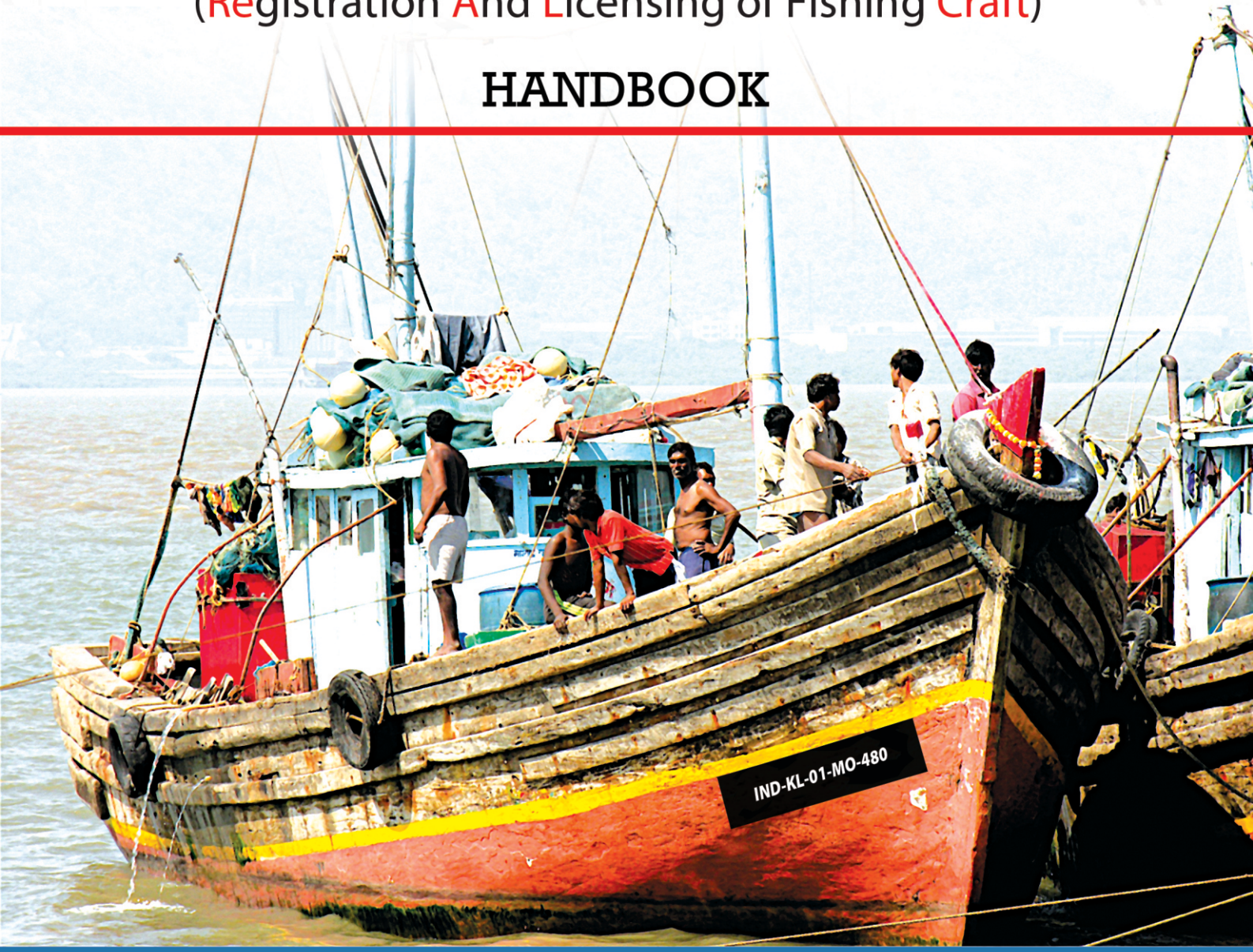
सत्यमेव जयते

ReALCraft

(Registration And Licensing of Fishing Craft)

HANDBOOK



Document No:NIC-FISHNET-REALCRAFT-HB-001 VERSION 1.0

Fisheries Division
Department of Animal Husbandry, Dairying & Fisheries
Ministry of Agriculture
Government of India

Fisheries Informatics (FISHNET) Unit
Agricultural Informatics Division
National Informatics Centre
Department of Information Technology
Ministry of Communications & IT
Government of India

Application Designed & Developed by NIC

Overview

The Department of Animal Husbandry Dairying & Fisheries (DADF) is one of the Departments in the Ministry of Agriculture and came into existence w.e.f. 1st February, 1991, by converting two divisions of the Department of Agriculture and Cooperation namely Animal Husbandry and Dairy Development into a separate Department. The Fisheries Division of the Department of Agriculture and Cooperation and a part of the Ministry of Food Processing Industries were later transferred to this Department w.e.f. 10th October, 1997.

The Department is responsible for matters relating to livestock production, preservation and protection from disease and improvement of stocks and dairy development, and also for matters relating to the Delhi Milk Scheme and the National Dairy Development Board. It also looks after all matters pertaining to fishing and fisheries, inland and marine.

The Department advises State Governments/Union Territories in the formulation of policies and programmes in the field of Animal Husbandry, Dairy Development and Fisheries.

Genesis

The Department of Animal Husbandry, Dairying & Fisheries (DADF), in collaboration with National Informatics Centre (NIC), has been taking various measures to promote the use of Information and Communication Technologies (ICTs) in the Department since 1995. This includes, Computerization of Sanitary Import Permit, National Project on Rinderpest Eradication, Bird Flu, and Livestock Census etc.

The Department of Animal Husbandry, Dairying and Fisheries (DADF) and National Informatics Centre (NIC) have planned to establish ìFisheries Information System Network (FISHNET)î with an objective to provide a single platform to all the stakeholders for decision support and information access on and for Fisheries Development in India.

Mean while Government of Kerala and NIC - Kerala State joined hands to develop an application to register and monitor all the fishing vessels, operating along the territorial waters of Kerala. The product is built on a piece of legislation - Kerala Marine Fisheries Registration Act (KMFR) and rules framed thereunder. It was launched in 2008 and is successfully running since then.

As per the Act all fishing vessels should be registered either with the Department of Fisheries or MPEDA- a Central Agency- and license obtained. The manual system of issuance of both registration and license certificates was replaced with the digital system. The new system is christened as 'Kerala Model'.

In the wake of the 26/11 Mumbai attack, Government of India prioritised the need for establishing a Coastal Surveillance System (CSS) and took it seriously to watch the movements of all the vessels in the coastal belts of India. Government of India emphasized the need to register all the fishing vessels and other small non fishing vessels and felt the need to streamline the registration regimes adopted by various Central and State legislations such as MS Act (Merchant Shipping Act), MPEDA (Marine Products Export Development Authority),State MFRA (State Marine Fisheris Regulation Act)

A National Workshop was organized by the Department on January 21, 2009 in New Delhi to work out the modalities for developing FISHNET project. Based on the recommendations of the workshop, Govt. of India decided to tune the Kerala model according to MS Act and rollout in all the Coastal States (9) & UTs (4) at the earliest.

ReALCraft

'ReALCraft' is a web enabled work flow based online application system for issuing Vessel Registration Certificate under MS Act and Fishing License Certificate under MFR Act to all the fishing vessels operating along the Indian coast. When ReALCraft is fully operational the Security Agencies and other approved Government machineries would be able to track the status of any registered Vessel at any point of time from anywhere, through internet or SMS. It is a web-enabled solution under open source technology.

Features

- Work flow-based interface – Provide user-friendly workflow based interface for the approval of applications at various levels (entry of application, verification, approval).
- Facility for comparing original documents with the scanned documents .
- Less Paper Concept - Scanned application forms reduces the need of physical movement of the application form to the higher offices for its approval, making the process much either and faster.
- Keeping the history of vessel applications and vessel attributes – System maintains the record of remarks of the officers at various levels during the processing of the application for different services, changed vessel parameters and details of fee submitted etc.
- Barcode for individual certificates for checking its validity.
- SMS Service:
  - Vessel Owners can get status of their application just by sending application reference number through SMS
  - Security Agencies can get Vessel information by sending vessel identification number or registration number or license or permit number or communication equipment number.(EPIRB, SART, DAT) through SMS

- Provision for flash news to officers on impounding details and other important activities.
- Online technical support for software users.
- Role Based Dynamic Menu mapping for the individual user.
- Security features provided at Menu level, Function level, Application Level and Application status level.
- System generates automatic registration number, license number, vessel identification number etc.
- Automated fee calculation, based on type of service and vessel attributes.
- Automatic generation of Engine Numbers for assembled engines which have no engine number.
- Online Help Facility
- Defining office wise administrator for managing users, defining roles
- Maintaining master data and Setting alerts.
- Online support for queries.
- Defining fee details, final approving authority and supporting documents for various services.

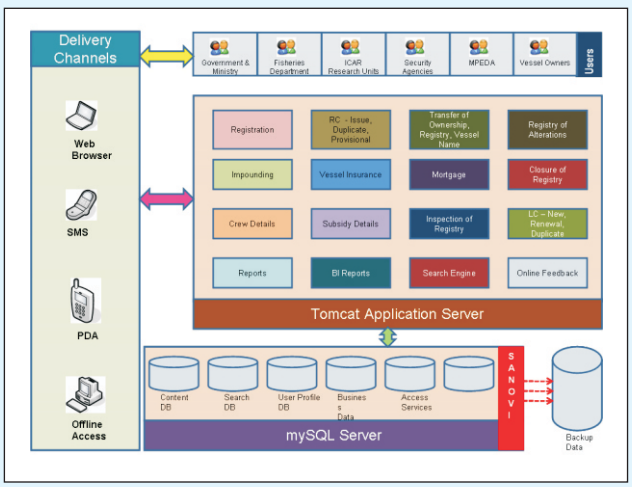
Application Architecture

ReALCraft is developed in LAPP (Linux, Apache, PostgreSQL, PHP) architecture. It has three layers with e-services at the top, Govt. intranet in the middle and functional applications at the bottom.

E-Services layer is the front-end layer, which interacts with citizens and offers services to the citizens. There are several methods, such as touch screen kiosks, Internet, SMS and front end counters by which the citizens can interact with system.

Intranet layer is the Intranet Services layer, which offers lot of collaboration services and tools such as E-Mail, Messaging, bulletin boards etc..

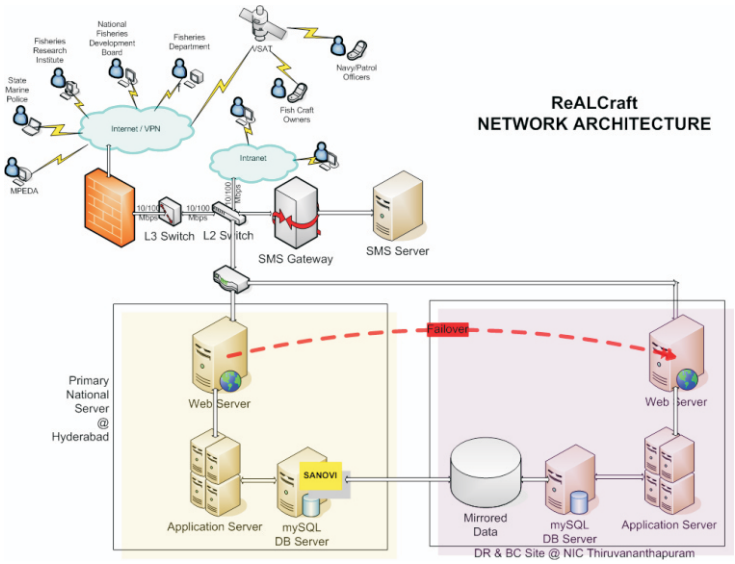
Back Office layer is the key functional area comprising of all the functional modules with which the Government staff will work and carry out the backend operations.



Application Architecture-Fig-1

Network Architecture

- System can be accessed either by Intranet or Internet
- All the servers (Web / Appl. Server, DB Server, Replication Server) are installed at the National Data Centre with maximum security.
- Audited version of the application has been hosted.
- Application servers can be grown horizontally for better response without disturbing the architecture.
- All the facilities available in the Data Centre (such as Firewall, Load balancer etc) are used to the maximum, for security and speed. National
- Backup Servers are placed at the National Data Centre and in NIC for data securityData Centre of Coastal State/ Uts
- .In order to minimize the load of the DB Server and also the threat from Internet, all the Queries / Reports are directed to the replication server.
- SMS queries are directed to the SMS Server



Addional Facilities

- Facility for citizens to get information and down load forms from the site
- Facility for citizens to view MS Act and other relevant information
- Application level security at all levels inducted against unauthorized usage
- User ID, Password and Capcha restricts unauthorized login
- Role driven menu for each User
- Automated Unique Vessel Registration Number
- Automated Unique Engine Number for assembled engines
- System restricts duplicate Engine Numbers
- Registration with photos and Fishing License Certificates
- Provisional Certificates and Temporary Permit for fishing
- Off line applications for security agencies
- Data backup and restore modules for Security Agencies
- Barcode generated and printed in Certificates
- Work flow based application movement for speedy action
- Status of the application is updated to the applicant using SMS facility
- Security agencies get all the relevant information on their finger tips
- Fuel subsidy can be regulated and controlled
- Analytical reports for drilling down information
- MIS reports for monitoring purpose
- Various types of queries to retrieve information
- Documents are scanned and stored.
- Photos of the Vessel Owner and Boat are scanned and stored

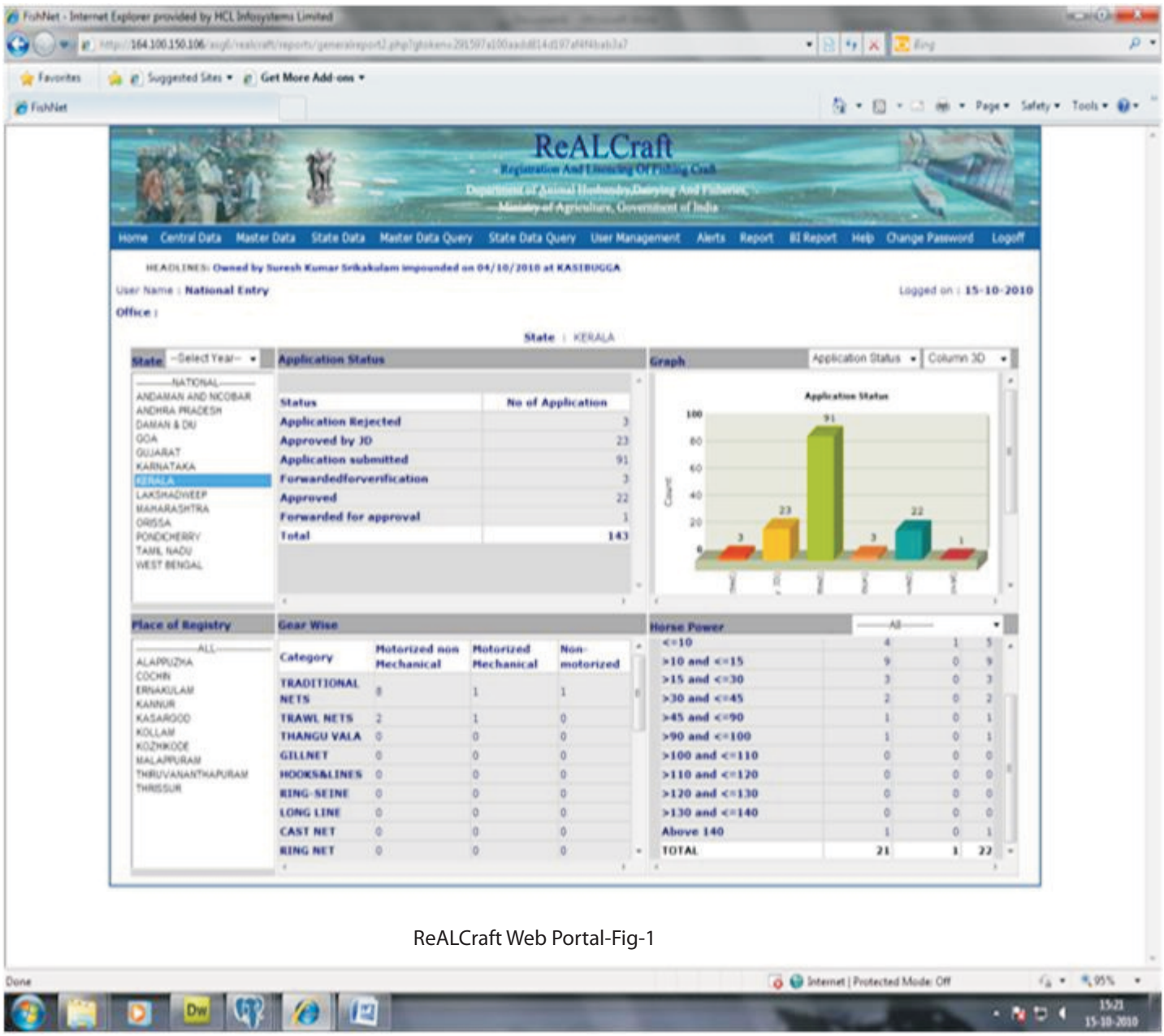
Functionalities

Analytical reports

- More than 40 reports can be generated
- Facility to generate, view and print different types of graphs
- Reports from National level to Places of Registry can be generated
- Monitoring Officers can view different types of reports in a single click

Features

- Work flow based system
- G2C/ G2G/ G2E/ G2B
- Internet Query
- Enquiry option for Citizen
- Services through Internet,Kiosks, Counters and Touch Screen
- SMS Services / Email facility
- Interface for generating engine number for assembled Engine
- Automated Process for RC,LC & Permit
- Bilingual Language support
- Security Features
- 24*7 Availability with disaster recovery



ReALCraft Web Portal-Fig-1

Vessel Search

File Number : OK

Status of Applications Submitted So far

Serial No	Service	Date of Application	Application Status
1	Vessel Registration	15/07/2007	Approved by JD
2	Registry of alterations materially affects dimensions	15/07/2007	Approved by JD
3	Change Vessel Basic Details	11/08/2010	Application submitted

Basic Vessel Details

Name of the craft:	KETTUWANCHI
File Number:	KLF-312
District:	Ernakulam
Base of Operation:	KOCHI
Registration Number and Date:	KLF-04(OM)-192 & 15/07/2007
Vessel Identification Number:	KLF-04-B(OM)-185
Vessel type:	Traditional canoe-mo
Area of Operation:	Territorial Waters
Length/Width/Draft :	4.440/1.500/0.246(in feet)
Hull Material:	Wood
Present Craft Value(in Rs.):	9000
Water Storage Capacity(in Litre):	
Tonnage Capacity(in Tonne):	
Storage Capacity(in Kg):	
When Secured:	
Where Secured:	MUNAMBAM
How Acquired:	Bought by self

Certificate Status

Registration Certificate Status:	Issued

Vessel Owner

Name of Owner:	K.S. LEVEN
Permanent Address :	KADAVIL HOUSE ELAMKUNNAPPUZHA P.O.

Engine Details

Make	Year of Make	Engine Number	HP
Suzuki		527810	2.2

Gear Details

Gear Name :

Crew Details

Crew Name	Address of Crew	Crew Insured
K.S. Leven	KADAVIL HOUSE ELAMKUNNAPPUZHA PIN-682 503	No

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IT Services by National Informatics Centre, Department of Information Technology, Ministry of Communications and Information Technology, Government of India

ReALCraft Web Portal Vessel Search -Fig-1

Vessel Registration Certificate
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Government of India

Ministry of Agriculture
Department of Animal Husbandry, Dairying and Fisheries
Form IV
Merchant Shipping (Registration of Indian Fishing Boats), Amendment rules 2009
(See sub rule(2) of Rule 7)

Certificate of Registry of a Fishing Boat

State: KERALA

Valid Upto: Lifetime Validity

1. Name of Fishing Boat : **RAMEES**
2. Registration Number & Date (രജിസ്ട്രേഷന് നമ്പറും തീയതിയും) : **IND-KL-01-MO-4809 & 15/06/2010**
3. Call Sign (Where Applicable) : - -
4. Port & District where Registered (രജിസ്റ്റര് ചെയ്ത പോര്ട്ടും ജില്ലയും) : THIRUVANANTHAPURAM & Thiruvananthapuram : (തിരുവനന്തപുരം,തിരുവനന്തപുരം)
5. Name of the Owner Permanent Residence or Principal Place of Bussiness. :SUBASH S/oRamees, Erikalaveedu, Poovar P.O

Shares Held (%) : 100.00
Aadhaar (UID) : - -
Coastal Security Number : - -

6. Category of Ownership (Company/Individual/Co-operative society/Government/Hypothetication) : Individual :
7. Area of Operation (ഏരിയ ഓഫ് ഓപറേഷന്) : As prescribed in Merchant Shipping Act 1958 (MS Act)

8. Particulars of Fishing Boat (ബോട്ടിന്റെ വിവരണം)

i)Name & Address of Building Yard (യാനത്തിന്റെ പേരും മേല്വിലാസവും) : Thiruvananthapuram : (- -)

ii)Year of Build/Rebuild of the Boat (നിര്മ്മിച്ച വര്ഷം)	iii)Hull Material (ഹള്ള് മെറ്റീരിയല്)	iv)Length(Mtrs) (നീളം)	v)Breadth(Mtrs) (വീതി)	vi)Depth(Mtrs) (താഴ്ച്ച)
2010	Fibre Glass/ഫൈബര് ഗ്ലാസ്	9.750	1.820	1.210

vii)Engine details (ഇഞ്ചിന് വിവരണം)

Make	Suzuki
Year of Make	2010
Engine Number	00992K-10815
HP	9.9
Name and Address of Manufacturer	Thiruvananthapuram
Number & Diameter of Cylinders	2 & 12.00
Length of Stroke	5.00
Revolution per minute(RPM)/Speed	32

Fuel Used (Capacity in Ltrs) (ഇന്ധനം അളവ്) : Kerosene(35),Petrol(10)

viii)Type of Vessel (യാനത്തിന്റെ തരം) : FIBRE CRAFT : ഫൈബര് ക്രാഫ്റ്റ്

IND-KL-01-MO-4809

Vessel Registration Certificate
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ix)Number of Masts/Bulk Heads/Holds	: 3 / 3 / 4
x)Tonnage Capacity (Gross Tons) (ടണ്ണേജ് കപ്പാസിറ്റി)	: 3
xi)Fishing Gear (മീന് വല)	: TRADITIONAL NETS,GILLNET. : നാടന് വല,ഗില്നെറ്റ്.

9. Communication Equipment

Name of the Equipment	Device Number	Make & Model
1. IEM	00-879	GARMIN,2009

10. Life Saving Appliances

Name of the Equipment : Flags.

11. Number of Crew : :5
(ക്രൂവിന്റെ എണ്ണം)

12. Base of Operation : POOVAR
(ബെസ് ഓഫ് ഓപ്പറേഷന്) : (പൂവാർ)

IND-KL-01-MO-4809

Place : THIRUVANANTHAPURAM
Date : 4/05/2011

Signature and Seal of Registering Authority

Conditions of the Certificate of Registration

1. This certificate of registration is granted under the provisions of Merchant Shipping Act 1958, as amended.
2. Any change in the fishing boats,name,other markings,layout,design,capacity of the vessel should be affected only with the prior approval of the registration authority.
3. The certificate must be produced for inspection on demand by any authorised person.
4. Should the vessel be lost, broken up or rendered unfit for service, this certificate should be surrendered to the Registrar of the Fishing Boat.

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Fishing Licence Certificate

GOVERNMENT OF KERALA

Department of Fisheries

Certificate of Licence of a Fishing Boat

1. Name of the Fishing Boat : **RAMEES**
2. Number & Date of Certificate of Registration (രജിസ്ട്രേഷൻ നമ്പറും തീയതിയും) : **IND-KL-01-MO-4809 & 15/06/2010**
3. Number & Date of Licence (ലൈസൻസിന്റെ നമ്പറും തീയതിയും) : KL-L51260/11 & 04/05/2011
4. Name and Address of the Person/s to whom the Licence is issued (ഉടമസ്ഥന്റെ പേരും മേൽവിലാസവും) :SUBASH S/oRamees, Erikalaveedu, Poovar P.O
5. Particulars of Fishing Vessel Licensed ബോട്ടിന്റെ വിവരണം
   a) Length (Mtrs) നിളം : **9.750** b) Breadth (Mtrs) വീതി : **1.820** c) Depth (Mtrs) താഴ്ച്ച : **1.210**
6. Make and HP of Engine (ഇഞ്ചിൻ വിവരണം)

Make (നിർമ്മാണം)	Year of make (നിർമ്മിച്ച വർഷം)	Engine Number (ഇഞ്ചിൻ നമ്പർ)	HP (എച്ച്. പി)
Suzuki	2010	00992K-10815	9.9

7. Type of Vessel യാനത്തിന്റെ തരം : FIBRE CRAFT : ഫൈബർ ക്രാഫ്റ്റ്
8. Fishing Gear Licensed മീൻ വല : TRADITIONAL NETS,GILLNET : നാടൻ വല,ഗില്നെറ്റ്
9. Specified Area for which the Licence is issued ഏരിയ ഓഫ് ഓപറേഷൻ : As prescribed in Merchant Shipping Act 1958 (MS Act)
10. Period for which the Licence is issued (ലൈസൻസിന്റെ കാലാവധി) 04/05/2011 to 02/05/2012

Place : THIRUVANANTHAPURAM
Date : 4/05/2011

Signature and Seal of the Authorised Officer

Fishing Licence Certificate
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Conditions of the Licence

1. This licence is granted subject to the provisions of the Kerala Marine Fishing Regulation Ordinance 1980 12 of 1980 and the rules and orders issued thereunder.
2. The fishing vessel should be operated only within the specified area for which licence is granted.
3. Any change in the layout design capacity of the vessel should be effected only with the prior approval of the Authorised Officer.
4. Any change in the type of gear licensed shall be effected only with the prior approval of the Authorised Officer.
5. It shall be competent for the Authorised Officer or any Officer authorised by him to enter the fishing vessel for the purpose of inspection whether in the waters or on shore.
6. This licence is liable to be cancelled or suspended and the security if any furnished shall be liable to be forfeited in whole or in part for failure to comply with the conditions subject to which the licence has been granted or for contravention of any of the provisions of the Kerala Marine Fishing Regulation Ordinance 1980 or the rules or orders issued thereunder.
7. This licence is also liable to be cancelled or suspended if the licence has been obtained by misrepresentation as to an essential fact.

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Provisional Certificate

GOVERNMENT OF INDIA

MINISTRY OF AGRICULTURE

DEPARTMENT OF ANIMAL HUSBANDRY, DAIRYING AND FISHERIES

PROVISIONAL CERTIFICATE OF REGISTRY

[See rule 17(1)]

This is to certify that Fishing Boat PRASADAM *Official Number* IND-KL-04-MM-863 *of Tons belonging to* JAYACHANDRAN P N ,PAZHAMBILLISSERY, KOTTUVALLIKKAD PO, ALAPPUZHA. *is hereby permitted to ply pending issue of Certificate of Registry.*

This Provisional Certificate shall remain in force for a period of three months with effect from 26/11/2010 *or until the Fishing Boat is granted a Certificate of Registry whichever is earlier.*

Port of ERNAKULAM

Date : 26/11/2010

Signature and Seal of Registrar of Fishing Boat

National Informatics Centre(NIC)

We live in the age of the Information Technology (IT) revolution. The universal acceptance of the power of IT to transform and accelerate the development process, especially in developing economies is indisputable. The rapid advance of Communication technologies, especially the Internet, has enabled governments all over the world to reach out to their most remote constituencies to improve the lives of their most underprivileged citizens.

NIC, under the Department of Information Technology of the Government of India, is a premier Science and Technology organization, at the forefront of the active promotion and implementation of Information and Communication Technology (ICT) solutions in the government. NIC has spearheaded the e-Governance drive in the country for the last three decades building a strong foundation for better and more transparent governance and assisting the governments endeavor to reach the unreached.

NIC has leveraged ICT to provide a robust communication backbone and effective support for e-Governance to the Central Government, State Governments, UT Administrations, Districts and other Government bodies. It offers a wide range of ICT services. This includes NICNET, a Nationwide Communication Network with gateway nodes at about 53 departments of the Government of India, 35 State/UT Secretariats and 603 District collectorates to service ICT applications. NICNET has played a pivotal role in decentralized planning, improvement in Government services, wider transparency of national and local Governments and improving their accountability to the people. NIC assists in implementing ICT projects, in close collaboration with Central and State Governments and endeavors to ensure that state-of the-art technology is available to its users in all areas of ICT.

Project Advisory Committee

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National Informatics Centre	
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Project Coordinators : State Level

NIC State Level Project Coordinators		
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State	Name & Designation of the Coordinator(s)	IP Phone No.
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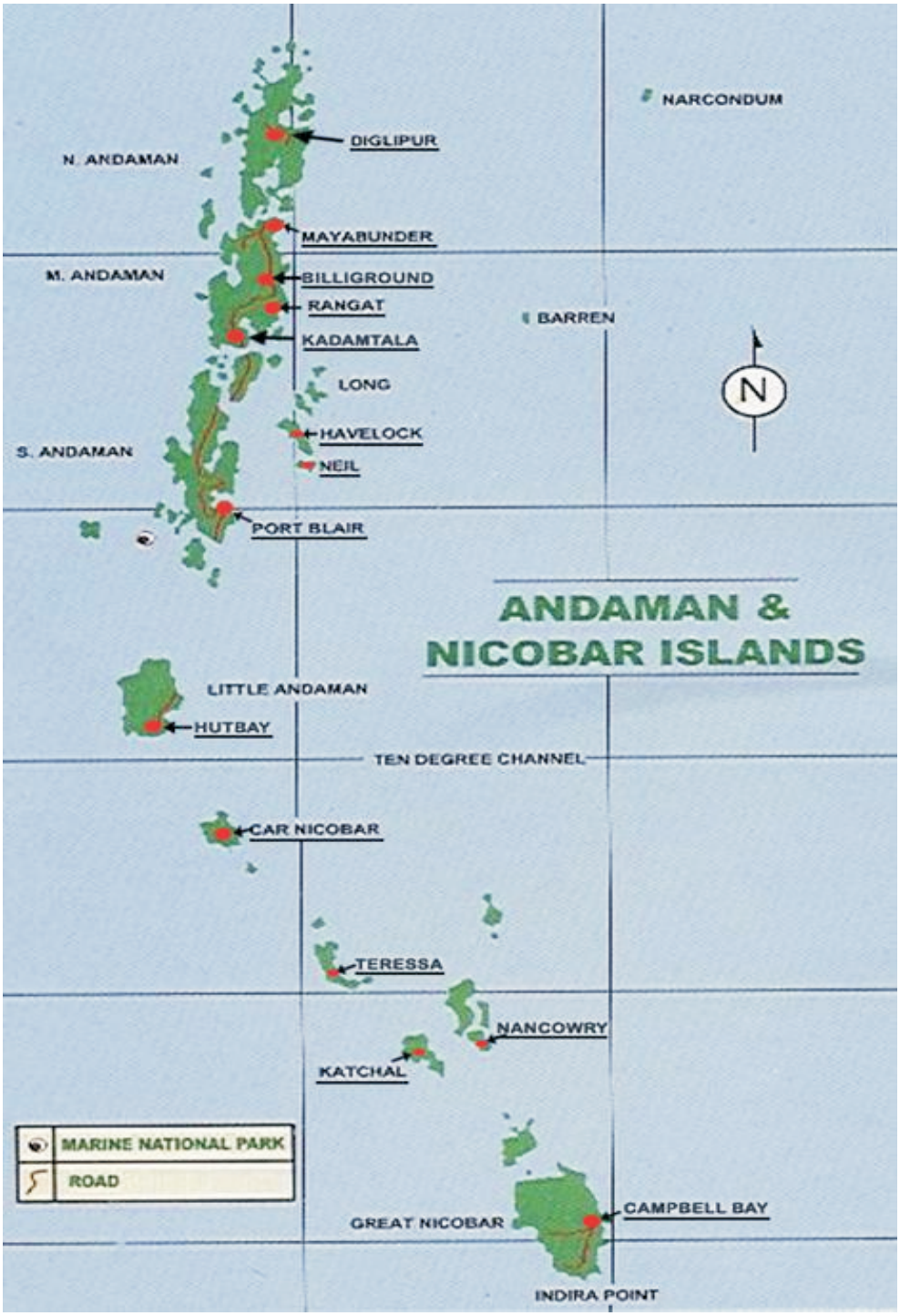
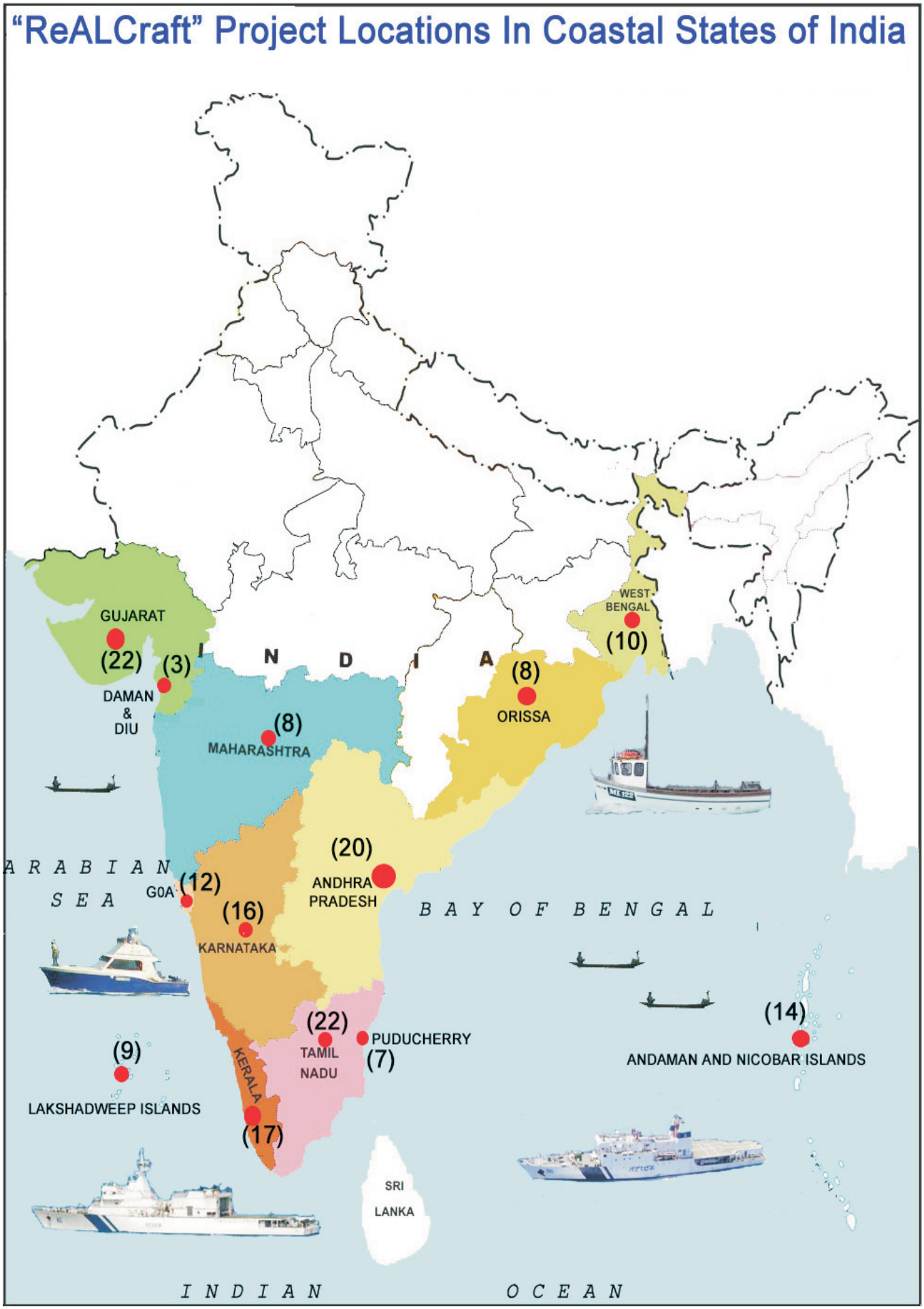
11. Pondicherry	Shri. N.S. Ravichandran, Principal Systems Analyst, E-Mail: ravi.pon@nic.in	
12. Tamil Nadu	1. Smt. S. Gayatri Devi, Senior Technical Director, Ph: 044-28511216 E-Mail: sgayatri@tn.nic.in 2. Sh. M Muthukrishnan, Senior Systems Analyst E-Mail: muthu@tn.nic.in	6136
13. West Bengal	1. Mrs Santa Biswas , Technical Director Ph: 033-23590833 /033-23591969/033-23342859 M:9831854125 IP Phone No: 6150 email : santa.biswas@nic.in 2. Sri Sarat Dhara, Principal Systems Analyst Ph: 9433016887 E-Mail: Sarat.dhara@nic.in	6150

Location Map

ANDAMAN & NICOBAR ISLANDS



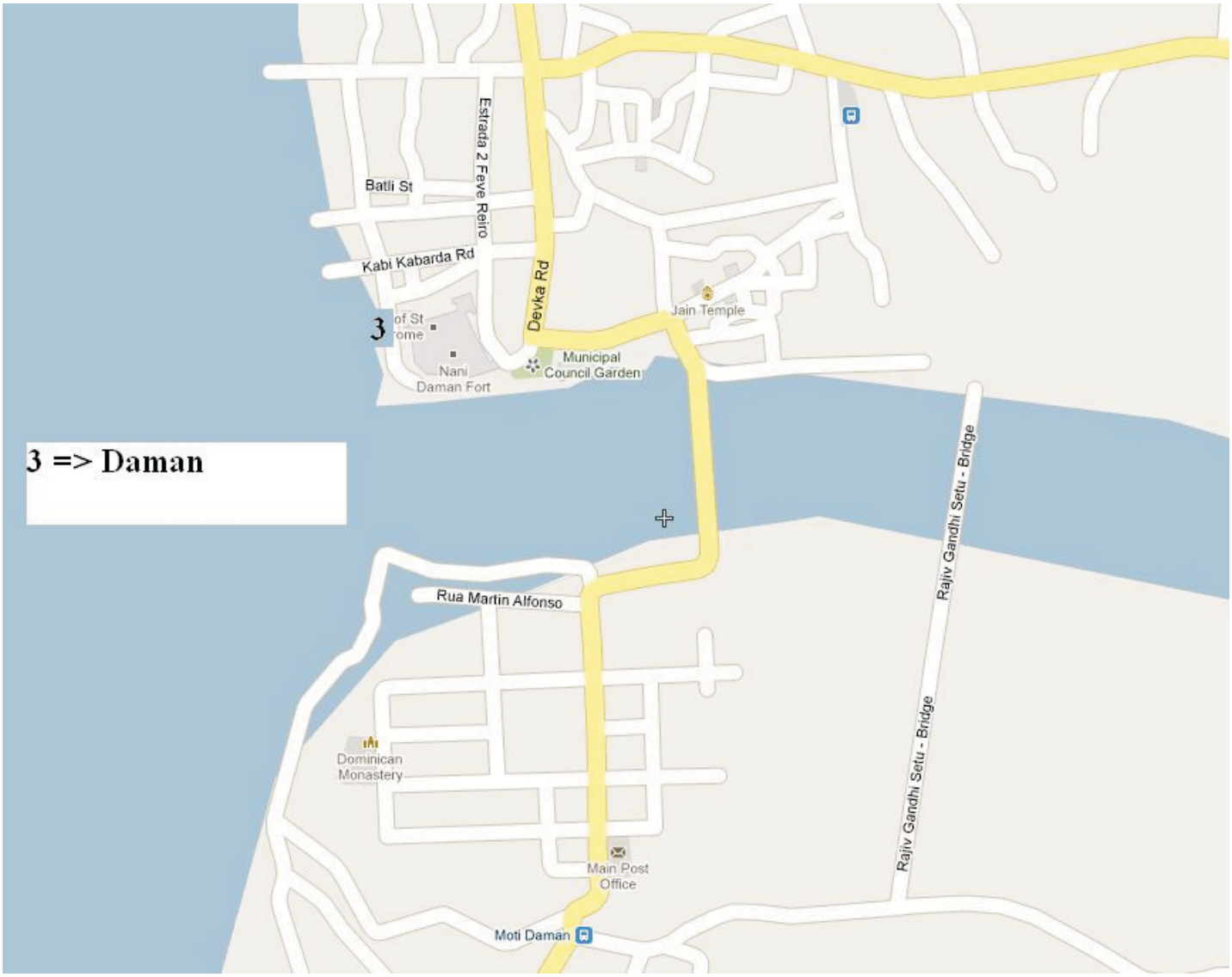
National Location Map



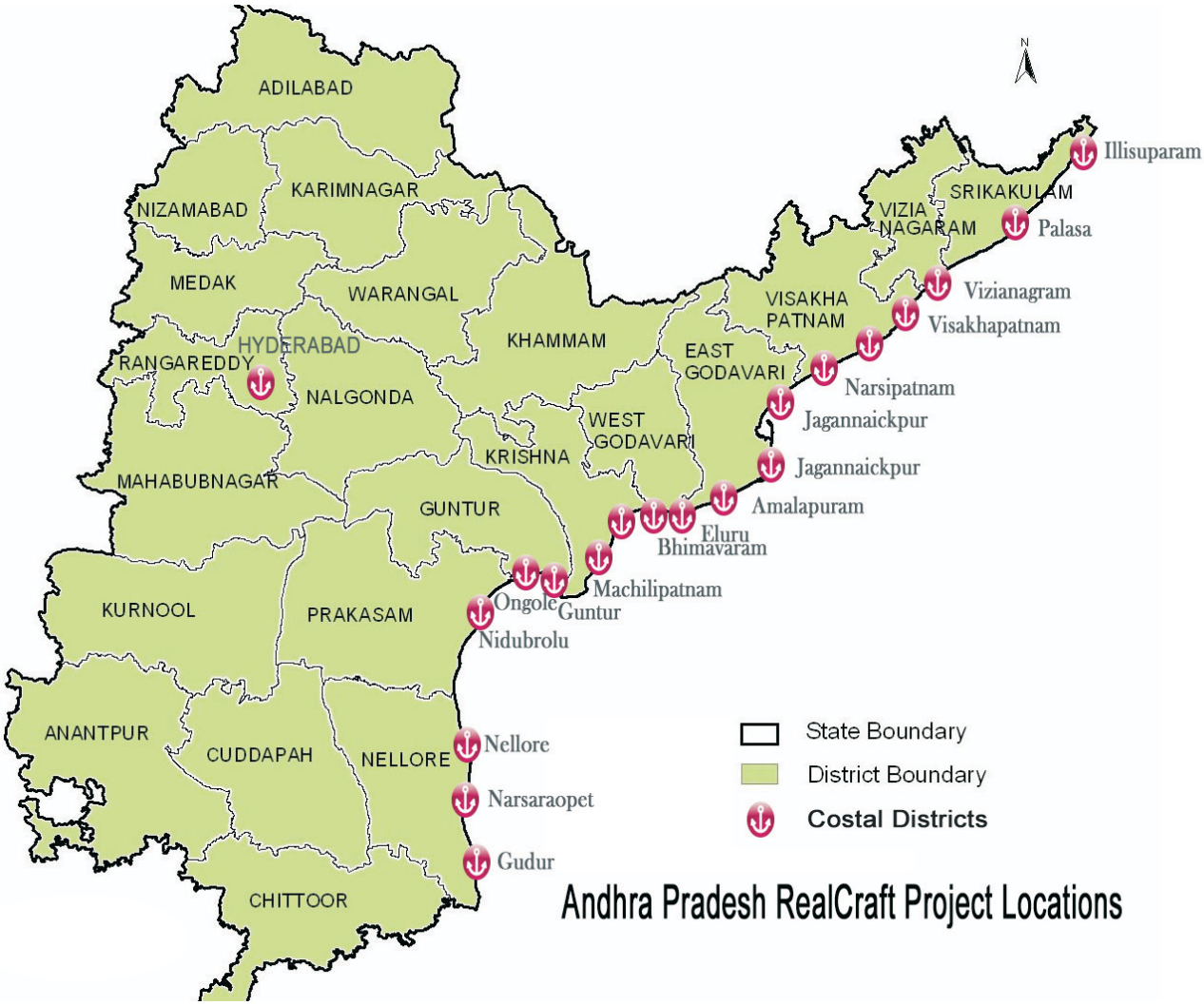
Diu

Kamlapur
Botad
Barvala
Jasdan
Sarangpur
Gondal
Gadhada
Jamkandorana
Virpur
Babra
Upleta
Dhoraji
Jetpur
Sultanpur
Bhavnagar
Shihor
Amreli
Junagadh
Bagasara
Ganiadhar
Palitana
Bilkha
Visavadar
Dhari
Kundla
Keshod
Datha
Talala
Gir National Park
Mahuva
Malvav
Dedan
Veraval
Somnath
Bherai
Dholasa
Una
Lodhwa
Kodinar
Diu
Surat
Navi Surat
Hajira
Palsana
Vesma
Navsari
Gandevi
Ohond
Valsad
Atul
Udvada
Daman
Vapi
Maroli
Bhilad
Nargol
Sanjan
Gholvad
Talasari
Dahanu
Boisar
Wada
Choranda
Palej
Samni
Bharuch
Panoli
Kosamba
Kim
Sayan
Kamrej
Bardoli

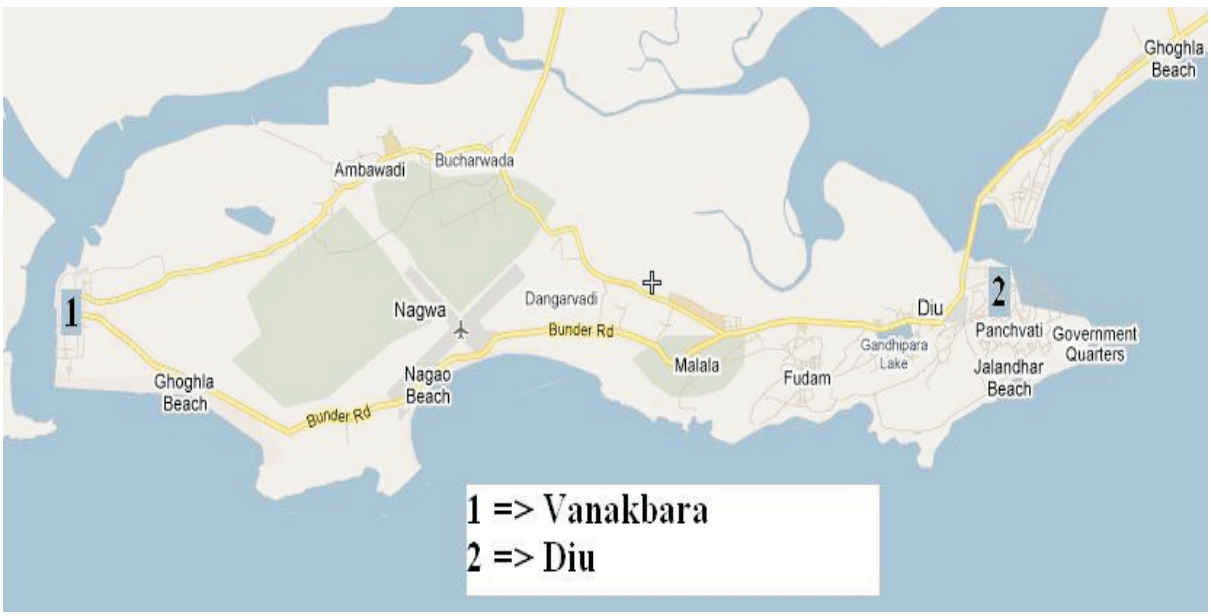
DAMAN


Batli St
Estrada 2 Feve Reiro
Kabi Kabarda Rd
Devka Rd
Jain Temple
3
Municipal Council Garden
Nani Daman Fort
3 => Daman
Rua Martin Alfonso
Rajiv Gandhi Setu - Bridge
Rajiv Gandhi Setu - Bridge
Dominican Monastery
Main Post Office
Moti Daman

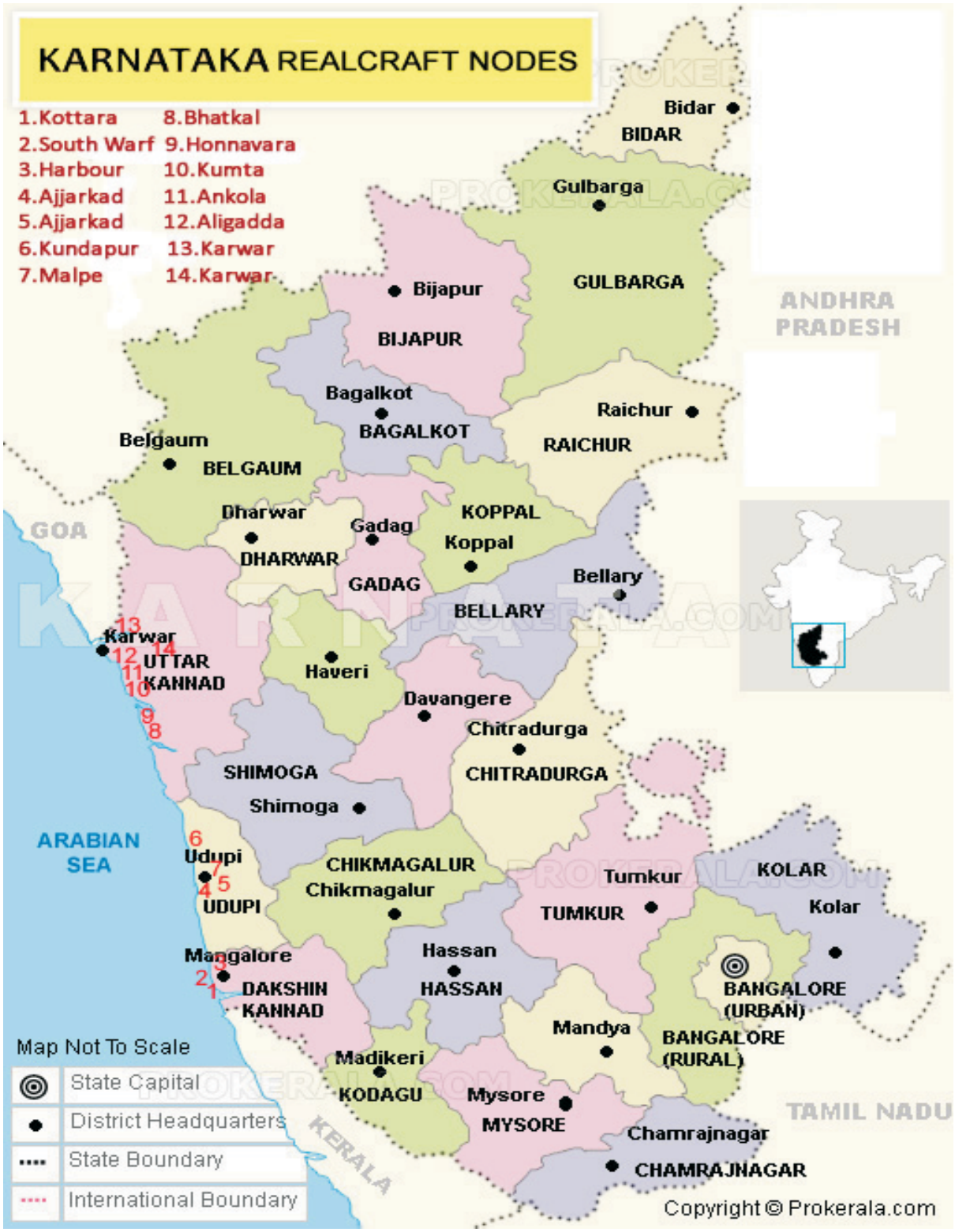
ANDHRA PRADESH



DIU



KARNATAKA


KARNATAKA REALCRAFT NODES
1.Kottara
2.South Warf
3.Harbour
4.Ajjarkad
5.Ajjarkad
6.Kundapur
7.Malpe
8.Bhatkal
9.Honnavara
10.Kumta
11.Ankola
12.Aligadda
13.Karwar
14.Karwar
Bidar
BIDAR
Gulbarga
GULBARGA
Bijapur
BIJAPUR
ANDHRA PRADESH
Bagalkot
BAGALKOT
Raichur
RAICHUR
Belgaum
BELGAUM
GOA
Dharwar
DHARWAR
Gadag
GADAG
KOPPAL
Koppal
Bellary
BELLARY
Karwar
UTTAR KANNAD
Haveri
Davangere
Chitradurga
CHITRADURGA
SHIMOGA
Shimoga
ARABIAN SEA
Udupi
UDUPI
CHIKMAGALUR
Chikmagalur
Tumkur
TUMKUR
KOLAR
Kolar
Mangalore
DAKSHIN KANNAD
Hassan
HASSAN
BANGALORE (URBAN)
Mandya
BANGALORE (RURAL)
Madikeri
KODAGU
Mysore
MYSORE
TAMIL NADU
Chamrajnagar
CHAMRAJNAGAR
KERALA
Map Not To Scale
State Capital
District Headquarters
State Boundary
International Boundary
Copyright © Prokerala.com

GOA

BDO Office Pernem
Pernem
BDO Office Mapusa
Bardez
Bicholim
Satari
Sub Office Malim
Directorate of Fisheries, Panjim
Tiswadi
Ponda
BDO Office Vasco
Mormugao
Sanguem
Sub Office Cutbona
Salcete
Arabian Sea
Quepem
BDO Office Canacona
GOA
Canacona
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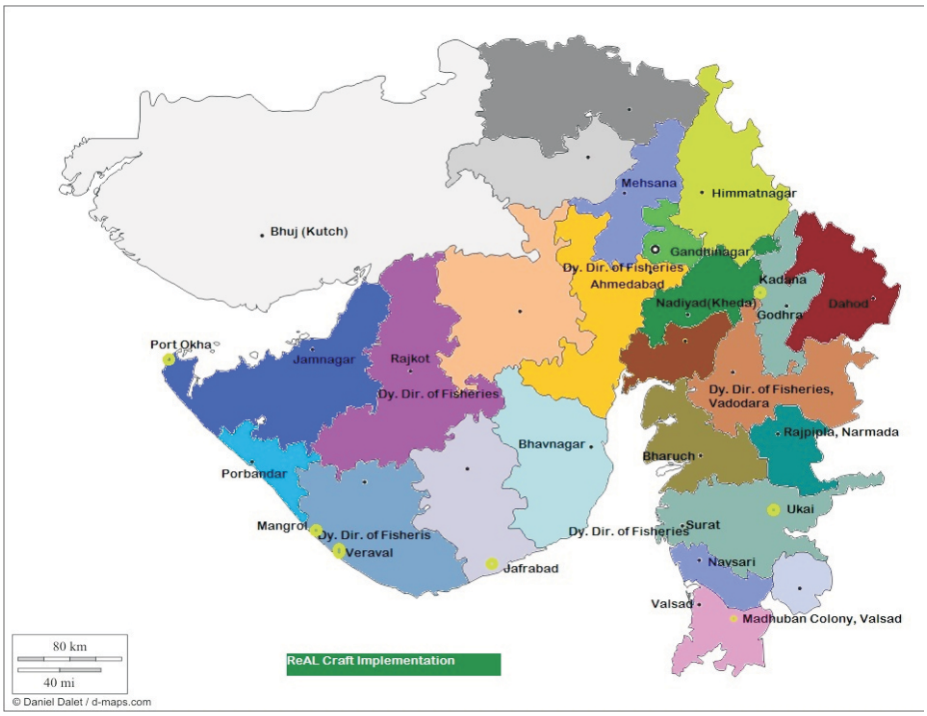
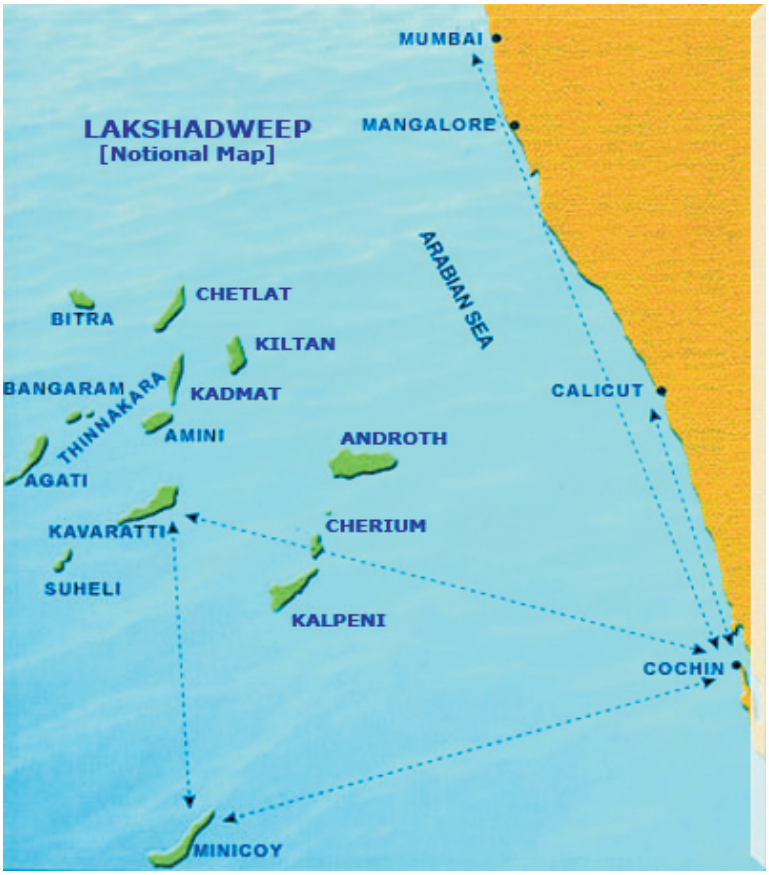
GUJARAT

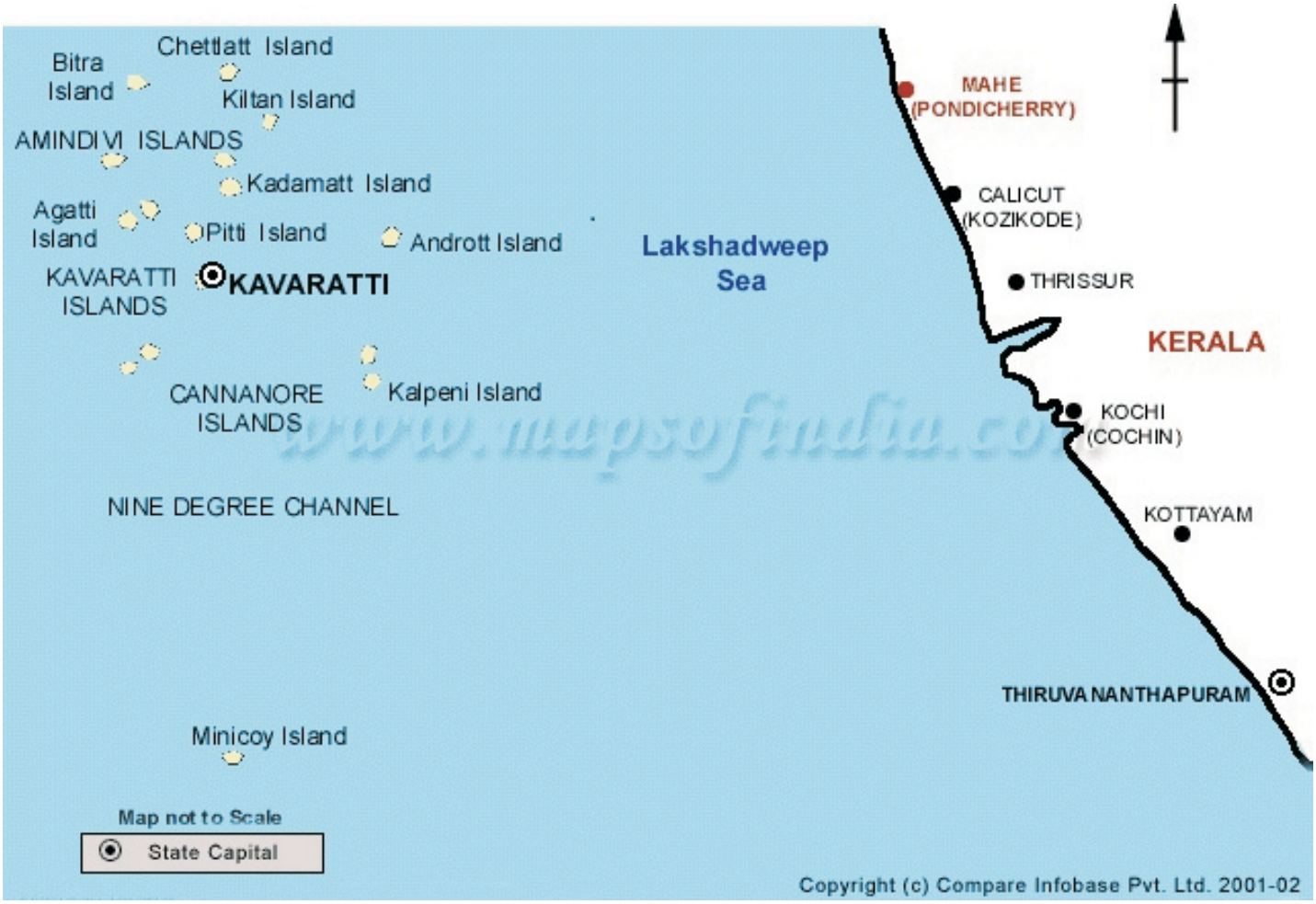

Mehsana
Himmatnagar
Bhuj (Kutch)
Gandhinagar
Dy. Dir. of Fisheries
Ahmedabad
Kadana
Nadiyad(Kheda)
Godhra
Dahod
Port Okha
Jamnagar
Rajkot
Dy. Dir. of Fisheries
Dy. Dir. of Fisheries, Vadodara
Rajpipla, Narmada
Bhavnagar
Bharuch
Porbandar
Ukai
Mangrol
Dy. Dir. of Fisheries
Veraval
Dy. Dir. of Fisheries
Surat
Navsari
Jafrabad
Valsad
Madhuban Colony, Valsad
80 km
40 mi
ReAL Craft Implementation
© Daniel Dalet / d-maps.com

KERALA

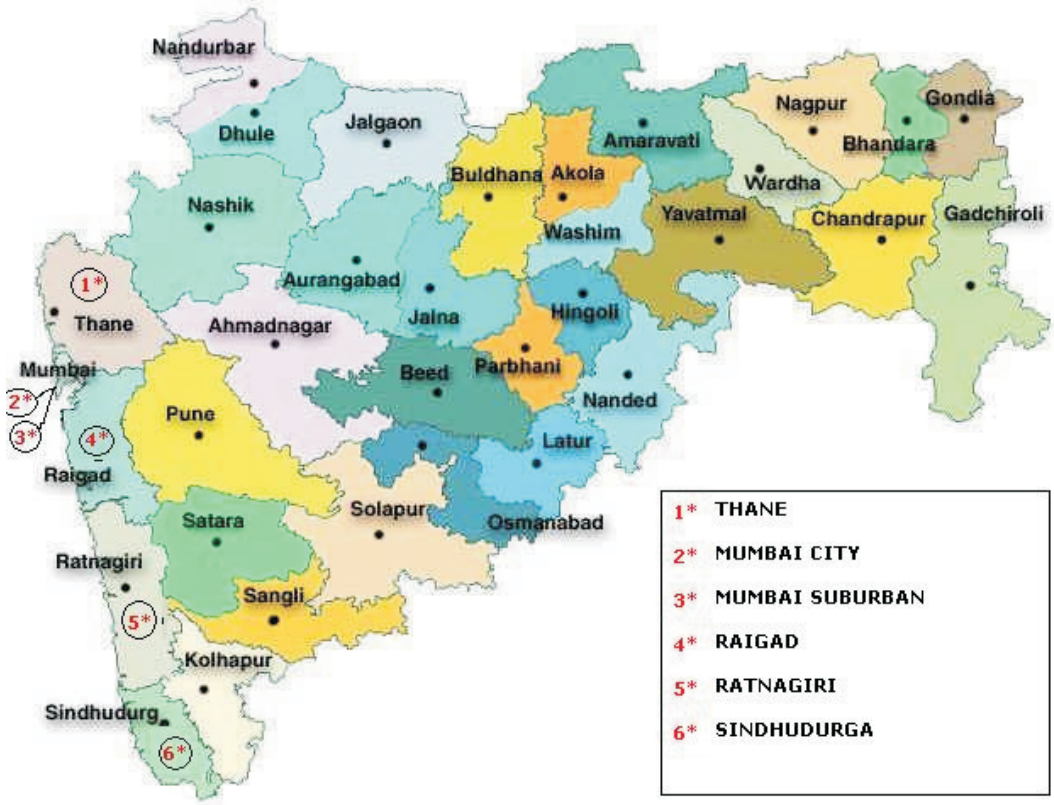
LAKSHADWEEP



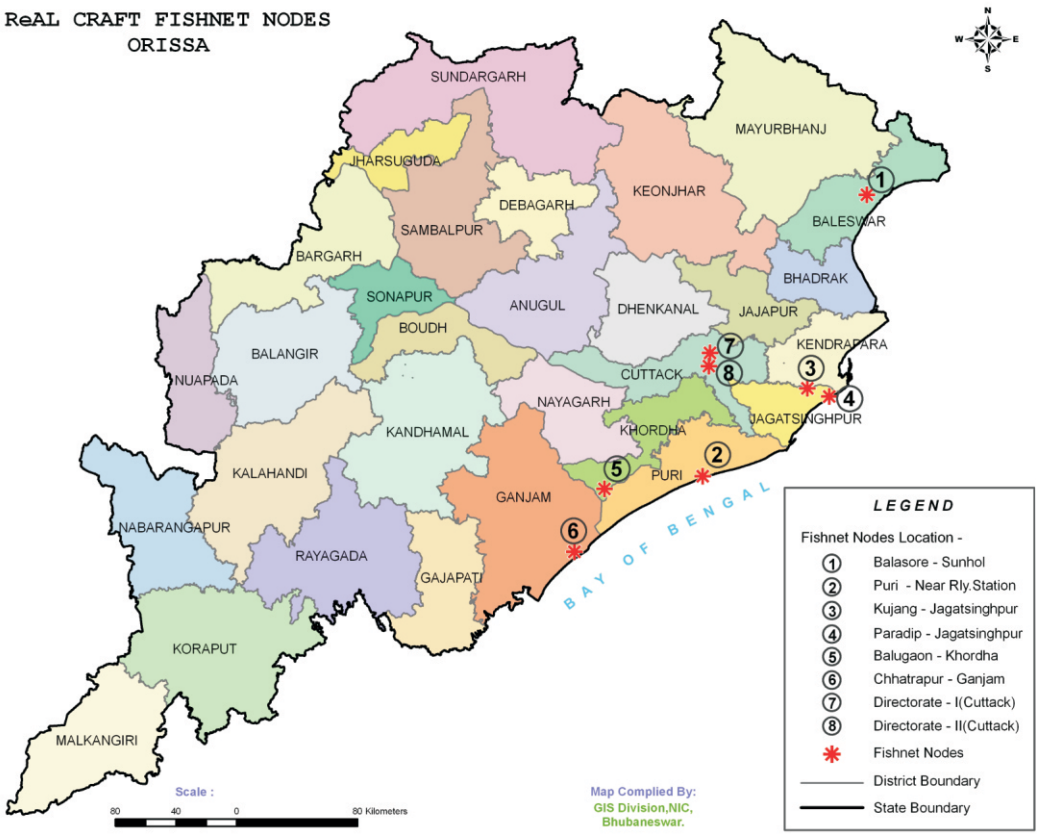
LAKSHADWEEP



MAHARASHTRA

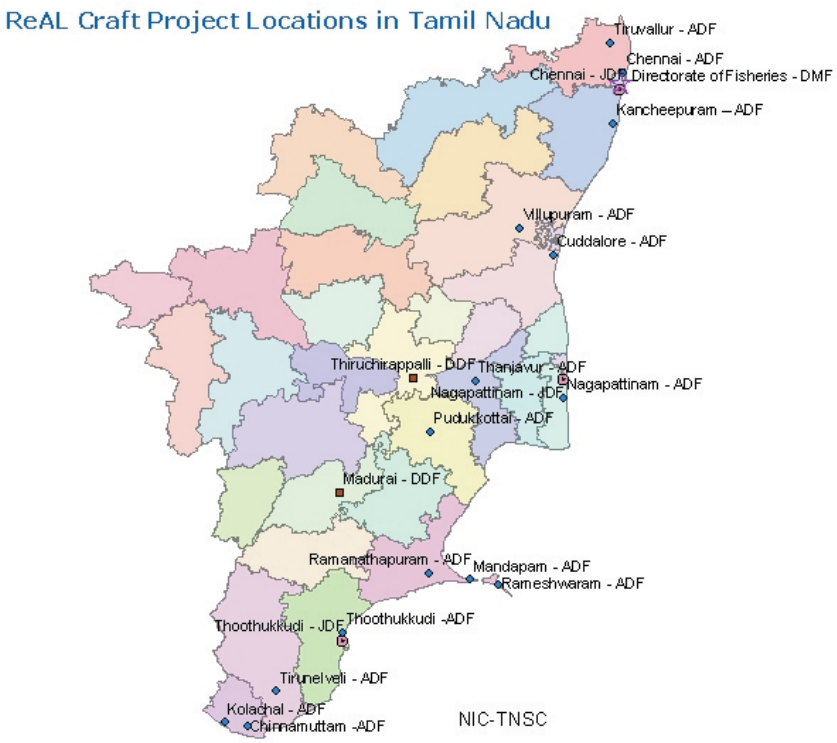
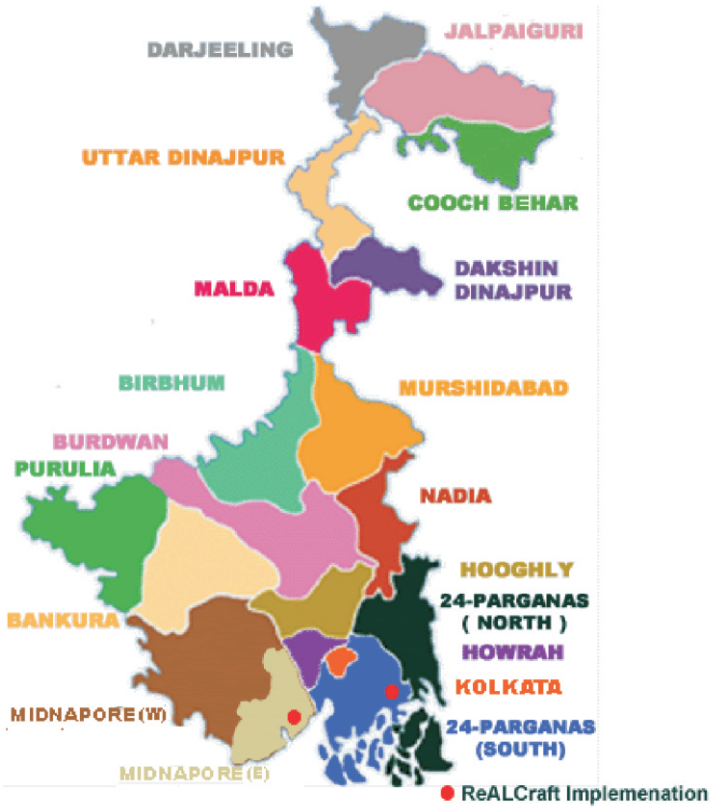


ORISSA



PUDUCHERRY

TAMIL NADU



WEST BENGAL