyceo-nmpb@nic.in>, "Murugeswaran R" <dr.murugesw.nmpb@gov.in>, "admn nmpb" <admn.nmpb@gmail.com>, "Mahipal" <mahipal.27@gov.in>, "Mamta Yadav" <mamtayadav.edu@nic.in>, "Himanshu Dwivedi" <rd-nmpb@govcontractor.in>
Sent: Tuesday, July 23, 2024 10:59:58 AM
Subject: Revised Lok Sabha Unstarred Question No. 716 for 26/07/2024 regarding "Research on Medicinal Plants"-reg.

Sir/Madam,

Please refer to previous mail regarding the Lok Sabha Unstarred Question No. 716 for 26/07/2024 "Research on Medicinal Plants". **As directed by Secretary Parliament please find enclose revised question enclosed herewith.** It is also requested that the part-wise information of the above said question may kindly be furnished to the undersigned in hard as well as soft copy in MSWORD format (Email: dr.bidhan@gov.in / rd-nmpb@govcontractor.in) latest by **23/07/2024 (FN) positively. This may be treated as most urgent.**



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA
सौ.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX
तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING
पाँचवाँ और छठा तल / 5TH & 6TH FLOOR
डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I
साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064
Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI-286/1 (Parl.) / 2024 -Tech./ 1382

दिनांक/Date : 23 July-2024

सेवा में / To

✓ The Secretary

Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan, Jor Bagh Road
New Delhi - 110003

(Kind attention: Dr. Priti Singh, Scientist D, MoEF&CC, New Delhi)

Subject: Lok Sabha Admitted Unstarred Question No.716 for 26/07/2024 regarding 'Research on Medicinal Plants'-reg.

महोदया/ Madam,

With reference to your email, dated 22nd July, 2024 regarding 'Research on Medicinal Plants', I am directed to furnish herewith the following information for your kind perusal and necessary action as follows:

- a) Whether the Government has established /proposes to establish any research centres to promote research and development on medicinal plants in the country including North West Bengal;

Answer: BSI is mandated for survey of wild plant resources of the country through survey, exploration, documentation of the wild plant resources of the country. Besides, under *Ex-situ* conservation, BSI scientists collect and conserve the Threatened plants including Medicinal plants in its botanical gardens spread across different biogeographical regions of India. There are various research organizations such as NMPB, CIMAP, Ministry of AYUSH etc. are exclusively working on the medicinal plants conservation and cultivation through various schemes. Therefore the above question does not come under the purview of BSI.

- b) If so, the details of thereof, State/UT-wise along with the details of ongoing projects pertaining to medicinal plants and if not, the reason therefore;

Answer: This question does not pertain to BSI.

- c) Whether the Government has conducted any survey regarding availability of medicinal plants in the Kolli Hills region of Namakkal district of Tamil Nadu and if so, the details thereof;

Answer: This question does not pertain to BSI.

a) *If so, the details thereof along with the details of ongoing projects pertaining to medicinal plants;*

Answer: This question does not pertain to BSI.

d) *Whether the Government has any plan to set up Herbarium and Museum based on medicinal plants at Kolli Hills region of Namakkal district of Tamil Nadu and if so, the details thereof*

Answer: Not applicable to BSI.

This issues with the approval of Director (i/c), Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय/Yours sincerely

(उमेशकुमार ल. तिवारी / Umeshkumar L. Tiwari)

वैज्ञानिक डी / Scientist 'D'

For, (प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

Copy to: Dr. R. Murugeswaran, Deputy Adviser (MPs), National Medicinal Plant Board, 1st Floor, IRCS, Annexe Building, Near Indian Red Cross Society, Red Cross Road, New Delhi - 110001 (Emails: romps.nmpb@gov.in; info-nmpb@nic.in; kavita.tyagi@nic.in) for information.

Email**Technical Section BSI**

Revised Lok Sabha Unstarred Question No. 716 for 26/07/2024 regarding "Research on Medicinal Plants"-reg.

From : Dr.Bidhan Mahajon
<dr.bidhan@gov.in>

Mon, Jul 22, 2024 02:09 PM

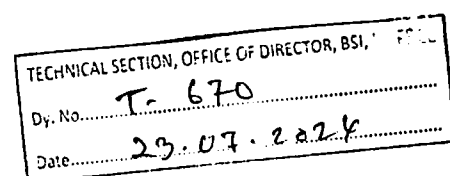
1 attachment

Subject : Revised Lok Sabha
Unstarred Question No.
716 for 26/07/2024
regarding "Research on
Medicinal Plants'-reg.

Dr. Snellu N. P. P
23/7/24

To : Dr(Mr) Himanshu
Pathak
<dg.icar@nic.in>,
Ashwani Kumar
<jsadmn-agri@gov.in>,
Chandra Prakash Goyal
<cpgoyal@nic.in>,
Director General CSIR
<dg@csir.res.in>,
Director General CSIR
<dgcsir@csir.res.in>,
Secretary DSIR <secy-
dsir@gov.in>, DG ICMR
<secy-dg@icmr.gov.in>,
Rabinarayan Acharya
<dg-ccras@nic.in>,
ccrhindia@gmail.com,
unanimedicine@gmail.c
om,
ccrschennai@gmail.com
, icmrhqds

23/7/2024



<icmrhqds@sansad.nic.in>, Ms Leena Nandan
<secy-moef@nic.in>, Itakpa jigmet
<Itakpa.jigmet@gov.in>, DBT Bioresource PD
<bioresource-dbt@dbt.nic.in>, Parliament Cell
<parl@csir.res.in>, ccrh@del3.vsnl.net.in,
ccrhpq@gmail.com, manish das
<manish.das@icar.gov.in>, Manoj Bapna
<manojb12365-cgo@gov.in>, Renu sharma
<renu.sharma16@gov.in>, parliamentreply
ccras
<parliamentreply.ccras@gmail.com>, madhudikshit@thsti.res.
in, A Dhanalakshmi
<a.dhanalakshmi@nic.in>, drgurmet@rediffmail.com,
neifmpasighat@gmail.com, Technical Section
BSI <tech@bsi.gov.in>

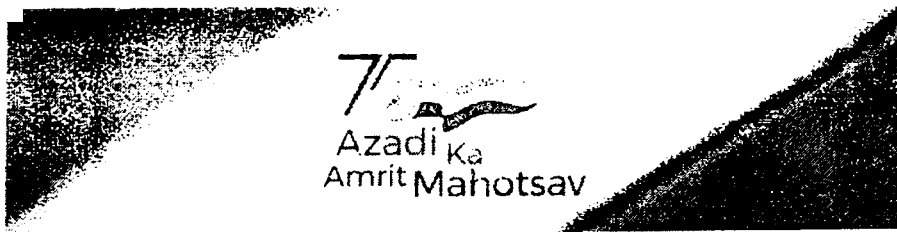
Cc : Prof. Dr. Mahesh Kumar Dadhich <ceo-nmpb@nic.in>, Dy. CEO

NMPB Mo AYUSH
<dyceo-nmpb@nic.in>,
Murugeswaran R
<dr.murugesw.nmpb@g
ov.in>, admn nmpb
<adm.nmpb@gmail.co
m>, Mahipal
<mahipal.27@gov.in>,
Mamta Yadav
<mamtayadav.edu@nic.
in>, Himanshu Dwivedi
<rd-
nmpb@govcontractor.in
>

Sir/Madam,

Please refer to previous mail regarding the Lok Sabha Unstarred Question No. 716 for 26/07/2024 "Research on Medicinal Plants'. **As directed by Secretary Parliament please find enclosed revised question enclosed herewith.** It is also requested that the part-wise information of the above said question may kindly be furnished to the undersigned in hard as well as soft copy in MSWORD format (Email: dr.bidhan@gov.in / rd-nmpb@govcontractor.in) latest by **22/07/2024 (AN) positively. This may be treated as most urgent.**

--
With Sincere Regards
Dr. Bidhan Mahajon, MD (Ay), Ph.D.
Research Officer (Ayurveda)
National Medicinal Plants Board (NMPB)
Ministry of Ayush
Government of India
Indian Red Cross Society (IRCS)
Annexe Building, 1st & 2nd floor, 1 Red Cross Road,
New Delhi-110001



— Revised 716 Ministries.pdf
667 KB

H-11016/01/2024-25-NMPB-IV
Ministry of AYUSH
National Medicinal Plant Board

1st Floor, IRCS, Annexe Building,
Near Indian Red Cross Society,
Red Cross Road, New Delhi-110001
Date: - 22/07/2024

OFFICE MEMORANDUM

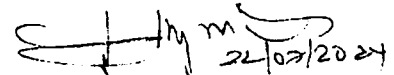
Subject: Lok Sabha Admitted Unstarred Question No. 716 for 26/07/2024 regarding 'Research on Medicinal Plants'.

The undersigned is directed to refer to the above said Lok Sabha Question as reproduced hereunder:

Will the Minister of Ayush be pleased to state:

- (a) whether the Government has established/proposes to establish any research centres to promote research and development on medicinal plants in the country including North West Bengal;
- (b) if so, the details of thereof. State/UT-wise along with the details of ongoing projects pertaining to medicinal plants and if not, the reason therefor;
- (c) whether the Government has conducted any survey regarding availability of medicinal plants in the Kolli Hills region of Namakkal district of Tamil Nadu and if so, the details thereof;
- (d) whether the Government has any plan to set up Herbarium and Museum based on medicinal plants at Kolli Hills region of Namakkal district of Tamil Nadu and if so, the details thereof?

2. It is requested that the part-wise information of the above said question may kindly be furnished to the undersigned in hard as well as soft copy in MSWORD format alongwith (Email: dr.bidhan@gov.in / rd-nmpb@govcontractor.in) latest by tomorrow 22/07/2024 (AN) positively. This may be treated as **MOST URGENT**.


(Dr. R Murugeswaran)
Deputy Adviser (MPs)

To.

- 1) Secretary (DARE) & Directory General (ICAR). Krishi Bhawan, New Delhi – 110001. (Tel:01123382629), 23386711; Email: dg.icar@nic.in
- 2) Secretary (EF&CC), Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jorbagh Road New Delhi – 110003, Email: secy-moef@nic.in, Itakpa.jigmet@gov.in
- 3) Joint Secretary, Department of Science & Technology, Technology Bhawan, New Mehrauli Road, New Delhi – 110016 (Tel: 011-26516077), Email: anju_bhalla@nic.in
- 4) Joint Secretary (Parliament), Ministry of Agriculture & Farmers Welfare, Krishi Bhawan, Dr.Rajendra Prasad Road, New Delhi – 110001 (Tel: 011-23385595, Email: sthakur@nic.in)

- 5) Joint Secretary, Department of Bio-technology, CGO Complex, Lodhi Road, New Delhi-110003 (Tel: 011-24362982, Email: cpgoyal@nic.in)
- 6) Director General, CSIR, Anusandhan Bhawan, 2 Rafi Ahmed Kidwai Marg, New Delhi 110001 (Tel: 011-23710472, 23717053, Email: dg@csir.res.in, dgesir@csir.res.in, secy-dsir@gov.in, parl@csir.res.in)
- 7) Director General, Indian Council of Medical Research (ICMR), V. Ramalingaswami Bhawan, P.O. Box No. 4911, Ansari Nagar, New Delhi – 110029, India (Tel: 011-26588204, Email: secy-dg@icmr.gov.in) icmrhqds@sansad.nic.in
- 8) Director General, Central Council for Research and Ayurvedic Sciences (CCRAS), 61-65, Institutional Area, Opp. D. Block, Janakpuri, New Delhi – 110058.
- 9) Director General, Central Council for Research in Unani Medicine, 61-65, Institutional Area, Opp. D. Block, Janakpuri, New Delhi – 110058.
- 10) Director General, Central Council for Research in Homeopathy, 61-65, Institutional Area, Opp. D. Block, Janakpuri, New Delhi – 110058.
- 11) Central Council for Research in Siddha, Tambaram Sanatorium, GST Road, Chennai – 600 047, India. Email: ccrschennai@gmail.com
12. Director, Botanical Survey of India CGO Complex, 3rd MSO Building, Block F (5th and 6th Floor), DF Block, Sector I, Salt Lake City, Kolkata - 700 064, hq@bsi.gov.in
13. Director, National Research Institute of Sowa-region, Ladakh – drgurmet@rediffmail.com
14. The North Eastern Institute of Ayurveda & Folk Medicine Research (NEIAFMR), neifmpasighat@gmail.com

Trauma Centre in Dhalai

715 Smt. Kriti Devi Debbarman:

Will the Minister of HEALTH AND FAMILY WELFARE

स्वास्थ्य और परिवार कल्याण मंत्री

be pleased to state:

(a) whether the Government has any proposal to open a trauma hospital or center in Dhalai Parliamentary Constituency of Tripura East; and

(b) if so, the details thereof?

Research on Medicinal Plants

716 Dr. Jayanta Kumar Roy:
Shri Matheswaran V S:

Will the Minister of AYUSH

आयुष मंत्री

be pleased to state:

(a) whether the Government has established research centres to promote research and development on medicinal plants in the country;

(b) if so, the details thereof, State/UT-wise;

(c) whether the Government has conducted any survey to ascertain the availability of medicinal plants in the country and if so, the details thereof including West Bengal;

(d) whether the Government proposes to establish any research centre in West Bengal particularly in North Bengal;

(e) if so, the details thereof along with the details of ongoing projects pertaining to medicinal plants; and

(f) if not, the reasons therefor?

Grants to Tamil Nadu under National Health Mission

717 Dr. D Ravi Kumar:
Shri C N Annadurai:
Shri Navaskani K:
Dr. Thirumaavalavan Tholkappiyan:
Shri Selvam G:
Shri Hibi Eden:
Shri Manish Jaiswal:

Will the Minister of HEALTH AND FAMILY WELFARE

स्वास्थ्य और परिवार कल्याण मंत्री

be pleased to state:

(a) the number of healthcare system that have been set up in the State of Tamil Nadu under National Health Mission (NHM) during the last three years;

(b) the amount of funds allocated to the State of Tamil Nadu under the said Mission during the last three years;

(c) whether the Government has conducted any survey to assess and monitor the effectiveness of Health care system during the progress of National Health Mission (NHM) scheme in Tamil Nadu during the last three years, if so, the details thereof;

Email**Technical Section BSI**

Fwd: Lok Sabha Unstarred Question No. 716 for 26/07/2024 regarding "Research on Medicinal Plants"-reg.

From : Dr. Priti Singh
<priti.singh@gov.in>

Mon, Jul 22, 2024 11:18 AM

3 attachments

Subject : Fwd: Lok Sabha
Unstarred Question No.
716 for 26/07/2024
regarding "Research on
Medicinal Plants'-reg.

To : Technical Section BSI
<tech@bsi.gov.in>, Dr
Sudhansu Sekhar Dash
<ssdash@bsi.gov.in>,
Ashiho Asosii
<aamao@bsi.gov.in>

Cc : Ved Prakash Mishra
<mishra.vp@gov.in>,
Dr.Bidhan Mahajon
<dr.bidhan@gov.in>

Sir

In reference to trailing mail, BSI is requested to provide inputs to the Ministry of Ayush directly under intimation to this Ministry.

Best Regards,

Dr. Priti Singh

Scientist 'D' (Joint Director)

Ministry of Environment, Forest & Climate Change



EW090160253 IN



महोदय / 30.07.2024



भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

मन्त्रालय नयन भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA सी.जी.ओ.

कॉम्प्लेक्स / CGO COMPLEX

तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING पाँचवाँ और छठा तल / 5TH & 6TH

FLOOR डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I

साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI-286/1 (Parl.) / 2021 -Tech.

दिनांक/Date : 24th July 2024

सेवा में / To

The Secretary

Ministry of Environment, Forest and Climate Change

Indira Paryavaran Bhawan, Jor Bagh Road

New Delhi - 110003

(Kind attention: Vibhuti Panjiyar, Under Secretary to the Gov. MoEF&CC, New Delhi)

Subject: Steps to protect Bio diversity and Marine habitats in the country – reg.

Ref: Provisionally admitted Rajya Sabha Unstarred Question Dy no. 834 for answer on 25.07.2024 -reg-

महोदया / Madam,

With reference to the email dated 16.07.2024 received by this office from dated 16.07.2024 from the Under Secretary, Ministry of Environment, Forest & Climate Change in connection to Provisionally admitted Rajya Sabha Unstarred Question Dy no. 834 for answer on 25.07.2024 regarding "Steps to protect Bio diversity and Marine habitats in the country", I am directed to furnish herewith the following information for your kind perusal and necessary action as follows:

a) Whether the government has taken any steps to protect Bio diversity and Marine habitats in the country with particular reference to Tamil Nadu;

Answer: Yes steps taken to protect Bio Diversity and Marine habitats in the Country. Gulf of Mannar Biosphere Reserve is highly protected area for marine biodiversity and marine habitat in Tamil Nadu. After 2004 tsunami, many places of Tamil Nadu coastal areas, low lying seashore areas and fish landing areas were protected with artificial structures.

b) if so the details there of and the funds allocated in the last 5 years Year-wise State-wise;

Answer: At present, no data regarding this is available with BSI. It does not pertain to BSI.

c) the effective measures taken by the government to curb the prevailing issues and problems pertaining to protection and conservation of bio-diversity and Marine habitats in the country; and

Answer: At present, no data regarding this is available with BSI. It does not pertain to BSI.

d) whether the government has signed any agreements with foreign countries and international organisations dealing with Environment and Climate change?

Answer: Not Applicable

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय/Yours sincerely

(उमेशकुमार ल. तिवारी / Umeshkumar L. Tiwari)

वैज्ञानिक डी / Scientist 'D'

For, (प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

2301
26/7/24

TECHNICAL SECTION
DISPATCHED
No. T-1384
Date: 24.07.2024

Email

BSI-786/1 (fwd.)/2021-Tech/1384

Technical Section BSI

**Re: Provisionally admitted Rajya Sabha Unstarred
Question Dy no. 834 for answer on 25.07.2024**

From : samy bsi
<samy_bsi@yahoo.co.in>

Tue, Jul 23, 2024 06:34 PM

Subject : Re: Provisionally
admitted Rajya Sabha
Unstarred Question Dy
no. 834 for answer on
25.07.2024

To : Technical Section BSI
<tech@bsi.gov.in>

Sir,

Provisionally admitted Rajya Sabha Unstarred Question Dy no. 834 for answer on 25.07.2024

Question a: Whether the government has taken any steps to protect Bio diversity and Marine habitats in the country with particular reference to Tamil Nadu.

Answer: Yes steps taken to protect Bio Diversity and Marine habitats in the Country. Gulf of Mannar Biosphere Reserve highly protected area for marine biodiversity and marine habitat in Tamil Nadu. After 2004 tsunami many places of Tamil Nadu coastal areas, low lying seashore areas and fish landing areas were protected with artificial structures.

Question Nos.: **b, c,** and **d** not pertaining to BSI

Thanking You,

Yours Sincerely,

M.Palanisamy

Dr. M. Palanisamy

Botanical survey of India

Central National Herbarium

Botanic Garden Post

Howrah-711 103

West Bengal, India

E-Mail : samy_bsi@yahoo.co.in

Cell. 09790544842

On Tuesday 23 July, 2024 at 05:31:50 pm IST, Technical Section BSI <tech@bsi.gov.in> wrote:

Sir,

In reference to the above subject, please refer the trailing Parliamentary question and provide your comments in this regard.

Thanking You,

.....
Technical Section

Botanical Survey of India, HQ

Salt Lake City, Kolkata - 700 064

Emails: tech@bsi.gov.in ; tech.bsi2021@gmail.com

From: "Technical Section BSI" <tech@bsi.gov.in>

To: "M.U. Sharief" <shariefbsi@yahoo.co.in>, "BSI SRC" <sc@bsi.gov.in>, "BSI SRC" <bsisc@rediffmail.com>

Cc: "Dr Sudhansu Sekhar Dash" <ssdash@bsi.gov.in>,

"Umeshkumar L. Tiwari" <ukltiwari@bsi.gov.in>

Sent: Friday, July 19, 2024 4:46:58 PM

Subject: Fwd: Provisionally admitted Rajya Sabha
Unstarred Question Dy no. 834 for answer on 25.07.2024

Sir,

With reference to the above mentioned subject, please find herewith a forwarded email in connection to a Provisionally admitted Rajya Sabha Unstarred Question Dy no. 834 on Steps to protect Bio diversity and Marine habitats in the country for answer on 25.07.2024, which is self explanatory, for your kind perusal and necessary comments on the same positively by today 19.07.2024.

Thanking You

.....
Technical Section

Botanical Survey of India, HQ

Salt Lake City, Kolkata - 700 064

Emails: *tech@bsi.gov.in ; tech.bsi2021@gmail.com*

From: "Ashiho Asosii" <aamao@bsi.gov.in>

To: "Technical Section BSI" <tech@bsi.gov.in>, "Dr
Sudhansu Sekhar Dash" <ssdash@bsi.gov.in>

Sent: Tuesday, July 16, 2024 6:40:05 PM

Subject: Fwd: Provisionally admitted Rajya Sabha
Unstarred Question Dy no. 834 for answer on 25.07.2024

For n.a. pl.

From: "Vibhuti Panjiyar" <vibhuti.panjiyar@nic.in>

To: "amit raj" <amit.raj1979@nic.in>, "Satyendra Kumar"
<satyendra.kumar07@nic.in>, "secy tnbb"

<secy.tnbb@tn.gov.in>, "DHRITI BANERJEE"

<director@zsi.gov.in>, "Ashiho Asosii" <aamao@bsi.gov.in>,

"K.B. Singh" <igf.naeb@gov.in>, "Vandana Chaudhary"

<v.chaudhary@nic.in>, "Dr. Vijay Kumar"

<vijay.kumar66@nic.in>, "R Raghu Prasad"
<Raghu.prasad@gov.in>, "Director NCSCM"
<director@ncscm.res.in>, "Purvaja Ramachandran"
<purvaja@ncscm.res.in>

Cc: "Nameeta Prasad" <nameeta.prasad@gov.in>,
"RAGHU KUMAR KODALI" <kodali.rk@gov.in>, "Achuta
Nand Shukla" <achuta.shukla@gov.in>, "kaveri choudhary"
<kaveri.choudhary@gov.in>

Sent: Tuesday, July 16, 2024 6:22:37 PM

Subject: Provisionally admitted Rajya Sabha Unstarred
Question Dy no. 834 for answer on 25.07.2024

Madam/Sir,

I am directed to request you to kindly refer to the attached Notice of the provisionally admitted Rajya Sabha Unstarred Question Dy no. 834 for answer on 25.07.2024. The text of the question may be read as under:

Steps to protect Bio diversity and Marine habitats in the country.

- (a) Whether the government has taken any steps to protect Bio diversity and Marine habitats in the country with particular reference to Tamil Nadu;
- (b) if so the details there of and the funds allocated in the last 5 years Year-wise State-wise;
- (c) the effective measures taken by the government to curb the prevailing issues and problems pertaining to protection and conservation of bio-diversity and Marine habitats in the country; and
- (d) whether the government has signed any agreements with foreign countries and international organisations dealing with Environment and Climate change?

2. It is requested to kindly provide the information for the concerned part at the earliest, by 18.07.2024.

सधन्यवाद/ Kind regards

विभूति पंजियार/ Vibhuti Panjiyar

अवर सचिव / Under Secretary

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय / Ministry of Environment, Forest and Climate Change



--

Thank you.

Technical Section
Botanical Survey of India,
Headquarters, Kolkata
OFFICE NOTE

File No. BSI- 286/1 (Parl.)/2021-Tech. /270

Date: 16th January, 2025

Subject:: *Time Bound/ Parliament Matter: Questionnaire – I on Demands for Grants (2025-26) of the Ministry of Environment, Forest and Climate Change. – reg.*

PUC may be seen

With reference to the above mentioned subject an email dated 14.01.2025 regarding the Time Bound/ Parliament Matter: Questionnaire – I on Demands for Grants (2025-26) of the Ministry of Environment, Forest and Climate Change was received by this office from Shri. A. K. Sharma, SO (Parliament), MoEF&CC, New Delhi. In the same the following questions were sought for information from BSI through the OM vide no. F.H-11013/02/2025-Parl (E-254785) dated 14.01.2025 from the Parliament Section, MoEF&CC, New Delhi.

Q.3. Kindly provide details of the major achievements of the Ministry in terms of physical and financial targets achieved through the various schemes as mentioned in Q.2. above and if so, the reasons for not meeting the targets.

Q.4. Kindly provide the details of initiatives taken by the Ministry towards providing support to start-ups in the country. Whether the Ministry aims to collaborate with the start-ups for furthering innovation and problem solving? What has been the overall expenditure incurred in these activities over the years 2022-23, 2023-24 and 2024-25? What have been the physical the physical targets achieved?

Q.5. Has the Ministry taken any steps towards furthering the Government's commitments towards environment conservation, mitigating climate change and adapting approaches of sustainable development? Please give details thereof and any future plans proposed.

Q.6. How does the Ministry collaborate with the Private Sector in commissioning of projects/schemes of the Ministry? Does the Ministry plan to increase the participation of Private Sector, especially in matters of human resources and manpower?

Q.7. What initiatives have been taken by the Ministry to enhance the dissemination of information about its activities and achievements? What has been the overall expenditure incurred in these activities over the years 2022-23, 2023-24 and 2024-25? Give details of the physical targets achieved?

Q.9. Kindly provide details of the flora and fauna species that have shown a reduction in their number/population and have thus been categorized as threatened/vulnerable/endangered in the last few years. Please provide details about the initiatives of the Ministry towards protection of these species along with any significant achievement so far.

Q.39. Kindly provide the category-wise details of sanctioned strength, in-position strength and vacancies in the Ministry along with PSUs / CPSEs /Autonomous Bodies under the Ministry. When was the last recruitment exercise conducted? What is the impact of manpower shortage, if any, on the functioning of the Ministry and PSUs/ CPSEs/ Autonomous Bodies under the Ministry? How the Ministry is planning to overcome this issue.

In this regard, they have requested this office to provide the requisite information. A draft reply is prepared for kind perusal. Submitted for kind perusal and necessary instructions please.

S. Pandey
16/1/2024

Botanist (Tech Section) Sir please

PTO

Based on the information available,
a draft reply has been prepared,
pertaining to BSI, which may be
perused and approved for submission
to the Ministry.

Scientist & in Charge, Tech. Pls.

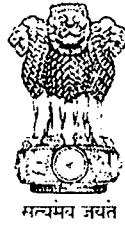
G. S.
17/1/2015

Approved and signed

G. S.
17/1/2015

EW267993796IN

स्पीड पोस्ट / SPEED POST



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA
सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX
तृतीय एम. एम. ओ. भवन / 3RD MSO BUILDING
पाँचवाँ और छठा तल / 5TH & 6TH FLOOR
डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I
साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064
Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/File No.: BSI-286/1 (Parl.) /2024-Tech. / 24 दिनांक/Date: 17th January 2025
सेवा में / To

The Secretary

Ministry of Environment, Forest and Climate Change
Indira Paryavaran Bhawan, Jor Bagh Road
New Delhi - 110003

(Kind attention: Shri. A. K. Sharma, SO (Parliament), MoEF&CC, New Delhi)

Subject: Time Bound/ Parliament Matter: Questionnaire – I on Demands for Grants (2025-26) of the Ministry of Environment, Forest and Climate Change. – reg.
Ref: Email dated 14.01.2025 from SO (Parliament), MoEF&CC, New Delhi.

महोदय / Sir,

With reference to the email dated 14.01.2025 regarding the *Time Bound/ Parliament Matter: Questionnaire – I on Demands for Grants (2025-26)* of the Ministry of Environment, Forest and Climate Change, received by this office from Shri. A. K. Sharma, SO (Parliament), MoEF&CC, New Delhi, I am directed to furnish herewith point-wise information pertaining to BSI (Q. nos. 3,4,5,6,7,9 and 39) as *Annexure 1* (attached) for your kind perusal and necessary action.

This issues with the approval of Director, Botanical Survey of India.

सधन्यवाद/ Thanking you,

भवदीय/Yours sincerely

(एस. एस. दाश / S. S. Dash)

वैज्ञानिक 'एफ' / Scientist 'F'

(प्रभारी, तकनीकी अनुभाग / In-charge, Tech. Section)

प्रेषित/DESPATCHED
20.01.2025

Encl.: As above

TECHNICAL SECTION
DISPATCHED
No. T- 970
Date: 17.01.2025



Sudhir Kumar Yadav <skyadavbsic@gmail.com>

Fwd: Time Bound/ Parliament Matter: Questionnaire – I on Demands for Grants (2025-26) of the Ministry of Environment, Forrest and Climate Change.

Sudhir Kr. Yadav <skyadavbsic@gmail.com>

Fri, Jan 17, 2025 at 12:45 PM

To: Dinesh Kumar Agrawala <drdkbsi@gmail.com>, "Dr. DK Agarwala, BSI" <dk.agarwal76@gov.in>, Dr Umeshkumar Tiwari <tigerumesh11@gmail.com>, ukltiwari@bsi.gov.in

Cc: "Tech. Sect. BSI" <tech@bsi.gov.in>, "ssdash@bsi.gov.in" <ssdash@bsi.gov.in>, "Dr. SS Dash, BSI" <ssdash2002@gmail.com>

Sir,

I am directed to forward the parliamentary questions for your kind perusal and necessary inputs, particularly for **Question no. 9 on IUCN status of flora.**

Thanking you

With regards,

.....
Dr. Sudhir Kumar Yadav

Botanist

Botanical Survey of India, Headquarters

(Ministry of Environment, Forest & Climate Change)

CGO Complex, Sector 1, Salt Lake City, Kolkata - 700 064, INDIA

orcid id: <https://orcid.org/0000-0003-2812-3347>

----- Forwarded message -----

From: Sudhansu Sekhar Dash <ssdash2002@gmail.com>

Date: Wed, Jan 15, 2025 at 2:04 PM

Subject: Fwd: Time Bound/ Parliament Matter: Questionnaire – I on Demands for Grants (2025-26) of the Ministry of Environment, Forrest and Climate Change.

To: Sudhir Kr. Yadav, HQ <skyadavbsic@gmail.com>

[Quoted text hidden]



Parliament Section Office Memorandum alongwith Questionnaire-I.pdf

2926K

Tech. sect. pl.
15/01/2025

**MOST IMMEDIATE
PARLIAMENT MATTER**

File No. H-11013/02 /2025-Parl (E-254785)
Government of India
Ministry of Environment, Forest & Climate Change
(Parliament Section)

Indira Paryavaran Bhawan,
New Delhi - 110001
Dated: the 14th January, 2025

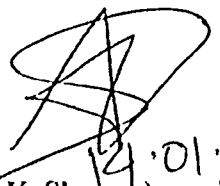
OFFICE MEMORANDUM

Subject:- Demands for Grants (2025-26) of the Ministry of Environment, Forest & Climate Change.

The undersigned is directed to forward herewith copy of the O.M. No. LAFEAS-ST14016/1/2025-COMM.SEC.(S&T)-RSS dated 13th January, 2025 along with **Questionnaire -I** on Demands for Grants (2025-26) pertaining to this Ministry received from Rajya Sabha Secretariat.

2. The Rajya Sabha Secretariat has requested to furnish **30 copies in English and 10 copies in Hindi** of the Replies latest by **24th January, 2025** along with the soft copy.
3. CCA, MoEF&CC, Nodal Officer for Demands for Grants is requested to take necessary action and send the requisite information directly to the Rajya Sabha Secretariat immediately and latest by **24th January, 2025** along with the soft copy under intimation to the Parliament Section.

This may kindly be accorded Top Priority.


(A.K. Sharma)
Section Officer (Parl.)
3136

To:
Shri Sakesh Kumar Singh,
Chief Controller of Accounts, MOEF & CC

Copy for information to:- PSO to Secy. (EF&CC) / PPS to DGF&SS / PPS to AS & FA / PPS to AS (AG) / PPS to JS(Parl.) / PA to Dir. (Parl.)

MOST IMMEDIATE

भारतीय संसद
PARLIAMENT OF INDIA
राज्य सभा सचिवालय
RAJYA SABHA SECRETARIAT

संसद भवन/संसदीय सौध,
नई दिल्ली-110001

वेबसाईट : <http://rajyasabha.hindi.nic.in>
No. LAFEAS-ST14016/1 /2025-COMM.SEC.(S&T)-RSS

Parliament House/Annexe,
New Delhi-110001.

Website : <http://rajyasabha.nic.in>
Dated the 13th January, 2025

OFFICE MEMORANDUM

Subject: - Demands for Grants (2025-26) of the Ministry of Environment, Forest & Climate Change.

The undersigned is directed to forward herewith a copy of the Questionnaire-I on Demands for Grants (2025-2026) pertaining to the Ministry of Environment, Forest & Climate Change and to request the Ministry to furnish the replies (30 copies in English & 10 copies in Hindi) latest by Friday, the 24th January, 2025. It is also requested to provide soft copy of the replies through email at rsc-st@sansad.nic.in.

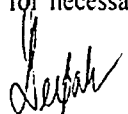
2. The receipt of this O.M. may kindly be acknowledged.

Sd/-
(RAJIV SAXENA)
DEPUTY SECRETARY
Tel: 23034018
23035772
E-mail: rsc-st@sansad.nic.in
rajiv.saxena67@sansad.nic.in

To

The Ministry of Environment, Forest & Climate Change,
(Kind Attn: Shri Tanmay Kumar, Secretary),
Indira Paryavaran Bhawan, 4th Floor,
Prithvi Block, Jorbagh Road, Aliganj,
New Delhi -110003.

Copy to: Parliament Section, the Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Prithvi Block, Jorbagh Road, Aliganj, New Delhi-110011 for necessary action.


(DEEPAK BHORIA)
UNDER SECRETARY
Tel.: 23035772
E-Mail: rsc-st@sansad.nic.in

Examination of Demands for Grants-2025-26 of
Ministry of Environment, Forest and Climate Change

Questionnaire-I

Q.1. Kindly provide details of the major thrust areas of the Ministry for the year 2024-25 and 2025-26.

Q.2. Kindly provide details of the major schemes/programmes of the Ministry, the financial outlay in each of these schemes, in terms of budget allocated and actual utilization during the year 2022-23, 2023-24 and 2024-25.

Account

✓ Q.3. Kindly provide details of the major achievements of the Ministry in terms of physical and financial targets achieved through the various schemes as mentioned in Q.2. above and if so, the reasons for not meeting the targets.

✓ Q.4. Kindly provide the details of initiatives taken by the Ministry towards providing support to start-ups in the country. Whether the Ministry aims to collaborate with the start-ups for furthering innovation and problem solving? What has been the overall expenditure incurred in these activities over the years 2022-23, 2023-24 and 2024-25? What have been the physical targets achieved?

Teach

✓ Q.5. Has the Ministry taken any steps towards furthering the Government's commitments towards environment conservation, mitigating climate change and adapting approaches of sustainable development? Please give details thereof and any future plans proposed.

N A

✓ Q.6. How does the Ministry collaborate with the Private Sector in commissioning of projects/schemes of the Ministry? Does the Ministry plan to increase the participation of Private Sector, especially in matters of human resources and manpower?

Acad
Teach

✓ Q.7. What initiatives have been taken by the Ministry to enhance the dissemination of information about its activities and achievements? What has been the overall expenditure incurred in these activities over the years 2022-23, 2023-24 and 2024-25? Give details of the physical targets achieved.

Teach

Q.8. Kindly give details of the PSUs/CPSEs/Autonomous Bodies under the Ministry. What are their primary objectives, significant achievements in the recent past, future goals? What has been the overall expenditure incurred over the years 2022-23, 2023-24 and 2024-25? Give details of the physical targets achieved?

✓ Q.9. Kindly provide details of the flora and fauna species that have shown a reduction in their number/population and have thus been categorized as threatened/vulnerable/endangered in the last few years. Please provide details about the initiatives of the Ministry towards protection of these species along with any significant achievement so far.

Teach

X Q.10. Kindly provide details of the total budgetary expenditure across various heads, which the Ministry has incurred during the years 2022-23, 2023-24 and 2024-25 towards all protected areas of the country. What have been the significant physical targets achieved?

Q.27. What is the role of carbon pricing or carbon market mechanisms in India's strategy to reduce emissions, and how does MoEFCC facilitate their implementation? Whether MoEFCC is involved in the development of carbon credit systems or international carbon trading mechanisms to help India meet its carbon reduction targets? How does MoEFCC ensure the transparency and credibility of carbon offset programs within the country? What actions is MoEFCC taking to foster private sector involvement in carbon reduction through market-based mechanisms?

Q.28. Kindly provide an overview of the Blue Flag certification and its objectives? What is the significance of the Blue Flag certification for Indian beaches? How does Blue Flag certification align with India's environmental and sustainable development goals? What criteria must a beach meet to be eligible for Blue Flag certification?

Q.29. What are the primary environmental, social, and economic benefits for Indian beaches that receive the Blue Flag certification? How has Blue Flag certification contributed to improving beach cleanliness, water quality, and biodiversity conservation in India? What impact has the certification had on local tourism and the economy of beachside regions? How does Blue Flag certification contribute to India's international reputation as a sustainable tourism destination?

Q.30. How has Blue Flag certification contributed to the conservation of marine ecosystems and coastal biodiversity in India? Kindly share examples of how Blue Flag beaches have contributed to protecting endangered species or habitats? What measures are in place to ensure that Blue Flag beaches contribute to reducing marine pollution, such as plastic waste?

Q.31. What have been the major Government policy interventions on air pollution mitigation over the years 2022-23, 2023-24 and 2024-25? What budgetary provisions were made in this regard during the same time period and what was the actual expenditure? What activities are undertaken and what have been the achievements with regard to abatement of air pollution? Whether any technological interventions have also been initiated in this regard and what is the timeline for their implementation? Kindly provide the details.

Q.32. What mechanism has been devised in the Ministry to monitor the pollution mitigation measures taken by various project proponents? What are the guidelines in this regard?

Q.33. What are the main sources of environmental pollution in India, and how do they differ by region? Kindly outline the current status of air and water pollution levels across the country, especially in urban areas like Delhi NCR? What are the key pollutants affecting the environment in India, and how do they impact public health and ecosystems? How does India rank globally in terms of air and water pollution, and what are the long-term consequences of this pollution for both human health and the environment?

Q.34. What are the major sources of air pollution in Delhi NCR, and how have they evolved over the years? In what manner vehicular emissions, industrial activity, construction, and agricultural burning contribute to the worsening air quality in Delhi NCR? Kindly provide details of the key air pollutants in Delhi NCR, such as PM2.5, nitrogen oxides, and sulfur dioxide, and their specific impacts on health and the environment? How do seasonal variations (e.g., winter smog, crop burning in neighboring states) affect air pollution levels in Delhi NCR? What role does meteorology and climate change plays in exacerbating air pollution in Delhi NCR?

Q.35. What are the main causes of water pollution in Delhi NCR, and how do they affect both surface water and groundwater? How do untreated sewage, industrial effluents, and religious rituals contribute to water contamination in the region? How have the Yamuna River and other water bodies in Delhi NCR been impacted by pollution, and what are the associated environmental and health risks? What is the quality of drinking water in Delhi NCR, and what measures have been taken to ensure safe access to clean water for residents? How does water scarcity and over-extraction of groundwater complicate the water pollution issues in the region?

Q.36. What actions have the Government of India and state governments taken to address air and water pollution in Delhi NCR? What role do agencies such as the **Central Pollution Control Board (CPCB)** and **Delhi Pollution Control Committee (DPCC)** play in monitoring and regulating pollution in Delhi NCR? What are the recent legislative measures introduced to control air and water pollution in Delhi NCR, such as the **Air (Prevention and Control of Pollution) Act** and the **Water (Prevention and Control of Pollution) Act**?

Q.37. How effective is the **Graded Response Action Plan (GRAP)** in curbing air pollution during high pollution periods in Delhi NCR? What steps have been taken to regulate construction activities, dust pollution, and vehicular emissions in Delhi NCR?

Q.38. What role do local municipal bodies and district authorities play in addressing air and water pollution in Delhi NCR? How are local authorities involved in waste management, sewage treatment, and pollution control in the region? How does the public participate in efforts to reduce pollution in Delhi NCR, especially in terms of waste disposal, recycling, and water conservation? What are the challenges faced by local authorities in coordinating pollution control efforts across various urban and rural areas of Delhi NCR?

✓ Q.39. Kindly provide the category-wise details of sanctioned strength, in-position strength and vacancies in the Ministry along with PSUs/CPSEs/Autonomous Bodies under the Ministry. When was the last recruitment exercise conducted? What is the impact of manpower shortage, if any, on the functioning of the Ministry and PSUs/CPSEs/Autonomous Bodies under the Ministry? How the Ministry is planning to overcome this issue.

Recd. Chandra
17/01/2025

Recd. Sharma
17/01/25

Q.P.D.
17/01/2025

AS PER MoEF & CC (COPY PROVIDED)		
BOTANICAL SURVEY OF INDIA		
OBJECT HEAD-WISE BREAK UP OF RE- 2023-2024		
		IN THOUSAND
OBJECT HEAD	CODE	FINAL RE- 2023-24
1	2	3
Salaries	1	335000
Wages	2	100
Rewards	5	3200
Medical Treatment	6	5600
Allowances	7	255000
Leave Travel Concession	8	7000
Training Expenses	9	700
Domestic Travel Expenses	11	12500
Foreign Travel Expenses	12	1500
Office Expenses	13	150000
Rent, Rates and Taxes	14	5000
Printing and Publication	16	4000
Rent for Others	18	1000
Digital Equipment	19	3000
Materials and Supplies	21	6500
Fuels and Lubricants	24	6000
Advertising and Publicity	26	700
Minor civil and electric Works	27	37500
Professional Services	28	1000
Repair and Maintenance	29	6000
Grants-in-aid-General	31	15000
Scholarships	34	32500
Awards and Prizes	40	200
Other Revenue Expenditure	49	1000
TOTAL OF REVENUE		890000
CAPITAL:		
Motor Vehicles	51	3600
Machinery and Equipment	52	4000
Information Computer, Telecommunication (ICT) Equipment	71	6700
Furniture & Fixtures	74	3000
Other Fixed Assets	77	1000
Buildings & Structures	72	106000
TOTAL OF CAPITAL		124300
	TOTAL	1014300

डा: सी. मुरुगन

Dr. C. Murugan

वैज्ञानिक एफ. व. कार्यालय अध्यक्ष
Scientist-F & Head of Office
भारतीय वनस्पति सर्वेक्षण/Botanical Survey of India
सी.जी.ओ. कम्प्लेक्स, सॉल्ट लेक सिटी
CGO Complex, Salt Lake City
कोलकाता-700 064/Kolkata-700 064



Sudhir Kumar Yadav <skyadavbsic@gmail.com>

Fwd: Draft reply to Parliamentary question

1 message

Sudhansu Sekhar Dash <ssdash2002@gmail.com>
To: "Sudhir Kr. Yadav, HQ" <skyadavbsic@gmail.com>

Sat, Jan 18, 2025 at 7:06 AM

----- Forwarded message -----

From: Dinesh Kumar Agrawala <drdkbsi@gmail.com>

Date: Fri, 17 Jan, 2025, 23:33

Subject: Draft reply to Parliamentary question

To: Ashiho Mao <aamao2008@gmail.com>, Ashiho Asosii <aamao@bsi.gov.in>, Sudhansu sekhar Dash <ssdash2002@gmail.com>, Dr Sudhansu Sekhar Dash <ssdash@bsi.gov.in>, Technical Section BSI <tech@bsi.gov.in>

Dear Sir,

Please find attached herewith the draft reply on IUCN status of Indian plants.

Regards

Dinesh

DINESH KUMAR AGRAWALA, Ph.D.

Scientist 'E' and In-Charge, Publication Section

Botanical Survey of India, Headquarters

CGO Complex, 3rd MSO Building

Block F, 5th & 6th Floor

DF Block, Sector-1, Salt Lake City, Kolkata - 700064

West Bengal, India

Mobile: +91 9475583216



DRAFT REPLY TO PARLIAMENT QUESTIONARE.docx

25K

DRAFT REPLY TO PARLIAMENT QUESTIONARE

Q.9: Details of Flora species that have shown a reduction in their number / population and have thus been categorized as threatened/ vulnerable/ endangered in the last few years –

The IUCN Global Red List features 3501 plant species which are distributed in India. Of these nearly 900 species are endemic to the country. Out of the total Indian species on the IUCN red list, 679 species are assessed as threatened (Vulnerable, Endangered, Critically Endangered, Extinct in the Wild and Extinct). BSI has also completed a project on IUCN Red Listing of Orchids in Eastern Himalaya for developing a national red list database. In this project, 770 Orchid species are assessed of which 687 species were assessed under the threatened categories (Critically Endangered, Endangered and Vulnerable). This apart, some other projects on threat assessment on endemic flowering plants of India (selected families) are being carried out at Botanical Survey of India. Also, there are some Indian species on which trade has been prohibited under CITES and some are protected under the Wildlife Protection Act-1972. The basis of these prohibitions is that these species are threatened with extinction because of over-exploitation and trade.

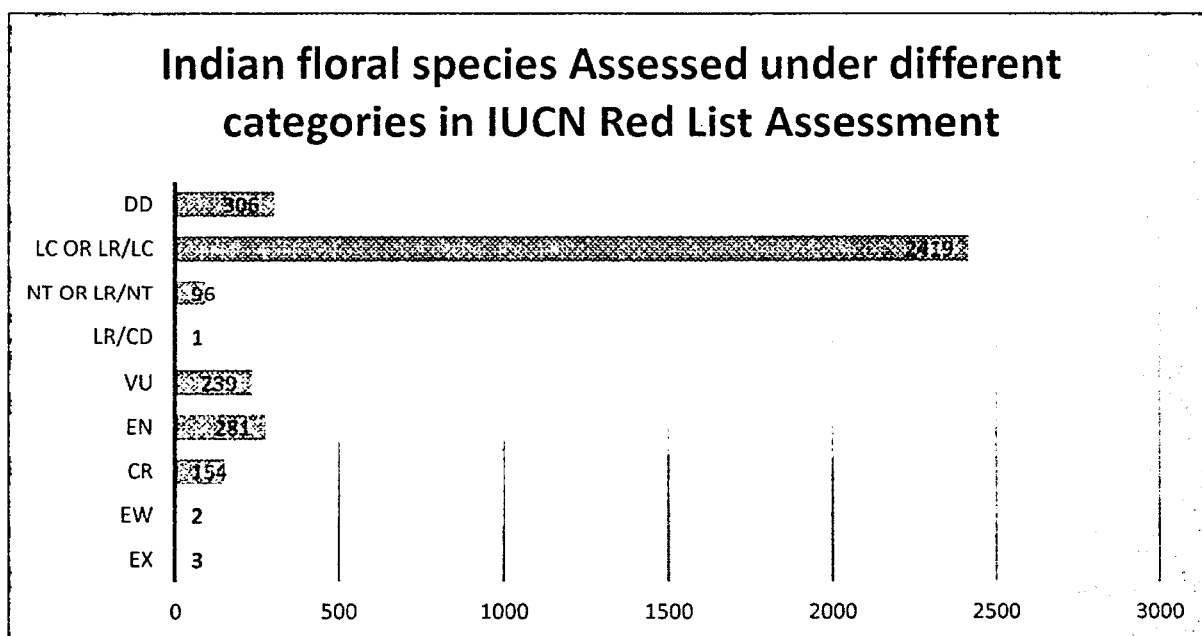


Figure-1: Number of Indian species so far featured in the IUCN Global Red List

Initiatives of the Ministry towards protection of these species along with any significant achievement so far –

Botanical Survey of India has been engaged in ex-situ conservation of the threatened species nationwide through a network of Botanic Gardens, both within the institute and at the other organizations/ Universities under the assistance to the Botanical Garden scheme of the Ministry. The Orchid species are being maintained in live condition in some of these gardens. Some threatened species were also propagated through in-vitro propagation methods and large number of seedlings raised. Large number of such Orchid species are also rescued from fallen tree trunks and rehabilitated in the Botanical Gardens maintained by the Botanical Survey of India.

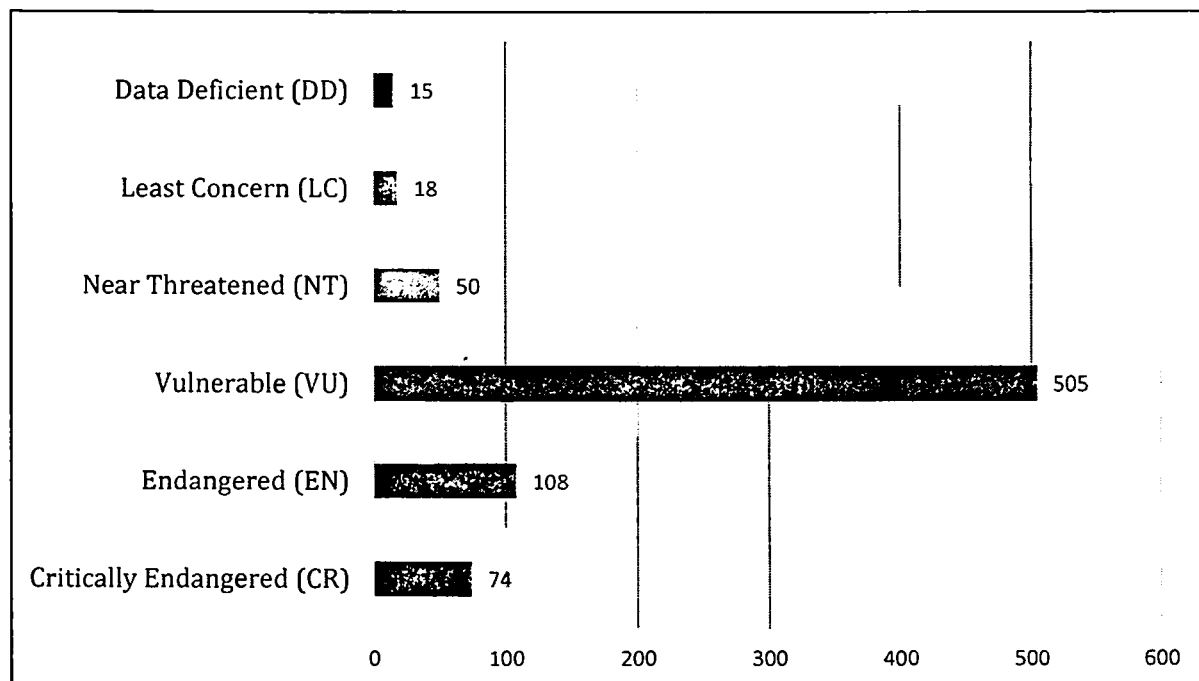


Figure-2: Result of the IUCN Red Listing of Orchids in Eastern Himalaya



Sinchita Biswas <sinchita.tina@gmail.com>

Fwd: Time Bound/ Parliament Matter: Questionnaire – I on Demands for Grants (2025-26) of the Ministry of Environment, Forreast and Climate Change.

2 messages

Sudhir Kr. Yadav <skyadavbsic@gmail.com>

Wed, Jan 15, 2025 at 2:07 PM

To: "Sinchita, BSI" <sinchita.tina@gmail.com>, Sinchita Biswas <sbiswas@bsi.gov.in>

----- Forwarded message -----

From: Sudhansu Sekhar Dash <ssdash2002@gmail.com>

Date: Wed, 15 Jan 2025, 14:04

Subject: Fwd: Time Bound/ Parliament Matter: Questionnaire – I on Demands for Grants (2025-26) of the Ministry of Environment, Forreast and Climate Change.

To: Sudhir Kr. Yadav, HQ <skyadavbsic@gmail.com>

----- Forwarded message -----

From: Gurupada Mandal <gpmandal.zsi@gmail.com>

Date: Wed, 15 Jan, 2025, 13:01

Subject: Fwd: Time Bound/ Parliament Matter: Questionnaire – I on Demands for Grants (2025-26) of the Ministry of Environment, Forreast and Climate Change.

To: ssdash2002 <ssdash2002@gmail.com>

Dr.G.P. Mandal,
 Scientist-E & Officer in-Charge,
 Apterygota Section, Field Survey Divn. & RFD Unit,
 Zoological Survey of India,
 Prani Vigyan Bhawan, M-Block,
 New Alipore,
 Kolkata - 700 053
 Ph: 033-24003925 Ext. 299
 Mob: 09433635447
 E.mail: gpmandal.zsi@gmail.com
 Website: <http://www.zsi.gov.in/http://www.zsi.gov.in/aboutus/profile/121.pdf>



----- Forwarded message -----

From: Sanjay Rawat <budget-mef@nic.in>

Date: Tue, 14 Jan 2025 at 17:56

Subject: Fwd: Time Bound/ Parliament Matter: Questionnaire – I on Demands for Grants (2025-26) of the Ministry of Environment, Forreast and Climate Change.

To: R Raghu Prasad <raghu.prasad@gov.in>, Ms Nameeta Prasad <nameeta.prasad@gov.in>, MoEF & CC Sr. Accounts Officer (HQ) <praomoef@yahoo.in>, Finance Officer <foccu-mef@nic.in>, Chief Engineer <ceccu@nic.in>, Mukesh Kumar <seccu-mef@nic.in>, Dr. Sanjeet Kumar <nzpnwdelhi@nic.in>, nmnhcell <nmnhcell@gmail.com>, nmnh headquarter <nmnh.headquarter@gmail.com>, Jitesh Kumar <sudiv-moefcc@gov.in>, bsi headquarter <bsi.headquarter@gmail.com>, BSI Hoo <hoo-hqrs@bsi.gov.in>, digf-rohq moef <digf-rohq.moef@gov.in>, nzpnwdelhi <nzpnwdelhi@gmail.com>, Director IGNFA <director@ignfa.gov.in>, RT Division <rtdiv-mefcc@gov.in>, Joint Director <jd-wl@nic.in>, Policy & Law Division <policyandlaw-mef@gov.in>, DG FSI <dgfsi@fsi.nic.in>, DIGF RT <digfrt-mef@nic.in>, Head ZSI <hoo@zsi.gov.in>, Shrikant sharma DEO Grade A, MOEF <shrikant.sharma@nic.in>, ocbudgetzsi <ocbudgetzsi@gmail.com>, Subhash Chandra <subhash.chandra65@gov.in>, Subhash CAMPA <adhoc-campa-mef@nic.in>, adfsihq ac <adfsihq_ac@rediffmail.com>, POONAM BISHT <bisht.poonam@gov.in>, dirnmnh <dirnmnh@gmail.com>, DHRITI BANERJEE <director@zsi.gov.in>, Dr. Sanjay Shukla <ms-cza@nic.in>, Rakesh Sharma <rakesh.sharma67@nic.in>, rohq-moefcc <rohq-moefcc@gov.in>, dfe-dehradun <dfe-dehradun@gov.in>, Mr Satyajit Mishra <satyajit.mishra@nic.in>, Naresh Kumar <naresh1612@nic.in>, DISHANT KUMAR <dishant.kumar51@nic.in>, Satya Prakash <satya.prakash79@nic.in>, Shankar Bairwa <sl.bairwa@nic.in>, Nikul Sirasiya <nikul.sirasiya@nic.in>, Subhash Singh <acctpao-mef@nic.in>, nirmala thakran <nirmala.thakran@nic.in>, rupli <rupli.r@gov.in>, EO CCU <eoccu-mef@nic.in>, Naresh Kumar <naresh1612@gov.in>, ROHQ Division MoEF & CC <rohq-

MOST IMMEDIATE

भारतीय संसद
PARLIAMENT OF INDIA
राज्य सभा सचिवालय
RAJYA SABHA SECRETARIAT

संसद भवन/संसदीय सौध,
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वेबसाईट : <http://rajyasabha.hindi.nic.in>
No. LAFEAS-ST14016/1/2025-COMM.SEC.(S&T)-RSS

Parliament House/Annexe,
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Website : <http://rajyasabha.nic.in>
Dated the 13th January, 2025

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Subject: - Demands for Grants (2025-26) of the Ministry of Environment, Forest & Climate Change.

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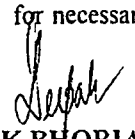
2. The receipt of this O.M. may kindly be acknowledged.

Sd/-
(RAJIV SAXENA)
DEPUTY SECRETARY
Tel: 23034018
23035772
E-mail: rsc-st@sansad.nic.in
rajiv.saxena67@sansad.nic.in

To

The Ministry of Environment, Forest & Climate Change,
(Kind Attn: Shri Tanmay Kumar, Secretary),
Indira Paryavaran Bhawan, 4th Floor,
Prithvi Block, Jorbagh Road, Aliganj,
New Delhi -110003.

Copy to: Parliament Section, the Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Prithvi Block, Jorbagh Road, Aliganj, New Delhi-110011 for necessary action.


(DEEPAK BHORIA)
UNDER SECRETARY
Tel.: 23035772
E-Mail: rsc-st@sansad.nic.in

Survey and Documentation

Examination of Demands for Grants-2025-26 of Ministry of Environment, Forest and Climate Change

Questionnaire-I

- Q.1. Kindly provide details of the major thrust areas of the Ministry for the year 2024-25 and 2025-26.
- Q.2. Kindly provide details of the major schemes/programmes of the Ministry, the financial outlay in each of these schemes, in terms of budget allocated and actual utilization during the year 2022-23, 2023-24 and 2024-25.
- Q.3. Kindly provide details of the major achievements of the Ministry in terms of physical and financial targets achieved through the various schemes as mentioned in Q.2. above and if so, the reasons for not meeting the targets.
- Q.4. Kindly provide the details of initiatives taken by the Ministry towards providing support to start-ups in the country. Whether the Ministry aims to collaborate with the start-ups for furthering innovation and problem solving? What has been the overall expenditure incurred in these activities over the years 2022-23, 2023-24 and 2024-25? What have been the physical targets achieved?
- Q.5. Has the Ministry taken any steps towards furthering the Government's commitments towards environment conservation, mitigating climate change and adapting approaches of sustainable development? Please give details thereof and any future plans proposed.
- Q.6. How does the Ministry collaborate with the Private Sector in commissioning of projects/schemes of the Ministry? Does the Ministry plan to increase the participation of Private Sector, especially in matters of human resources and manpower?
- Q.7. What initiatives have been taken by the Ministry to enhance the dissemination of information about its activities and achievements? What has been the overall expenditure incurred in these activities over the years 2022-23, 2023-24 and 2024-25? Give details of the physical targets achieved.
- Q.8. Kindly give details of the PSUs/CPSEs/Autonomous Bodies under the Ministry. What are their primary objectives, significant achievements in the recent past, future goals? What has been the overall expenditure incurred over the years 2022-23, 2023-24 and 2024-25? Give details of the physical targets achieved?
- Q.9. Kindly provide details of the flora and fauna species that have shown a reduction in their number/population and have thus been categorized as threatened/vulnerable/endangered in the last few years. Please provide details about the initiatives of the Ministry towards protection of these species along with any significant achievement so far.
- Q.10. Kindly provide details of the total budgetary expenditure across various heads, which the Ministry has incurred during the years 2022-23, 2023-24 and 2024-25 towards all protected areas of the country. What have been the significant physical targets achieved?

Q.11. Kindly provide a note on the receipts made in the CAMPA fund during the years 2022-23, 2023-24 and 2024-25 along with the details of grants made/expenditure made out of the CAMPA Fund during the same period. What are the different activities for which CAMPA fund is being used? Kindly provide State-wise details. Whether any instances of misuse/diversion of CAMPA funds have come to the notice of the Ministry. If so, what action has been taken by the Ministry in the matter?

Q.12. Kindly provide details of the extant process of environmental clearances given to infrastructure projects. What is the role of State Governments and other agencies? Kindly provide details of the number and total value of projects for which environmental clearances were given during the years 2022-23, 2023-24 and 2024-25. Also provide the number and total value of projects for which environmental clearances is awaited.

Q.13. Has the Ministry undertaken a nationwide study of the impact of Climate Change on weather conditions, ecology, agro-climatic conditions, etc. If so, kindly provide State-wise details thereof, highlighting significant findings such as high risk areas.

Q.14. Kindly provide details of the budgetary expenditure allocated by the Ministry over the years 2022-23, 2023-24 and 2024-25 on activities (such as research, data collection, mitigation strategies and infrastructure) related to Climate Change. Which are the Ministry's flagship programmes/schemes/institutions oriented towards this issue. Please also provide a list of such institutions as well as grants given by the Ministry and significant outcomes, if any. What are the sources and utilization of climate finance for climate change mitigation and adaptation?

Q.15. Kindly provide details about the measures taken by the Ministry towards managing the issue of man-animal conflict. What are the major reasons for increasing cases on man-animal conflict, with special reference to animal ingress in agricultural areas? Please provide State-wise details for the year 2022-23, 2023-24 and 2024-25 w.r.t. compensation amount paid to victims of animal attacks. Also provide details of compensation amount fixed for such victims, State-wise.

Q.16. Kindly provide details of Project Cheetah. What steps have been taken by the Ministry to ensure the safety and good upkeep of Cheetahs? Whether other such re-introduction or inter-state transfer of animal species has been planned in the future? If so, the details thereof.

Q.17. What are the key initiatives to promote community forestry and involve local communities in forest conservation? How is the Ministry promoting sustainable forest management practices?

Q.18. How many wildlife corridors have been officially identified and mapped across India? What criteria are used to identify and prioritize corridors? Are there any GIS-based maps or databases publicly available for these corridors?

Q.19. What is the annual budget allocation specifically for wildlife corridor restoration and management? How is this budget allocated across different states and regions? Are there any specific funding schemes or programs dedicated to wildlife corridors?

Q.20. Kindly provide an overview of the key findings of the India State of Forest Report (ISFR) 2023? What are the most significant improvements in forest cover and health reported in ISFR 2023 compared to previous years? What is the current status of forest types, biodiversity, and ecosystems as per the ISFR 2023? How does the ISFR 2023 align with India's national goals for forest conservation and sustainable development?

Q.21. According to ISFR 2023, how has the forest cover in India changed in the past few years? What trends are noticeable? What factors are contributing to the increase or decrease in forest cover, as highlighted in the report? How are the various forest types (tropical, temperate, and subtropical) performing in terms of coverage and health in ISFR 2023? What is the status of the green growth initiatives, including the Green India Mission, in terms of their impact on forest cover?

Q.22. What are the key shortcomings in the forest management strategies that have been identified in ISFR 2023? Whether there are any gaps in the enforcement of forest protection laws or policies that contribute to the challenges in forest conservation? How effective are current afforestation and reforestation programs in addressing forest cover loss and degradation? Are there any gaps in monitoring forest health and biodiversity, and how does this affect policy decisions? How are issues such as land encroachment and shifting cultivation (jhum cultivation) affecting forest health, and what steps are being taken to address these?

Q.23. How does ISFR 2023 address the issue of biodiversity conservation within India's forests? What measures are being taken to protect endangered species and critical habitats within forests? How are ecosystem services like carbon sequestration, water conservation, and soil preservation being factored into forest management strategies?

Q.24. What is the role of the Ministry in fulfilling India's Nationally Determined Contributions in terms of reducing carbon emission, increasing forest cover and increasing carbon sequestration? Has the Ministry come up with a road map? Please provide details along with financial allocations made and proposed to be made? Whether any assessment has been made about the impact of phasing out of fossil fuels on the society especially the weaker sections? Please share details along with measures contemplated for their mitigation.

Q.25. What specific targets for carbon emission reduction has India set under its NDCs, and how do they align with global climate goals? What is the role of the Ministry of Environment, Forest and Climate Change (MoEFCC) in implementing India's NDCs and tracking progress towards these goals? How does MoEFCC collaborate with other ministries and stakeholders (such as the Ministry of Power, Ministry of Renewable Energy) to achieve NDCs related to carbon emissions?

Q.26. What key policies and regulations have been introduced or strengthened by MoEFCC to support the reduction of carbon emissions? How does the National Action Plan on Climate Change (NAPCC) contribute to the carbon emission reduction targets set in India's NDCs? What are the significant sectoral strategies (such as in energy, transportation, and agriculture) MoEFCC is promoting to reduce emissions? How does MoEFCC ensure that carbon reduction policies are effectively enforced at the state and local government levels?

Q.27. What is the role of carbon pricing or carbon market mechanisms in India's strategy to reduce emissions, and how does MoEFCC facilitate their implementation? Whether MoEFCC is involved in the development of carbon credit systems or international carbon trading mechanisms to help India meet its carbon reduction targets? How does MoEFCC ensure the transparency and credibility of carbon offset programs within the country? What actions is MoEFCC taking to foster private sector involvement in carbon reduction through market-based mechanisms?

Q.28. Kindly provide an overview of the Blue Flag certification and its objectives? What is the significance of the Blue Flag certification for Indian beaches? How does Blue Flag certification align with India's environmental and sustainable development goals? What criteria must a beach meet to be eligible for Blue Flag certification?

Q.29. What are the primary environmental, social, and economic benefits for Indian beaches that receive the Blue Flag certification? How has Blue Flag certification contributed to improving beach cleanliness, water quality, and biodiversity conservation in India? What impact has the certification had on local tourism and the economy of beachside regions? How does Blue Flag certification contribute to India's international reputation as a sustainable tourism destination?

Q.30. How has Blue Flag certification contributed to the conservation of marine ecosystems and coastal biodiversity in India? Kindly share examples of how Blue Flag beaches have contributed to protecting endangered species or habitats? What measures are in place to ensure that Blue Flag beaches contribute to reducing marine pollution, such as plastic waste?

Q.31. What have been the major Government policy interventions on air pollution mitigation over the years 2022-23, 2023-24 and 2024-25? What budgetary provisions were made in this regard during the same time period and what was the actual expenditure? What activities are undertaken and what have been the achievements with regard to abatement of air pollution? Whether any technological interventions have also been initiated in this regard and what is the timeline for their implementation? Kindly provide the details.

Q.32. What mechanism has been devised in the Ministry to monitor the pollution mitigation measures taken by various project proponents? What are the guidelines in this regard?

Q.33. What are the main sources of environmental pollution in India, and how do they differ by region? Kindly outline the current status of air and water pollution levels across the country, especially in urban areas like Delhi NCR? What are the key pollutants affecting the environment in India, and how do they impact public health and ecosystems? How does India rank globally in terms of air and water pollution, and what are the long-term consequences of this pollution for both human health and the environment?

Q.34. What are the major sources of air pollution in Delhi NCR, and how have they evolved over the years? In what manner vehicular emissions, industrial activity, construction, and agricultural burning contribute to the worsening air quality in Delhi NCR? Kindly provide details of the key air pollutants in Delhi NCR, such as PM2.5, nitrogen oxides, and sulfur dioxide, and their specific impacts on health and the environment? How do seasonal variations (e.g., winter smog, crop burning in neighboring states) affect air pollution levels in Delhi NCR? What role does meteorology and climate change plays in exacerbating air pollution in Delhi NCR?

Q.35. What are the main causes of water pollution in Delhi NCR, and how do they affect both surface water and groundwater? How do untreated sewage, industrial effluents, and religious rituals contribute to water contamination in the region? How have the Yamuna River and other water bodies in Delhi NCR been impacted by pollution, and what are the associated environmental and health risks? What is the quality of drinking water in Delhi NCR, and what measures have been taken to ensure safe access to clean water for residents? How does water scarcity and over-extraction of groundwater complicate the water pollution issues in the region?

Q.36. What actions have the Government of India and state governments taken to address air and water pollution in Delhi NCR? What role do agencies such as the **Central Pollution Control Board (CPCB)** and **Delhi Pollution Control Committee (DPCC)** play in monitoring and regulating pollution in Delhi NCR? What are the recent legislative measures introduced to control air and water pollution in Delhi NCR, such as the **Air (Prevention and Control of Pollution) Act** and the **Water (Prevention and Control of Pollution) Act**?

Q.37. How effective is the **Graded Response Action Plan (GRAP)** in curbing air pollution during high pollution periods in Delhi NCR? What steps have been taken to regulate construction activities, dust pollution, and vehicular emissions in Delhi NCR?

Q.38. What role do local municipal bodies and district authorities play in addressing air and water pollution in Delhi NCR? How are local authorities involved in waste management, sewage treatment, and pollution control in the region? How does the public participate in efforts to reduce pollution in Delhi NCR, especially in terms of waste disposal, recycling, and water conservation? What are the challenges faced by local authorities in coordinating pollution control efforts across various urban and rural areas of Delhi NCR?

Q.39. Kindly provide the category-wise details of sanctioned strength, in-position strength and vacancies in the Ministry along with PSUs/CPSEs/Autonomous Bodies under the Ministry. When was the last recruitment exercise conducted? What is the impact of manpower shortage, if any, on the functioning of the Ministry and PSUs/CPSEs/Autonomous Bodies under the Ministry? How the Ministry is planning to overcome this issue.



भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

DRAFT - I

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING

पाँचवाँ और छठा तल / 5TH & 6TH FLOOR

डी एफ ब्लॉक, सेक्टर 1 / DF BLOCK, SECTOR I

साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI-286/1 (Parl.) / 2021 -Tech.

दिनांक/Date : January, 2025

सेवा में / To

The Secretary

Ministry of Environment, Forest and Climate Change

Indira Paryavaran Bhawan, Jor Bagh Road

New Delhi - 110003

(Kind attention: Shri. A. K. Sharma, SO (Parliament), MoEF&CC, New Delhi)

Subject: Time Bound/ Parliament Matter: Questionnaire – I on Demands for Grants (2025-26) of the Ministry of Environment, Forest and Climate Change. – reg.

Ref: Email dated 14.01.2025 from SO (Parliament), MoEF&CC, New Delhi.

महोदय / Sir,

With reference to the email dated 14.01.2025 regarding the Time Bound/ Parliament Matter: Questionnaire – I on Demands for Grants (2025-26) of the Ministry of Environment, Forest and Climate Change received by this office from Shri. A. K. Sharma, SO (Parliament), MoEF&CC, New Delhi, I am directed to furnish herewith the following point-wise information pertaining to BSI for your kind perusal and necessary action as follows:

Q.3. Kindly provide details of the major achievements of the Ministry in terms of physical and financial targets achieved through the various schemes as mentioned in Q.2. above and if so, the reasons for not meeting the targets.

Answer: The information in respect of the major achievements of BSI in terms of physical and financial targets achieved through the various schemes is given below:

A. Physical:

SURVEY AND DOCUMENTATION

❖ **Floral Surveys:** BSI has undertaken 80 Annual Research Programmes (ARPs) and conducted 151 floral surveys (including local tours) in different phyto-geographical regions of the country. Besides, 5 + 16 + 19 Herbarium Consultation Tour (HCT) were undertaken to various herbaria in India.

❖ **Collection/ Augmentation of floral species:** During the reference period, a total of 8804 floral specimens belonging to different floral category were collected and identified.

❖ **Research Publication:** A total of 277 publication which includes 8 books, 5 e-books, 3 miscellaneous publication, 2 periodicals, 1 Hindi book and 4 EICAP (ENVIS) publications were published by BSI. Besides, Scientists of BSI published 254 Research papers in various scientific national and international journals of repute.

❖ **Plant Discoveries:** During the period of 2023-2024 a total of 14 new genera, 165 new species and 06 intraspecific taxa of flowering and non-flowering plants were discovered from India as new to science

Zoological Survey of India

Questionnaire-I

Name of the Ministry/ Department: Zoological Survey of India

Scheme name (CS/CSS): CS

Q. no. 3 Kindly provide details of the major achievements of the Ministry in terms of physical and financial targets achieved through the various schemes as mentioned in Q.2. above and if so, the reasons for not meeting the targets.

Financial Out lay (figures in thousand)		
2022-2023	Targets	Achievements
RE 845000 (figures in thousand)	i. Faunal Surveys to be conducted- 119 ii. Identification of specimens/species- 1,75,000/7000 iii. New discoveries- 170 iv. Publication- 600 (including 25 Books & 150 Research Papers in SCI Journals) v. Digital Sequence Information (DSI) on Indian Fauna: 1200 vi. Capacity Building training/workshop- 60 vii. Identification and advisory services: as & when received viii. Wildlife Forensics and Crime Control: as & when received ix. Infrastructure development A. Establishment of Molecular Systematics	i. 119 faunal surveys have been conducted. ii. 1,78,699 specimens belonging to 7,043 species have been identified by the scientists of ZSI. iii. 220 new discoveries have been published by the scientists of ZSI including 111 new species and 109 species of new distributional record of faunal communities in India. iv. A total of 732 publications have been made by ZSI (including 31 Books & 179 Research Papers in SCI Journals) v. A total of 1770 DNA barcodes of 497 species have been submitted on BOLD and GeneBank. vi. This year 78 Workshops/Webinars/ Training programmes/seminars/ organized by ZSI Headquarters and Regional Centres for the benefit of over 10000 students and researchers across the country. vii. ZSI had managed to identify 7549 specimens and 86 photographs belonging to 1063 species received from 162 Institutes/colleges. viii. During the reporting period, a total of 2499 specimens were identified belonging to 62 species received from 71 Agencies. ix. A. Establishment of Molecular Systematics

	Laboratory at MARC, Digha & HARC, Solan to be done B. The work of National Museum and State of Art Auditorium building and construction of compound wall for Eastern Ghats Regional Centre at Amravati, Andhra Pradesh to be completed. C. Construction work of Visiting Scientist hostel at ANRC and construction of compound wall of NCRI at ANRC to be undertaken D. Museum renovation work to be completed at WGRC, Kozhikode. E. A multipurpose hall to be ready for inauguration at GPRC.	Laboratory at MARC, Digha & HARC, Solan B. National Museum and State of Art Auditorium building work is almost completed at EBRC, besides 10 camera traps and one Stereozoom microscope was purchased Construction of compound wall for Eastern Ghats Regional Centre at Amravati, Andhra Pradesh (in progress) C. Construction of Visiting Scientist hostel at ANRC (in progress) and construction of compound wall of NCRI at ANRC (in progress). D. Museum renovation work completed at WGRC, Kozhikode. E. A multipurpose hall is ready for inauguration at GPRC.
2023-2024	Targets	Achievements
RE 101700 (figures in thousand)	i. Faunal Surveys to be conducted- 125 ii. Identification of specimens/species- 1.80,000/7000 iii. New discoveries- 170 iv. Publication- 600 (including 25 Books & 150 Research Papers in SCI Journals) v. Digital Sequence Information (DSI) on Indian Fauna: 1200 vi. Capacity Building training/workshop- 60 vii. Identification and advisory services: as & when received	i. 125 faunal surveys have been conducted. ii. 1,82,296 specimens belonging to 7166 species have been identified by the scientists of ZSI. iii. 195 new discoveries have been published by the scientists of ZSI including 91 new species and 104 species of new distributional record of faunal communities in India. iv. A total of 624 publications have been made by ZSI (including 28 Books & 155 Research Papers in SCI Journals) v. A total of 1211 DNA barcodes of 535 species have been submitted on BOLD and GeneBank. vi. This year 69 Workshops/Webinars/ Training programmes/seminars/ organized by ZSI Headquarters and Regional Centres for the benefit of over 10000 students and researchers across the country. vii. During the year, the ZSI has managed to identify 7105 specimens and 35 photographs of different faunal groups belonging to 1272 species received from 195 Institutes/colleges.

	viii. Wildlife Forensics and Crime Control: as & when received ix. Infrastructure development: A. A state of art facility on “Wildlife Forensics” is being developed at ZSI, Kolkata B. Renovation of NERC, ZSI Office Building including the DNA Laboratory at NERC, Shillong C. Building renovation at DRC, Jodhpur D. Renovation work at NRC, Dehradun E. Construction of Visiting Scientists Hostel in the ZSI Residential quarter’s campus, renovation & modernization of existing museum, and laboratory and land acquirement for construction of National Coral Reef Research Institute to be done at ZSI, ANRC Andaman and Nicobar Islands.	viii. During the reporting period a total of 692 specimens and 13 photographs belonging to 9 faunal groups such as Amphibians, Echinodermata, Cnidaria, Lepidoptera, Fish, Reptiles, Birds, Mammals, Mollusca, pertaining to 94 enforcement agencies were identified. ix. A. A state of art facility on “Wildlife Forensics” is being developed at ZSI HQs Kolkata to cater the need of various Law Enforcement Agencies in identifying various seized articles using genetics and genomics tool. B. Renovation of NERC, ZSI Office Building including the DNA Laboratory and National Zoological Collection of NERC, ZSI is under progress. C. Building renovation has been done; RMO pumping set, SITC of Air conditioners, Video conferencing with mic system, TV & Audio System has been installed in ZSI, DRC Jodhpur. D. Renovation and Modernization of Old Conference Hall, Old Toilets and Visiting Scientist Hostel of ZSI, NRC, Dehradun is under progress. E. Construction of Visiting Scientists Hostel in the ZSI Residential quarter’s campus is about to complete, renovation & modernization of existing museum completed, modernization of existing auditorium is under progress and renovation of Office building and laboratory and land acquirement for construction of National Coral Reef Research Institute has been done at ZSI, ANRC Andaman and Nicobar Islands.
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2024-2025	Targets	Achievements (up to Dec 2024)
RE 1100000 (figures in thousand)	i. Faunal Surveys to be conducted- 130 ii. Identification of specimens/species- 1.80,000/7000 iii. New discoveries- 140 iv. Publication- 600 (including 25 Books & 150 Research Papers in SCI Journals) v. Digital Sequence Information (DSI) on Indian Fauna: 1200 vi. Capacity Building training/workshop- 60 vii. Identification and advisory services: as & when received viii. Wildlife Forensics and Crime Control: as & when received ix. Infrastructure development: A. Construction work of	i. 115 faunal surveys have been conducted till December 2024. ii. 1,60,121 specimens belonging to 6800 species have been identified by the scientists of ZSI till December 2024. iii. 144 new discoveries have been published by the scientists of ZSI including 79 new species and 65 species of new distributional record of faunal communities in India. iv. A total of 611 publications have been made by ZSI (including 27 Books & 115 Research Papers in SCI Journals) till December 2024. v. A total of 1186 DNA barcodes of 506 species have been submitted on BOLD and GeneBank. vi. This year 58 Outreach activities have been conducted in both online mode as well as physical modes for the benefit of over 6500 students and researchers across the country. vii. 148 Institutes/universities/colleges have availed the services for identification of 3587 specimens belonging to 1100 species. viii. During the period 567 confiscated material belonging to 51 species including many scheduled species received from 52 departments.

	Eastern Himalayan Faunal Repository at APRC, Itanagar to be initiated. B. Construction work of Western Ghat Faunal Repository at WRC, Pune to be initiated. C. Renovation work for Marine Aquarium at MARC, Digha to be undertaken. D. Renovation work for Museum at FBRC, Hyderabad to be undertaken.	ix. A. Construction work of Eastern Himalayan Faunal Repository at APRC, Itanagar is under progress. B. Construction work of Western Ghat Faunal Repository at WRC, Pune is under progress. C. Renovation work for Marine Aquarium at MARC, Digha is under progress. D. Renovation work for Museum at FBRC, Hyderabad is under progress.
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Q no. 4.: Kindly provide the details of initiatives taken by the Ministry towards providing support to start-ups in the country. Whether the Ministry aims to collaborate with the start-ups for furthering innovation and problem solving? What has been the overall expenditure incurred in these activities over the years 2022-23, 2023-24 and 2024-25? What have been the physical targets achieved?

Not pertaining to ZSI.

Q. no. 5: Has the Ministry taken any steps towards furthering the Government's commitments towards environment conservation, mitigating climate change and adapting approaches of sustainable development? Please give details thereof and any future plans proposed.

Ministry has taken initiative to establish 'Long Term Monitoring Plots' in 10 Biogeographic regions of India during 2025. Long term biodiversity monitoring system can track the changes in species abundance, distribution and diversity over time.

Q. no. 6: How does the Ministry collaborate with the Private Sector in commissioning of projects/schemes of the Ministry? Does the Ministry plan to increase the participation of Private Sector, especially in matters of human resources and manpower?

Not pertaining to ZSI.

Q. no. 7: What initiatives have been taken by the Ministry to enhance the dissemination of information about its activities and achievements? What has been the overall expenditure incurred in these activities over the years 2022-23, 2023-24 and 2024-25? Give details of the physical targets achieved.

- DST-SERB Karyashala on Corals and coral associated faunal communities: Taxonomy & Monitoring.
- Hands on training Collection, Preservation and Identification of Zoological Specimens to Nagaland University PG student

Q. no. 9: Kindly provide details of the flora and fauna species that have shown a reduction in their number/population and have thus been categorized as threatened/vulnerable/endangered in the last few years. Please provide details about the initiatives of the Ministry towards protection of these species along with any significant achievement so far.

There is no record of reduction in respect of faunal diversity during last few years. Instead, there is steady growth in discoveries of animal species in India as given below.

Year	Number of the new species of fauna	Number of the new records of faunal species to India
2019	364	116
2020	407	150
2021	406	134
2022	467	195
2023	442	199

Several initiatives have been undertaken by the Government of India to protect the biodiversity and few of them are mentioned below.

- The coverage of Protected Areas which was 4.90% of country's geographical area in 2014 has now increased to 5.43% including 1022 PAs under the area of 1,78,640.69 sq.km. including 106 National Parks, 573 Wildlife Sanctuaries, 123 Conservation Reserves and 220 Community Reserves.
- Legal protection has been provided to several species of floral and faunal communities against collection, hunting, and poaching under the provisions of the Indian Wildlife (Protection) Act, 1972.
- The Government of India has declared Protected Area Network like 18 Biosphere Reserves, 129 Marine Protected Areas, 55 Tiger Reserves, 33 Elephant Reserves, 85 RAMSAR Wetland Sites, 7 Natural World Heritage Sites, 34 Cultural World Heritage Sites, 1 Mixed World Heritage Site, 106 Important Coastal and Marine Biodiversity Areas (ICMBAs), 554 Important Bird Areas (IBAs), 531 Key Biodiversity Areas, and 44 Biodiversity Heritage Sites to protect vital ecosystems.
- Eco-Sensitive Zones (ESZs) have been established around protected areas to reduce human interference, while habitat corridors are being developed to ensure safe movement for wildlife.

- The government also promotes species-specific recovery initiatives and captive breeding programmes to bolster the populations of critically endangered species such as Asian Wild Buffalo, Asiatic Lion, Brow-Antlered Deer or Sangai, Dugong, Edible Nest Swiftlet, Gangetic River Dolphin, Great Indian Bustard, Hangul, Indian Rhino or Great One-horned Rhinoceros, Jerdon's Courser, Malabar Civet, Marine Turtles, Nicobar Megapode, Nilgiri Tahr, Snow Leopard, Swamp Deer, Vultures, Northern River Terrapin, Clouded Leopard, Arabian Sea Humpback Whale, Red Panda, and Caracal.
- India committed to achieve Land Degradation Neutrality and restoration of 26 million hectares of degraded land by 2030, which includes 21 million hectares of Bonn Challenge and additional commitment of 5 million hectares as voluntary commitment. This will be helpful for conservation of biodiversity.
- Blue Economy is one of the thrust areas of the Government for sustainable development of coastal resources. Special emphasis was taken for the Conservation & protection of coastal and marine resources, Pollution abatement measures, Management of coastal and Marine ecosystem, Livelihood enhancement with security of coastal community, Capacity building to strengthen the blue economy.

Q. no 39.: Kindly provide the category-wise details of sanctioned strength, in-position strength and vacancies in the Ministry along with PSUs/CPSEs/Autonomous Bodies under the Ministry. When was the last recruitment exercise conducted? What is the impact of manpower shortage, if any, on the functioning of the Ministry and PSUs/CPSEs/Autonomous Bodies under the Ministry? How the Ministry is planning to overcome this issue?

Level of Post	Sanctioned Post	Filled up Post	Vacant Post
Gazetted Officers – Group A	141	120	21
Gazetted Officers – Group B	81	45	36
Non Gazetted Officers – Group B	252	150	102
Group C	564	308	256
Total	1038	623	415

4027

140

41

44

22

51

49

140

2258

199



Parliament

Sudhir Kumar Yadav <skyadavbsic@gmail.com>

Fwd: Time Bound/ Parliament Matter: Questionnaire – I on Demands for Grants (2025-26) of the Ministry of Environment, Forrest and Climate Change.

Umeshkumar L. Tiwari <ukltiwari@bsi.gov.in>

Mon, Jan 20, 2025 at 12:13 PM

To: skyadavbsic <skyadavbsic@gmail.com>

Cc: tigerumesh11 <tigerumesh11@gmail.com>, Technical Section BSI <tech@bsi.gov.in>, Dr Sudhansu Sekhar Dash <ssdash@bsi.gov.in>, ssdash2002 <ssdash2002@gmail.com>, Ashiho Asosii Mao <aamao@bsi.gov.in>, aamao2008 <aamao2008@gmail.com>

Reply already sent to the ministry on 17.1.2025
W/RECORD

Sudhir
20/1/2025

Dear Dr Sudhir,

Please find reply on Q9 Parliament Matter: Questionnaire as desired (copy attached).

Regards,

--- On Fri, 17 Jan 2025 12:45:30 +0530 <skyadavbsic@gmail.com> wrote ---

[Quoted text hidden]



Q. no. 9 Kindly provide details of the flora and fauna species by UKT.docx

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Q. no. 9: Kindly provide details of the flora and fauna species that have shown a reduction in their number/population and have thus been categorized as threatened/vulnerable/endangered in the last few years. Please provide details about the initiatives of the Ministry towards protection of these species along with any significant achievement so far.

Numerous studies emphasize India's unique position as the world's biodiversity hotspot. The Botanical Survey and Zoological Survey have documented an astounding number of plant and animal taxa from various ecological systems in India. There is no record of reduction in respect of floral diversity during last few years. Instead, there is steady growth in discoveries of plant species in India as given below.

Year	Number of the new species of flora	Number of the new records of floral species to India
2019	166	73
2020	197	64
2021	195	120
2022	186	153
2023	171	167

The number of species facing worldwide threats has been rising, which has raised concerns. Many species are now in danger due to development initiatives and a greater reliance on forests for both livelihood and sustenance. Till date 924 floral taxa assessed following IUCN guideline (293 Least concern and 111 Data deficient) and are available on IUCN red list website; among these 93 taxa are considered critically endangered, 203 taxa Endangered, 161 taxa Vulnerable and 38 taxa Near threatened in India, and their populations need to be protected immediately. In addition to human-caused hazards, invasive species and climate change pose a threat to a number of species. Promoting species recovery programs is the only realistic way to prevent the extinction of many species. Several initiatives have been undertaken by the Government of India to protect the biodiversity and few of them are mentioned below.

- The government also promotes several species-specific recovery initiatives and captive breeding programmes to bolster the populations of critically endangered animal species but not much step taken for plant conservation. For protection of habitat many PA were declared. The coverage of Protected Areas which was 4.90% of country's geographical area in 2014 has now increased to 5.43% including 1022 PAs under the area of 1,78,640.69 sq.km. including 106 National Parks, 573 Wildlife Sanctuaries, 123 Conservation Reserves and 220 Community Reserves. The Government of India has declared Protected Area Network like 18 Biosphere Reserves, 129 Marine Protected

Areas, 55 Tiger Reserves, 33 Elephant Reserves, 85 RAMSAR Wetland Sites, 7 Natural World Heritage Sites, 34 Cultural World Heritage Sites, 1 Mixed World Heritage Site, 106 Important Coastal and Marine Biodiversity Areas (ICMBAs), 554 Important Bird Areas (IBAs), 531 Key Biodiversity Areas, and 44 Biodiversity Heritage Sites to protect vital ecosystems.

- Eco-Sensitive Zones (ESZs) have been established around protected areas to reduce human interference, while habitat corridors are being developed to ensure safe movement for wildlife.
- Legal protection has been provided to several species of floral and faunal communities against collection, hunting, and poaching under the provisions of the Indian Wildlife (Protection) Act, 1972. The Wildlife (Protection) Amendment Bill, 2022, was introduced by the government with the goal of conserving and safeguarding wildlife by improving protected area management and streamlining schedules that include species under the Wildlife (Protection) Act, 1972.
- India committed to achieve Land Degradation Neutrality and restoration of 26 million hectares of degraded land by 2030, which includes 21 million hectares of Bonn Challenge and additional commitment of 5 million hectares as voluntary commitment. This will be helpful for conservation of biodiversity.
- Blue Economy is one of the thrust areas of the Government for sustainable development of coastal resources. Special emphasis was taken for the Conservation & protection of coastal and marine resources, Pollution abatement measures, Management of coastal and Marine ecosystem, Livelihood enhancement with security of coastal community, Capacity building to strengthen the blue economy.
- The government also support several scheme such as 'Assistance to Botanic Gardens (ABG) scheme' is a grant-in-aid program by the Union Ministry of Environment, Forest and Climate Change (MoEF&CC) of India. The scheme's goal is to promote conservation research for threatened and endemic plants. Its main objective is to Conserve threatened and endemic plants, Multiply threatened and endemic plants, Develop seed banks and arboreta, Disseminate knowledge and planting materials, and Link conservation with livelihood generation.

Technical Section
Botanical Survey of India,
Headquarters, Kolkata
OFFICE NOTE

File No. BSI- 286/1 (Parl.)/2021-Tech. /613, 614

Date: 5th March, 2025

Subject:: *Violation of Environmental Norm. – reg.*

PUC may be seen

With reference to the above mentioned subject communication *vide* Lok Sabha Unstarred D No. 4391 dated 25.02.2025 regarding the **Violation of Environmental Norms** was received by this office from Shri. Chiranjib Mridha, US, MoEF&CC, New Delhi. In the same the four questions were sought for information for sitting on 10.03.2025. Another communication *vide* no. 34/US(PL)/2025 dated 04.03.2025 having Lok Sabha Unstarred Question no. 1661 was also received by this office from Shri Abhimanyu Kumar Sharma, SO, MoEF&CC, New Delhi. The questions sought in Question no. 1661 is same as that in Lok Sabha Unstarred D No. 4391, which are as follows.

- (a) *the details regarding aim and objective of National Green Tribunal (NGT);*
- (b) *the details of machinery available to check environmental norms/violations endangering wild life or green cover from various parts of the country;*
- (c) *whether suo-moto action is also initiated against the persons or state authorities who may responsible for their actions or inactions in such violations; and*
- (d) *whether there are any exemplary punishments etc. imposed against them in the past, if so, the details thereof?*

In this regard, they have requested this office to provide the requisite information. The draft reply is prepared for the questions for kind perusal. Submitted for kind perusal and necessary instructions please.

Spinaus

Botanist (Tech Section) Sir please

The above mentioned parliamentary questions are not pertaining to BSI. Therefore, a nil reply may be sent to the ministry. Submitted for perusal and approval pl.

Scientist F & Incharge, Tech Pls.

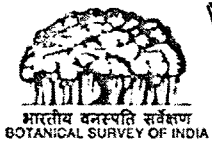
Spinaus
5/03/2025

As proposed the question are not related to BSI, therefore 'NIL' report may be furnished

D/BSI/1/10

/APPROVED
05/03/25

Spinaus
5/3/2025



EW7679935T3IN



स्पीड पोस्ट / SPEED POST



भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

सत्यमेव जयते

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDINGपाँचवाँ और छठा तल / 5TH & 6TH FLOOR

डी एफ ब्लॉक, सेक्टर I / DF BLOCK, SECTOR I

साल्टलेक, कोलकाता-६४ / SALT LAKE, KOLKATA - 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

फाइल संख्या/ File No.: BSI- 286/1 (Parl.) / 2021 -Tech. 187

दिनांक/Date : 5th March, 2025

सेवा में / To

The Secretary

Ministry of Environment, Forest and Climate Change

Indira Paryavaran Bhawan, Jor Bagh Road

New Delhi - 110003

(Kind attention: Shri Abhimanyu Kumar Sharma, SO/US, MoEF&CC, New Delhi.)

Subject: Lok Sabha Unstarred Question no. 1661 dated 04.03.2025 regarding the **Violation of Environmental Norms** - reg.

महोदय / Sir,

With reference to your communication, dated 04th March, 2025 regarding 'Violation of Environmental Norms', I am directed to inform that the parliamentary questions sought under the Lok Sabha Unstarred Question no. 1661 dated 04.03.2025 does not pertain to BSI. Therefore, the reply from BSI may be treated as **NIL**.

This issues with the approval of Director (I/C), Botanical Survey of India.

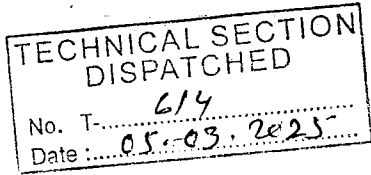
सधन्यवाद/ Thanking you,

भवदीय/Yours sincerely

(एस. एस. दाश / S. S. Dash)

वैज्ञानिकएफ/ Scientist 'F'

(प्रभारी, तकनीकीअनुभाग / In-charge, Tech. Section)

प्रेषित/DESPATCHED
06.03.25

भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

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फाइल संख्या/ File No.: BSI- 286/1 (Parl.) / 2021 -Tech./88

दिनांक/Date : 5TH March, 2025

सेवा में / To

The Secretary

Ministry of Environment, Forest and Climate Change

Indira Paryavaran Bhawan, Jor Bagh Road

New Delhi - 110003

(Kind attention: Shri. Chiranjib Mridha, US, MoEF&CC, New Delhi.)

Subject: Lok Sabha Unstarred D No. 4391 dated 25.02.2025 regarding the Violation of Environmental Norms - reg.

महोदय / Sir,

With reference to your communication, dated 25th February, 2025 regarding 'Violation of Environmental Norms'. I am directed to inform that the parliamentary questions sought under the Lok Sabha Unstarred D No. 4391 dated 25.02.2025 does not pertain to BSI. Therefore, the reply from BSI may be treated as NIL.

This issues with the approval of Director (I/C), Botanical Survey of India.

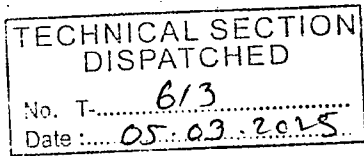
सधन्यवाद/ Thanking you,

भवदीय/Yours sincerely

(एस. एस. दाश / S. S. Dash)

वैज्ञानिकएफ/ Scientist 'F'

(प्रभारी, तकनीकीअनुभाग / In-charge, Tech. Section)



Technical

Sudhir P

4/3/2025

2/25/25, 3:56 PM

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LOK SABHA

Ministry: ENVIRONMENT, FOREST AND CLIMATE CHANGE

Sitting on: 10/03/2025

Question Type: UNSTARRED

D.No : 4391

Violation of Environmental Norms

Will the Minister of ENVIRONMENT, FOREST AND CLIMATE CHANGE

- (a) the details regarding aim and objective of National Green Tribunal (NGT);
- (b) the details of machinery available to check environmental norms/violations endangering wild life or green cover from various parts of the country;
- (c) whether suo-moto action is also initiated against the persons or state authorities who may be responsible for their actions or inactions in such violations; and
- (d) whether there are any exemplary punishments etc. imposed against them in the past, if so, the details thereof?

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25/02/25

JSCRA

25/2/2025

Mridha
25/02/25

22/05/2025
25/2/25

E.F.(L.B)

Pl seek input from concerned

US(P/L)

25/2/25

27/2

60(124)

(चिरंजीव मृधा)
(CHIRANJIB MRIDHA)
अवर सचिव/Under Secretary,
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min. of Environment, Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

Send a nil report

4/3/2025

TECHNICAL SECTION, OFFICE OF DIRECTOR, BSI, M.F.&C
Dy. No. T-66
Date. 05.03.2025

Technical

Ministry of Environment, Forest and Climate Change
Parliament Section

Jal Wing, 1st Floor

Dated : 04/03/2025

Lok Sabha

Unstarred Question No: 1661 Monday, Dated: 10/03/2025

Violation of Environmental Norms

1661. Shri Anil Yeshwant Desai:

Will the Minister of ENVIRONMENT, FOREST AND CLIMATE CHANGE

be pleased to state:

- (a) the details regarding aims and objectives of National Green Tribunal (NGT);
- (b) the details of machinery available to check violations of environmental norms endangering wildlife or green cover from various parts of the country;



- (c) whether suo-moto action is also initiated against the persons or State authorities who may responsible for their actions or inactions in such violations, if so, the details thereof; and
- (d) whether there are any exemplary punishments etc. imposed against them in the past, if so, the details thereof? //

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Officer Concern

JS(RA) 4/3/2025

USC(P2)
Sc. F (KB)
4/3/25



04.03.2025

SO/US (Parliament)

(अभिमान्यु कुमार शर्मा)
(ABHIMANYU KUMAR SHARMA)
अनुभाग अधिकारी/Section Officer
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min. Environment, Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi