

Biodiversity Assessment :

So far MPCC-RC has conducted detailed **biodiversity assessment** of flora and fauna in five different locations in Maharashtra. Biodiversity assessment with a focus on getting local people to become more aware and involved in the conservation and sustainable use of their natural resources is one of the main thrust areas of MPCC-RC.

One aspect of this is documentation of community knowledge of medicinal plants and biodiversity through **People's Biodiversity Registers**.

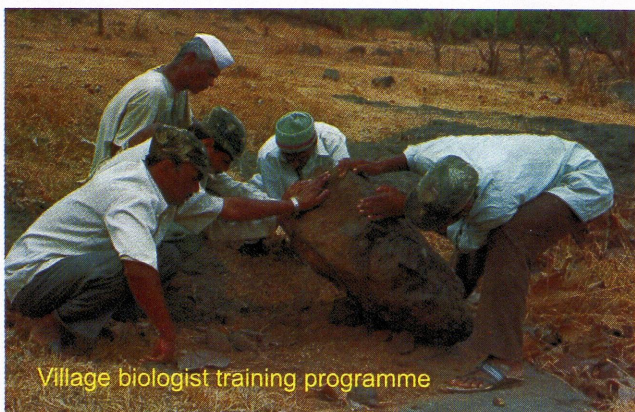
Training and Capacity Building :

MPCC-RC conducts **training programmes** and workshops for various government agencies, village level workers, local healers as well as members of local management committees and self help groups of various different MPCAs on medicinal plant conservation, sustainable use, cultivation techniques and simple processing.

Another important activity is training a team of **experienced village biologists** who are mainly tribals and local healers dependant on the forest. This team works on identification, sourcing and conservation of important plant germplasm, documentation, surveys, as well as monitoring of local plant and animal biodiversity making the



Aerides maculosum
an epiphytic orchid.



Village biologist training programme

Best use of their knowledge and skills. Often local healers (Vaidus and Dais) have special training programmes linked to biodiversity.

Training programmes for women from MPCA villages is mainly pertaining to sustainable self-utilization of locally available medicinal plants.

Innovative funding mechanisms like seed grants to be utilized as a **revolving fund** for **income generation activities** of womens self help groups.

Database :

MPCC-RC is currently developing a database on Medicinal, Aromatic and Dye yielding plants for Maharashtra. The database includes aspects like correct nomenclature, medicinal properties, usage, current distribution, cultivation potential and techniques etc.

Market Research & Cultivation :

Assisting the State Forest Department and Horticulture Department to assess demand of commercial users for medicinal plant species. After conducting surveys of market trends in medicinal plants MPCC-RC works out which plants are to be recommended for cultivation and conservation.

MPCC, is helping local farmers to cultivate lesser-known medicinal plants in different agro-climatic

zones in Maharashtra. Many of the plants being grown have rarely been taken up for cultivation in the past due to lack of knowledge about their cultivation practices or difficulty in propagation.



For further details contact:

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Supported by: UNDP - MoEF; Sir Dorabjee Tata
Trust (SDTT); MISERIOR; Department of
Science & Technology (DST); Horticulture Dept
& Maharashtra State Forest Department (MSFD).

Medicinal Plants Conservation Centre - Rural Communes

Introduction :

The Medicinal Plants Conservation Centre, Pune was established by Rural Communes in 2000 for working on conservation and sustainable utilization of medicinal plants in Maharashtra.

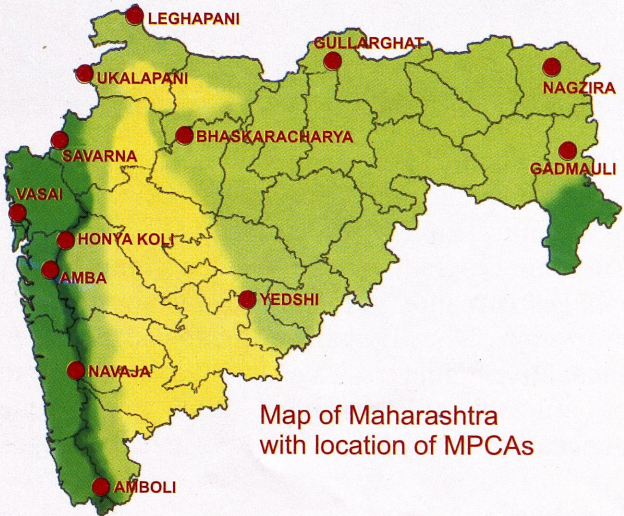
In-situ Conservation :

The Government of India, Ministry of Environment and Forests (MoEF) is making concerted efforts to conserve the gene pool of wild medicinal plants through a network of conservation areas in the country. As a follow up of efforts initiated in 1997 in 3 areas in Maharashtra supported by Sir Dorabjee Tata Trust (SDTT), the United Nations Development Programme (UNDP) assisted the launch of the *in-situ* conservation project in Maharashtra and Andhra Pradesh. The Maharashtra State Forest Department (MSFD) helped implement the UNDP-CCF-1 project on "Medicinal Plants Conservation and Sustainable Utilization" working alongside local communities and NGO's to document, protect and manage a network of 13 Medicinal Plants Conservation Areas (MPCAs) in Forest habitats. These 13 areas included the initial 3 areas established in 1997.



Approach :

- Thirteen Medicinal Plants Conservation Areas (MPCAs) in different forest types and covering variations in altitude, geology etc. have been established.
- Prioritizing medicinal plants in Maharashtra for focused conservation action.



- Notification of MPCAs by the forest Department
- Conducting detailed botanical documentation of MPCAs including collection of basic ecological data.
- Developing action plans for specific recovery and enrichment programme with respect to critically endangered and economically important species.
- **Involving local people** in conservation of medicinal plants while **ensuring that they benefit** through schemes for sustainable utilization of medicinal plants.

Activities :

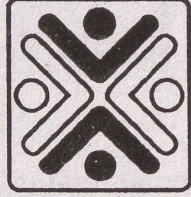
Community mobilisation of all people living in

areas adjacent to and dependant on the MPCAs is a very important part of the approach. Apart from just the MPCA areas MPCC-RC team members work in other areas where local people are dependant on natural resources and help them with put their knowledge on bio-diversity into use for them to earn a decent and eco-friendly livelihood.

The **medicinal plants seed network** is an informal network of farmers, seed suppliers, MSFD as well as the community from villages adjoining different MPCAs in Maharashtra. The primary function of this network is to enable farmers and those interested in growing medicinal plants to obtain correctly identified planting material especially seeds of medicinal, aromatic and dye plants from various different sources in and outside Maharashtra.

Encouraging local people to raise **nurseries** of medicinal plants for plantation and sale. Also establishment of community herbal gardens in rural areas and **home herbal gardens** especially in urban areas in order to increase awareness about medicinal plants in all sections of society and give those who are interested an opportunity to pursue their interest. As of late MPCC-RC is helping some Ayurvedic doctors to source and procure authentic material and also setting up links with farmers in this regard.





“ नागरी गृह औषधी वनस्पती लागवड प्रकल्पाची पार्श्वभूमी ”

A brief note on the “Urban Home Herbal Garden” Initiative

हजारो वर्षांपासून आपल्या देशाला समृद्ध औषधी वनस्पतींचा वारसा लाभला आहे. परंतु त्यांच्या संवर्धनाविषयी योग्य अभ्यासाची सुरुवात मात्र गेली तीस वर्षांपासून झाली आहे. महाराष्ट्राद्वारे १९९७ साली ‘सर दोराबजी टाटा ट्रस्ट’ यांच्या अर्थ साह्याने औषधी वनस्पती संवर्धन कार्यक्रम वनविभागाच्या सहकार्याने संरक्षित वनांमध्ये सुरू झाला. सदर कार्यक्रमातील संरक्षित केलेल्या भागाला औषधी वनस्पती संवर्धन क्षेत्र (MPCA) असे संबोधण्यात आले. सन २००० पासून ‘भारतीय वने व पर्यावरण मंत्रालय’ यांच्या मार्फत व ‘युनायटेड नेशन डेव्हलपमेंट प्रोग्राम’ यांच्या अर्थसाह्याने एकूण १३ ठिकाणी महाराष्ट्रामध्ये सदर क्षेत्रे संरक्षित करण्यात आली. ‘औषधी वनस्पती संवर्धन केंद्र - रूरल कम्युन्स’ (MPCC-RC) आणि ‘महाराष्ट्र राज्य वनविभाग’ यांच्या एकत्रित सहयोगाने हा कार्यक्रम राबविण्यात आला. याकरिता ‘एफ. आर. एल. एच. टी’ या संस्थेचे मोलाचे योगदान लाभले. औषधी वनस्पतींचे त्यांच्या नैसर्गिक ठिकाणी संवर्धन (Natural Habitat) हा या कार्यक्रमाचा मुख्य उद्देश होता. व त्यासाठी स्थानिक लोकांचा सहभाग महत्त्वाचा होता. या प्रकल्पामध्ये स्थानिय स्वयंरोजगार, परंपरागत ज्ञानाचे पुनरुज्जीवन आणि सदर क्षेत्रांमध्ये अढळणा-या वनस्पतींचा शास्त्रीय पद्धतीने अभ्यास करून त्यांचा औषधी उपयोग व इतर बाबीसंबंधी माहिती संग्रह तयार करणे असे कार्यक्रम राबविण्यात आले.

या कार्यक्रमाच्या यशानंतर, केंद्रसरकारच्या ‘विज्ञान व तंत्रज्ञान विभागाने (DST)’ भारतामध्ये औषधी वनस्पतींचे महत्व पटवून देण्यासाठी “नागरी गृह औषधी वनस्पती लागवड” ही संकल्पना मांडली व त्यासाठी पुणे शहराची प्रारंभिक पथदर्शी प्रकल्पासाठी निवड करण्यात आली. त्यामध्ये समाजातील सर्व स्तरातील नागरीकांचा समावेश करावयाचा असून पुढील प्राथमिक उद्दिष्टे ठरविण्यात आली आहेत. भारतातील पारंपारीक औषधी पद्धतीमध्ये येणा-या औषधी वनस्पती व त्यांचे उपयोग या बाबत जागरूकता निर्माण करणे. सहभागी नागरीकांना औषधी वनस्पतींची जोपासना आणि वापर याकरिता प्रशिक्षित करणे. स्थानिक संस्था, शाळा, कॉलेज इ. च्या मदतीने मार्गदर्शक ठरेल असे औषधी वनस्पती उद्यान व रोपवाटिका तयार करणे आणि त्यांना संबंधीत कार्यक्रमात सहभागी करणे, त्यायोगे आपल्याकडील अमूल्य औषधी वनस्पतींची शाश्वत जपणूक व त्यांच्या योग्य उपयोगाचा प्रसार होईल.

या कार्यक्रमामध्ये, विशिष्ट औषधी गुण असणा-या तसेच कुंडीमध्ये अथवा जमिनीमध्ये लावता येणा-या वनस्पतींचे आजारानुसार १० ते १२ प्रकारचे संच उपलब्ध करून देण्यात येतील. हे संच सर्वसाधारण आजारानुसार असतील. या संच्यामध्ये वापरानुसार व सोईनुसार वनस्पतींची निवड नागरीक करू शकतात. ‘औषधी वनस्पती संवर्धन केंद्र’ मार्फत औषधी वनस्पतींचा वापर, लागवड, वृद्धी तंत्र याबाबतचे संपुर्ण मार्गदर्शन आणि सहकार्य, पुणे शहर आणि आजूबाजूच्या परिसरातील नागरीकांना करण्यात येईल. शेवटी सदर कार्यक्रमाचा उद्देश हा औषधी वनस्पतींची आवड असणा-यांना, आपल्या बगीचाला वेगळे स्वरूप देऊ इच्छिणा-यांना, आणि महागड्या औषधाऐवजी सुरक्षित, घरगुती व दुष्परिणामवरहित औषधांचा वापर करू इच्छिणा-यांना मदत करणे असाच राहिल.

A brief note on the Urban Home Herbal Garden Initiative

People in India have been using medicinal plants for thousands of years. Surprisingly, serious efforts concerning medicinal plants conservation & development were initiated only as late as the early 1980s.

A major medicinal plants conservation programme in Maharashtra was initiated in 1997 first in 3 Reserve Forest areas supported by the Sir Dorabjee Tata Trust and later in the year 2000 in 10 other Reserve Forest areas designated as Medicinal Plants Conservation Areas (MPCAs). This programme from 2000 onwards, was a UNDP-Ministry of Environment & Forests (MOEF) programme jointly implemented by the Maharashtra State Forest Department & the Medicinal Plants Conservation Centre- Rural Communes. The coordinating agency for this programme was the Foundation for Revitalization of Local Health Traditions (FRLHT). The basic focus of this programme was, -Conservation of medicinal plants in the wild; Evolving sustainable livelihood enterprises; Revitalization traditional Knowledge systems; and Intensive botanical survey & creation of a medicinal plants database.

Taking the success of the MOEF-UNDP programme into consideration, an inter ministerial meeting was convened by the Ministry of Environment & Forests in April 2003 to take all stakeholders on board. These included the Planning Commission, Ministries/ Depts. like HRD, Ministry of Health & Family Welfare (Dept of ISM), ICAR, CSIR, DBT & the Department of Science and Technology (DST).

DST adopted the urban intervention component at this meeting. After a certain amount of deliberation, it was felt that Pune was a suitable city for the launch of the Urban Home Herbal Garden initiative in India. Based on the experiences from the project in Pune, this initiative will spread through awareness and similar activities in other cities including Jammu, Dehra Dun, Kolkatta, Chennai and Guwahati.

The main objectives of this initiative, which is targeted at all sections of society are-

To promote greater awareness about medicinal plants and traditional herbal medicines of the recognized Indian Systems of Medicine (ISM)

To promote a user/client-base for herbal treatment/medicinal formulations among this influential opinion building segment of the population

To motivate urban households to grow and use medicinal plants for health care and for the management of common ailments

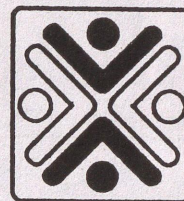
To promote the involvement of urban Institutions, schools, colleges and other Agencies in setting up of Medicinal Herb Gardens and other aspects of the Programme so as to further popularise herbal medicines and generate greater public involvement

The backbone of the programme is a series of sets of ten to twelve potted medicinal plants for home cultivation. These different sets will vary depending on the kinds of simple ailments they are meant to treat. Based on these sets, citizens of Pune can adapt and modify the actual cultivation and plants selected depending on their need and convenience. MPCC-RC will be providing backup and technical guidance in terms of uses, cultivation and propagation techniques as well as developing a network of interested herbal cultivators in and around Pune. The vision is that this initiative should help those who wish to earn a living from medicinal plant cultivation, give garden enthusiasts a whole new angle and finally directly benefit those who either cannot afford expensive medicines or prefer herbal remedies out of choice.

After the initial three-year project period, the newly formed Medicinal Plants Conservation Centre & Trust will look after the programme.

MEDICINAL PLANTS CONSERVATION CENTRE
RURAL COMMUNES

2, Taj Apartments, 97-A/1-8, Salisbury Park,
(Next to Pune Adventist Hospital), PUNE 411 037.
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RURAL COMMUNES

Disease wise Medicinal Plants Packages: (आजाराप्रमाणे औषधी वनस्पतींची विभागणी)

Ailment आजार	Marathi Name मराठी नाव	Scientific Name शास्त्रीय नाव
Taap तापविकार (Fever)	Tulas तुळस	<i>Ocimum tenuiflorum</i>
	Kalmegh काळमेघ	<i>Andrographis paniculata</i>
	Gulvel गुळवेल	<i>Tinospora cordifolia</i>
	Sunth सुंठ	<i>Zingiber officinale</i>
	Halad हळद	<i>Curcuma longa</i>
	Gavati Chaha गवतीचहा	<i>Cymbopogon citratus</i>
	Satap सताप	<i>Ruta chalepensis</i>
	Kapur Tulas कापुर तुळस	<i>Ocimum killimandscharicum</i>
Khokla खोकला (Cough)	Nagvel नागवेल	<i>Piper betle</i>
	Lendi Pippali लेंडी पिपळी	<i>Piper longum</i>
	Adulsa अडुळसा	<i>Justicia adhatoda</i>
	Kosth Kulinjan कोष्ठ कुळीजन	<i>Alpinia galanga</i>
	Vekhand वेखंड	<i>Acorus calamus</i>
Julab जुलाब (Diarrhoea)	Akkalkara अक्कलकार	<i>Spilanthus calva</i>
	Kadhipatta कडीपत्ता	<i>Murraya koenigii</i>
	Sunth सुंठ	<i>Zingiber officinale</i>
	Durva दुर्वा	<i>Cynodon dactylon</i>
	Dalimb डार्लिंब	<i>Punica granatum</i>
	Lazalu लाजालू	<i>Mimosa pudica</i>
Pot Vikhar पोट विकार Gastrointestinal tract – disorders	Pudhina पुदीना	<i>Mentha arvensis</i>
	Sabza सब्जा	<i>Ocimum basilicum</i>
	Sonamukhi सोनामुखी	<i>Cassia senna</i>
	Erand एरंड	<i>Ricinus communis</i>
	Korphad कोरफड	<i>Aloe vera</i>
	Kadhipatta कडीपत्ता	<i>Murraya koenigii</i>
	Makadshingi माकडशिंजी	<i>Caralluma adscendens</i>
	Paanowa पानओवा	<i>Plectranthus amboinicus</i>
Twacha Vikhar त्वचा विकार (Skin disorder)	Korphad कोरफड	<i>Aloe vera</i>
	Anantmul अनंतमुळ	<i>Hemidesmus indicus</i>
	Bawchi बावची	<i>Cullen corylifolia</i>
	Halad हळद	<i>Curcuma longa</i>
	Khas खस/वाळा	<i>Vetiveria zizanioides</i>
Shaktivardhak शक्तीवर्धक (General Tonic)	Varahikand वराहीकंद	<i>Dioscorea alata</i>
	Ashwagandha अश्वगंधा	<i>Withania somnifera</i>
	Shatavari शतावरी	<i>Asparagus racemosus</i>
	Kali Musali काळीमुसळी	<i>Curculigo orchoides</i>
	Karanda कारंदा	<i>Dioscorea bulbifera</i>
	Somvel सोमवेल	<i>Sarcostemma viminalis</i>

औषधी वनस्पती संवर्धन केंद्र - रुरल कम्युनिटी पुणे.

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Registered under "The Societies Registration Act, 1860, Reg. No. Bom. 137/1976 G.B.B.S.D. and under "The Bombay Public Trust Act. 1950" No. F-3978 (Bombay)

	Jivanti जिवन्ती	<i>Holostemma annulare</i>
	Kavachbeej कवचबीज	<i>Mucuna pruriens</i>
Paliche Vikar/Straav पाळीचे विकार / स्त्राव (स्त्रीरोग) (Menstrual Disorders)	Lazalu लाजळू	<i>Biophytum sensitivum</i>
	Adulsa अडुळसा	<i>Justicia adhatoda</i>
	Lazalu लाजळू	<i>Mimosa pudica</i>
	Durva दुर्वा	<i>Cynodon dactylon</i>
	Khas / Wala खस/वाळा	<i>Vetiveria zizanioides</i>
	Ahliv हळीव	<i>Lepidium sativum</i>
	Jaswand जास्वंद	<i>Hibiscus rosa-sinensis</i>
	Mendi मेंहदी	<i>Lawsonia inermis</i>
Kesache Vikhar केसांचे विकार (Hair Disorders)	Jaswand जास्वंद	<i>Hibiscus rosa-sinensis</i>
	Korphad कोरफड	<i>Aloe vera</i>
	Maka माका	<i>Eclipta prostrata</i>
	Mandukparni मंडुकपर्णी	<i>Centella asiatica</i>
	Kapur Kachri कापुर काचरी	<i>Curcuma sp.</i>
Mutramarg Vikhar मुत्रमार्ग विकार (Urinary Problems)	Punarnava पुर्नवा	<i>Boerhavia repens</i>
	Panphuti पानफुटी	<i>Kalanchoe pinnata</i>
	Tulas तुळस	<i>Ocimum tenuiflorum</i>
	Sabza सब्जा	<i>Ocimum basilicum</i>
	Aaghada अघाडा	<i>Achyranthus aspera</i>
	Panacha owa पानओवा	<i>Plectranthus amboinicus</i>
Smrutivardhak स्मृतीवर्धक (memory Enhancers) (Mental disorder)	Shankpushpi शंखपुष्पी	<i>Evolvulus alsinoides</i>
	Bramhi ब्राम्ही	<i>Bacopa monnieri</i>
	Mandukparni मंडुकपर्णी	<i>Centella asiatica</i>
	Vekkhand वेखंड	<i>Acorus calamus</i>
	Malkanguni (Jyotishmati) मालकांगुणी / ज्योतिषमती	<i>Celastrus paniculatus</i>
	Gulvel गुळवेल	<i>Tinospora cordifolia</i>
Madhumeha मधुमेह (Diabetes)	Bedki-cha-pala बेडकी चा पाला	<i>Gymnema sylvestre</i>
Vazan Kami Karne वजन कमी करणे (To reduce weight)	Ashwagandha अश्वगंधा	<i>Withania somnifera</i>
	Aaghada अघाडा	<i>Achyranthus aspera</i>
	Punarnava पुर्नवा	<i>Boerhavia repens</i>
	Vekkhand वेखंड	<i>Acorus calamus</i>
	Panacha owa पानओवा	<i>Plectranthus amboinicus</i>

दशमुळातील औषधी वनस्पती

नं.	मराठी व संस्कृत नाव	शास्त्रीय नाव	औषधी उपयोग
१	बेल / बिल्व	<i>Aegle marmelos</i>	वातरोग, जुलाब, पोटदुखी
२	पाडळ / पाटला	<i>Stereospermum colais</i> OR <i>Stereospermum chelenoides</i>	वातरोग, रक्तस्राव, हातपाय जळजळ
३	टेदू / श्योनक	<i>Oroxylum indicum</i>	वातरोग, हृदयविकार, तापविकार
४	शिवण / काश्मिरी	<i>Gmelina arborea</i>	वातरोग, चक्कर येणे, सुज
५	अग्निमंथ	<i>Clerodendrum multiflorum</i> OR <i>Premna corymbosa</i>	वातरोग, सुज, मुळव्याघ
६	चिचाडी / बृहती	<i>Solanum anguivi</i>	वातरोग, त्वचा विकार, दमा
७	भुईरिंगणी / कंटकारी	<i>Solanum virginianum</i>	वातरोग, दातदुखी, खोकला, दमा
८	गोखरू / जोक्षूर	<i>Tribulus terrestris</i>	वातरोग, मूत्रविकार, हृदयविकार
९	सालवन / शालिपर्णी	<i>Desmodium gangeticum</i>	ताप, वातरोग, व्रणरोधक, ज्वरनाशक
१०	पिठवण / पृश्निपर्णी	<i>Uraria picta</i>	वातरोग, ताप विकार, उलटी होणे.
वरिल दहा वनस्पतींच्या मुळापासून "दशमुलारिष्ट" हे औषध तयार होते.			
औषधी उपयोग : वातविकार, प्रसूतीपश्चातचे विकार, स्त्रीरोग, दमा इत्यादी.			

Official Address	Medicinal Plants Nursery Address
Medicinal Plants Conservation Centre – Rural Communes (MPCC-RC), 2, Taj Apartments, Next To Pune Adventist Hospital, Salisbury park, Pune-37. Contact – 020, 24269418, 24270216 Email : rcmpcc@vsnl.com	Queen Mary's Technical Institute (QMTI), For Disabled Soldiers, Park Road, Behind Kirkee RLY. STN, Range Hills, Pune – 20. Contact: Mr. Cruj 9370139009, Ravi 9881038382, Bhanudas 9881872611.

कार्यालय पत्ता :	औषधी वनस्पती रोपवाटीका पत्ता :
औषधी वनस्पती संवर्धन केंद्र - रुरल कम्युन्स २, ताज अपार्टमेंट, पुणे अँडव्हेनटीस्ट हॉस्पिटल जवळ, सॅलिसबरी पार्क, पुणे- ३७. संपर्क - ०२०, २४२६९४१८, २४२७०२१६	क्विन मेरी टेकनिकल इंस्टिट्यूट (अपंग सैनिकांसाठी) पार्क रोड, खडकी रेल्वे स्टेशनच्या पाठीमागे, रेंज हिल्स, पुणे - २० Contact: Mr. Cruj 9370139009, Ravi 9881038382, Bhanudas 9881872611.

औषधी वनस्पती संवर्धन केंद्र - रुरल कम्युन्स पुणे.