

Biomedical Waste Inventory Report For State of Goa

Submitted by

THE JUST ENVIRONMENT CHARITABLE TRUST

H-2 (Ground Floor), Jungpura Extension, New Delhi - 110014, India



Toxics Link
for a toxics-free world

Submitted to:

Goa Waste Management Corporation

Table of Contents

I. Background	7
I. A. Important Definitions under the rule	8
I. B. Applicability of the rule	9
I. C. Objectives.....	9
I. D. Categories of Bio-Medical Waste Generation	10
I. E. Hazards of Bio-Medical Waste	14
II. Bio-Medical Waste Management in Goa: Situation Analysis.....	16
II. A. Overall Situation in the State	16
III. Methodology.....	21
III. A. Methodology for Estimation of Household Bio-Medical Waste and Sanitary Napkins and Diapers	21
III. B. Methodology for Estimation of Bio-medical Waste generation from Health Care Facilities	27
III. C. Methodology for Estimation of Pharmaceutical Bio-Medical Waste	31
IV. The Inventory: Result and Analysis.....	32
IV. A. Knowledge, Attitude & Practice (KAP) analysis: Household& Pharmaceuticals	32
IV. B. Knowledge, Attitude & Practice (KAP) analysis: Healthcare Facilities.....	35
IV. C. Estimation of Sanitary waste and bio-medical waste generation from households & pharmaceuticals.....	40
IV. D. Estimation of bio-medical waste generation from the Health Care Facilities in Goa	45
V. Reference.....	57
VI. Annexure.....	58
VI.G. List of Public Healthcare Facilities (Hospitals,Community Health Centres,Primary Health centres,Urban Health centres) in Goa	101
Government Hospitals	101
Sr. No.....	101
Name of the Taluka.....	101
District.....	101
Name of the Hospital	101
Address	101
Contact number	101
E-mail ID	101
Bed Stren-gth	101
Specializati-on	101
Other Government Hospitals.....	103

Sr.	103
No.....	103
Name of the Taluka.....	103
District.....	103
Name of the Hospital	103
Address	103
Contact number	103
E-mail ID	103
Bed Stren-gth	103
Specializati-on	103

LIST OF TABLES

Table 1: Schedule I of the Bio-Medical Waste Management Rules, 2016 specifies the categories of Bio-medical Waste generated from Healthcare facilities for their segregation, collection, treatment, processing and disposal options as follows:	10
Table 2: Block-wise Demography of Goa (Census of India, 2011)	22
Table 3: HCF Categories considered and information documented.....	28
Table 4: Inventory of Household Sanitary & Bio-medical Waste in Goa	44
Table 5: The list of categories considered for Government and Private facilities are:.....	47
Table 6: Per-bed waste (bio-medical) generation from different categories of Healthcare facilities.....	48
Table 7: The total waste generation for facilities in private sector	49
Table 8: Details of total waste generation for bedded government facilities.....	50
Table 9: Details of waste generation from Clinics and Laboratories as calculated	50
Table 10: Current Generation of BMW from different sources.....	51
Table 11: Category-wise generation of Bio-medical Waste from Hospitals in Goa.....	52
Table 12: Category-wise generation of Bio-medical Waste from Clinics &Households in Goa.....	52
Table 13: Total Bio-medical Waste generation from Hospitals,Clinics &Households in Goa, in different categories.....	53
Table 14: District-wise waste generation- North.....	54
Table 15: District-wise waste generation- South.....	54
Table 16: Category-wise waste project in North district	55
Table 17: Category-wise waste project in South district	56

LIST OF FIGURES

Figure 1: Sanitary Napkin & Diaper disposal practices by Households.....	34
Figure 2: Expired drug disposal method (in %) in the Pharmacies	35
Figure 3: Presence of the BMW Management Committee in the HCFs of Goa.....	36
Figure 4: Infrastructure for In-house BMW Management & Handling in the HCFs of Goa	37
Figure 5: BMW segregation practices followed in the HCFs.....	38
Figure 6: Maintenance of Records related to BMW in the HCFs of Goa	38
Figure 7: Status of BMW Storage Area in the HCFs of Goa.....	39
Figure 8: Status of BMW training provided to the Healthcare workers in the HCFs of Goa	40
Figure 9: Category-wise percentage of Bio-medical Waste generation from the Clinics in Goa.....	53
Figure 10: Category-wise percentage of Bio-medical Waste generation from Hospitals in Goa	53
Figure 11: Category-wise percentage of total Bio-medical Waste generation in Goa	53
Figure 12: Bio-medical Waste and Sanitary Waste generation in Goa.....	53

LIST OF IMAGES

Image 1: Different segregation pattern	68
Image 2: Open Storage Room	69
Image 3: Open Deep Burial Pit	69
Image 4: Glass Waste Storage	69
Image 5: Red Bags for all Waste Categories	70
Image 6: Open Encapsulated Pit	71
Image 7: Open Deep Burial Pit	71
Image 8: Segregation Practice	73
Image 9: Ward wise Storage with IEC Display	73
Image 11: Waste Segregation after Autoclaving	73
Image 10: Effluent Treatment Plant	73
Image 12: GPS enabled vehicle for waste collection	74
Image 13: Incorrect Segregation Practices	78
Image 14: Covered Deep Burial Pit	78
Image 15: Encapsulated Sharp Pit	78
Image 16: Displayed IEC Material	79
Image 17: Autoclave Record	79
Image 18: Waste Storage Room	80
Image 20: Deep Burial Pit	81
Image 19: Encapsulated Sharp Pit	81
Image 21: Annual Authorisation Record	81
Image 22: Different Pattern of Segregation	82
Image 23: Storage Room with no roof	83
Image 24: IEC Material Displayed of Old BMW Rule	84
Image 25: Storage Room with Unmanaged Waste and Open Access	85
Image 26: Incorrect Categorisation of Waste	88
Image 27: Inappropriate Segregation	95
Image 28: Bio-medical Waste Autoclave	96
Image 29: Placenta Pit	96
Image 30: Storage of Autoclaved yellow bag waste	96
Image 31: Segregation practice	98
Image 34: Shredder	99
Image 33: Sharp Pit	99
Image 32: Deep Burial Pit	99

ABBREVIATION

AIDS	: Acquired Immuno Deficiency Syndrome
APCD	: Air Pollution Control Device
BMW	: Bio-Medical Waste
BMWM	: Bio-Medical Waste Management
CBWTF	: Common Bio-Medical Waste Treatment Facility
CCP	: Corporation of the City of Panaji
CHC	: Community Health Centre
GDP	: Gross Domestic Product
GHMS	: Goa Health Monitoring Services
GMC	: Goa Medical College
GPS	: Geographical Positioning System
GSPCB	: Goa State Pollution Control Board
HBV	: Hepatitis B virus
HCF	: Health Care Facility
HIV	: Human ImmunodeficiencyVirus
PHC	: Primary Health Centre
PPE	: Personal Protective Equipment
UHC	: Urban Health Centre
WHO	: World Health Organisation

I. Background

Environment (Protection) Act, 1986 regulates the management of regulatory frameworks for protection of environment in India. Under this act, the Ministry of Environment, Forest & Climate Change had notified Bio Medical Waste (Management and Handling) Rules, 1998 for environmentally sound management of bio-medical waste generated from health care facilities in order to protect environment and human health. These Rules have been revised and notified by the ministry again as Biomedical Waste Management (BMW) Rules, 2016 which came into force from March 2016 and amended as BMW Rules, 2018. Several revisions were brought under the rule for waste categories, roles and responsibilities, emission and effluent standards, monitoring requirements, etc., with the purpose of improving compliance effectiveness of the Rules and also ease of implementation by the generators.

However, after 20 years of setting the rule and 2 years of revising the same with more strict implementation provisions, management of Bio-medical waste remains a major concern for the regulatory authorities in the country, primarily because of lack of information, infrastructure, facility, resources and monitoring mechanisms in place. Current initiative of inventorising the Bio-medical waste from Goa under the project 'Management Consultancy and Development of a Biomedical Waste Management Plan for the State of Goa' is an effort to bridge the information gap in enabling sound and sustainable Bio-medical waste management system in the state of Goa. Generation of Bio-medical waste depends on a number of factors, such as, Type of healthcare facility, Occupancy of the healthcare facilities, Specialization of the healthcare units, Waste management methods used, availability of infrastructure and resources, Use of reusable items, etc. Affordability and lifestyle of a population which is also linked to the economic strata they belong to also impacts the waste generation, both, from the health care sector as well as from the households. Goa is one of the most popular tourist destinations in the country and enjoys a considerably high inflow of tourist population during the peak season and this inflow can also impact the waste generation patterns. The purpose of waste inventory is, to understand the extent of the problem and find appropriate solutions that are

comprehensive. This inventorisation has taken a very sound methodology and variable parameters into consideration to arrive at findings for waste generation in the state.

I. A. Important Definitions under the rule

I.A.i. Bio-medical Waste: Any waste, which is generated during the diagnosis, treatment or immunisation of human beings, animals or research activities pertaining thereto or in the production or testing of biological or in health camps, including the categories mentioned in Schedule I appended to the BMW Rules, 2016.

I.A.ii. Health care facility: A place where diagnosis, treatment or immunisation of human beings or animals is provided irrespective of type and size of the health treatment system, and the research activity pertaining thereto.

I.A.iii. Occupier: A person having administrative control over the institution and the premises generating biomedical waste, which includes a hospital, nursing home, clinic, dispensary, veterinary institution, animal house, pathological laboratory, blood bank, health care facility and clinical establishment, irrespective of their system of medicine and by whatever name they are called.

I.A.iv. Authorisation: Permission granted by the prescribed authority for the Generation, Collection, Reception, Storage, Transportation, Treatment, Processing, Disposal or any other form of handling of Bio-medical waste in accordance with these Rules and guidelines issued by the Central Government or Central Pollution Control Board as the case may be.

I.A.v. Authorised Person: An occupier or operator authorised by the prescribed authority to Generate, Collect, Receive, Store, Transport, Treat, Process, Dispose or Handle Biomedical waste in accordance with these Rules and the guidelines issued by the Central Government or the Central Pollution Control Board, as the case may be.

I.A.vi. Biological: Any preparation made from organisms or micro-organisms or product of metabolism and biochemical reactions intended for use in the diagnosis, immunisation or the treatment of human beings or animals or in research activities pertaining thereto.

I. B. Applicability of the rule

I.B.i. Major duties of the Occupier: Ensuring safe handling of Bio-medical waste, Making provisions for specified storage and segregation requirements, Ensuring pre-treatment of all the waste specified before sending for disposal to CBWTF or mixing with effluent, providing training, Immunization and Occupational safety to health care workers, Phasing out chlorinated plastic bags & gloves, Dispose of general solid waste as per the Municipal Solid Waste Management Rules, establishing bar-code system for waste containers, maintaining registers, records and reports as prescribed, etc.

I.B.ii. Major duties of the Operator of CBWTF: Ensuring collection, Transportation, Handling, Storage, Treatment and Disposal of Bio-medical waste as prescribed, Maintaining all records and reports as specified, Providing training, occupational safety, immunization and health check-up to its workers, Establishing bar-code and GPS for handling BMW, etc.

I.B.iii. Prescribed Authorities with duties: Ministry of Environment, Forest and Climate Change, Government of India, Central or State Ministry of Health and Family Welfare, Central Ministry for Animal Husbandry and Veterinary or State Department of Animal Husbandry and Veterinary. Ministry of Defence, Central Pollution Control Board, State Government of Health or Union Territory Government or Administration, State Pollution Control Boards or Pollution Control Committees, Municipalities or Corporations, Urban Local Bodies and Gram Panchayats.

I.B.iv. Bio-Medical Waste Management Rules, 2016 are applicable to all persons who generate, collect, receive, store, transport, treat, dispose, or handle Biomedical waste in any form including Hospitals, Nursing homes, Clinics, Dispensaries, Veterinary institutions, Animal houses, Pathological laboratories, Blood banks, AYUSH Hospitals, Clinical establishments, Research or Educational institutions, Health Camps, Medical or Surgical camps, Vaccination Camps, Blood donation camps, First Aid rooms of schools, Forensic laboratories and Research labs.

I. C. Objectives

- Inventorisation of the Bio-medical waste generated in Goa is important primarily, for determining the amount of Bio-medical waste generated overall from the state, from

individual sectors, like, different categories of health care facilities (HCF), households and Pharmacies.

- The waste inventory is intended to serve as a base for evaluating A) the capacities, strengths and requirements of the Common Bio-Medical Waste Treatment Facility (CBWTF) and B) collection and transportation resource requirements.
- Digitised location map of the major HCFs in the inventory aims to facilitate Route mapping of the collection and transport network, Smoother collection of waste from the HCFs and better monitoring of waste collection. The list will also serve as a base line data for the authorities in verifying authorization as well as conducting BMW monitoring.
- Evaluation of the knowledge, aptitude and practices regarding Bio-medical waste handling in the state (in healthcare facilities, households and pharmacies) aims to assess the need of the hour for the state as well as the facilities to undertake while setting up sound Bio-medical waste management system within the same.

I. D. Categories of Bio-Medical Waste Generation

Classification of medical waste according to their source, types, risk factors associated with their handling, storage and disposal is primary and of utmost importance to mandate and follow in any given system so as to segregate at source, reduce, reuse, recycle and safe disposal of the same.

Table 1: Schedule I of the Bio-Medical Waste Management Rules, 2016 specifies the categories of bio-medical waste generated from health care facilities for their segregation, collection, treatment, processing and disposal options as follows:

Category	Type of Waste	Type of Bag or Container to be used	Treatment and Disposal Options
Yellow	(a) Human Anatomical Waste: Human tissues, organs, Body parts and fetus below the viability period (as per the Medical Termination	Yellow coloured non-chlorinated plastic bags	Incineration or Plasma Pyrolysis or deep burial*

Category	Type of Waste	Type of Bag or Container to be used	Treatment and Disposal Options
	of Pregnancy Act 1971, amended from time to time).		
	(b) Animal Anatomical Waste : Experimental animal carcasses, body parts, organs, tissues, including the waste generated from animals used in experiments or testing in veterinary hospitals or colleges or animal houses.		
	(c) Soiled Waste: Items contaminated with blood, body fluids like dressings, plaster casts, cotton swabs and bags containing residual or discarded blood and blood components.		Incineration or Plasma Pyrolysis or deep burial* In absence of above facilities, autoclaving or micro-waving/ hydroclaving followed by shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent for energy recovery.
	(d) Expired or Discarded Medicines: Pharmaceutical waste like antibiotics, cytotoxic drugs including all items contaminated with cytotoxic drugs along with glass or plastic ampoules, vials etc.	Yellow coloured non-chlorinated plastic bags or containers	Expired 'Cytotoxic drugs and items contaminated with cytotoxic drugs to be returned back to the manufacturer or supplier for incineration at temperature >1200 °C or to common bio-medical waste treatment facility or hazardous waste treatment, storage and disposal facility for incineration at >1200°C Or Encapsulation or Plasma Pyrolysis at >1200°C. All other discarded medicines

Category	Type of Waste	Type of Bag or Container to be used	Treatment and Disposal Options
			shall be either sent back to manufacturer or disposed by incineration.
	(e) Chemical Waste: Chemicals used in production of biological and used or discarded disinfectants.	Yellow coloured containers or non-chlorinated Plastic bags	Disposed of by incineration or Plasma Pyrolysis or Encapsulation in hazardous waste treatment, storage and disposal facility.
	(f) Chemical Liquid Waste: Liquid waste generated due to use of chemicals in production of biological and used or discarded disinfectants, Silver X-ray film developing liquid, discarded Formalin, infected secretions, aspirated body fluids , liquid from laboratories and floor washings, cleaning, housekeeping and disinfecting activities etc.	Separate collection system leading to effluent treatment system	After resource recovery, the chemical liquid waste shall be pre-treated before mixing with other wastewater. The combined discharge shall conform to the discharge norms given in Schedule- III.
	(g) Discarded linen, mattresses, beddings contaminated with blood or body fluid.	Non-chlorinated yellow plastic bags or suitable packing material.	Non- chlorinated chemical disinfection followed by incineration or Plazma Pyrolysis or for energy recovery. In absence of above facilities, shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent for energy recovery or incineration or Plazma Pyrolysis
	(h) Microbiology, Biotechnology and other clinical laboratory waste:	Autoclave safe plastic bags or containers	Pre-treat to sterilize with non-chlorinated chemicals on-site as per National AIDS Control

Category	Type of Waste	Type of Bag or Container to be used	Treatment and Disposal Options
	Blood bags, Laboratory cultures, stocks or specimens of microorganisms, live or attenuated vaccines, human and animal cell cultures used in research, industrial laboratories, production of biological, residual toxins, dishes and devices used for cultures.		Organisation or World Health Organisation guidelines thereafter for incineration.
Red	Contaminated Waste (Recyclable) (a) Wastes generated from disposable items such as tubing, bottles, intravenous tubes and sets, catheters, urine bags, syringes (without needles and <i>fixed needle syringes</i>) and vacutainers with their needles cut) and gloves.	Red coloured non-chlorinated plastic bags or containers	Autoclaving or micro-waving/hydroclaving followed by shredding or mutilation or combination of sterilization and shredding. Treated waste to be sent to registered or authorized recyclers or for energy recovery or plastics to diesel or fuel oil or for road making, whichever is possible. Plastic waste should not be sent to landfill sites.
White (Translucent)	Waste sharps including Metals: Needles, syringes with fixed needles, needles from needle tip cutter or burner, scalpels, blades, or any other contaminated sharp object that may cause puncture and cuts. This includes both used, discarded and contaminated metal sharps.	Puncture proof, Leak proof, tamper proof containers	Autoclaving or Dry Heat Sterilization followed by shredding or mutilation or encapsulation in metal container or cement concrete; combination of shredding cum autoclaving; and sent for final disposal to iron foundries (having consent to operate from the State Pollution Control Boards or Pollution Control Committees) or sanitary landfill or designated

Category	Type of Waste	Type of Bag or Container to be used	Treatment and Disposal Options
			concrete waste sharp pit.
Blue	(a) Glassware: Broken or discarded and contaminated glass including medicine vials and ampoules except those contaminated with cytotoxic wastes.	Cardboard boxes with blue colored marking	Disinfection (by soaking the washed glass waste after cleaning with detergent and Sodium Hypochlorite treatment) or through autoclaving or microwaving or hydroclaving and then sent for recycling.
	b) Metallic Body Implants	Cardboard boxes with blue colored marking	

I. E. Hazards of Bio-Medical Waste

Bio-medical Waste generated at different sectors consists of solids and liquids which includes hazardous, infectious and non-infectious. According to the WHO characterisation of Healthcare waste, around 75 to 90 percent of the waste produced by the Healthcare units are non-risk or general health-care waste which are comparable to domestic waste, which is generated from the administrative, housekeeping and maintenance of the facilities. Remaining 10 to 25 percent, known as, Healthcare risk waste, is regarded as hazardous/infectious and have the potential to create a number of health risks. These include both infectious (non-sharps, sharps, plastic disposables, liquid waste) and other hazardous waste (radioactive, chemical and cytotoxic waste). But if and when mixed together, the waste becomes harmful, potentially dangerous and more difficult to manage.

Improper management of the Healthcare waste causes a direct health impact on the community, health care professionals as well as on the environment. Even indirectly improperly segregated and un-/improperly treated waste impacts the community health as a whole by leading to environmental pollution. It brings occupational and public health risk. Any individual exposed to hazardous healthcare waste including medical staff (doctors, nurses, sanitary and hospital maintenance personnel), In- and Out-patients along with the visitors, support services workers (in laundry, waste and transportation), workers at waste

disposal facility, general public including children and scavengers are potentially at risk of being injured or infected. For example, improper treatment and disposal of sharp waste is dangerous and can injure medical, ancillary staffs, sanitary labours, scavengers on the dumpsites and further in its end-of-life cycle. Illegal dumping of health-care waste or even hazardous Bio-medical waste mixed with the general waste, unsafe recycling practices, like, reuse of syringes are considered amongst the most serious problems with adverse effects on population as direct and indirect routes of contamination. It has been estimated that of the 35 million healthcare workers worldwide, about 3 million receive hard exposures to blood borne pathogens, 2 million of those to HBV (Hepatitis B virus), 0.9 million to HCV (Hepatitis C Virus), and 1,70,000 to HIV (Human Immunodeficiency Virus). The risk is also posed to the workers involved in the collection and treatment of Biomedical waste. According to WHO estimation in 2002, over 20 million infections of Hepatitis B, C and HIV occurred yearly due to unsafe injection practices (reuse of syringes and needles in the absence of sterilization), cases were more in low and middle-income countries. However, there has been a substantial reduction in such reuse in the recent years. But despite the progress, unsafe injections were responsible for 33,800 new HIV infections, 1.7 million Hepatitis B infections and 315,000 Hepatitis C infections world-wide in 2010. One needle stick injury from infected sources can pose a person a risk of becoming infected with HBV, HCV and HIV to a person of about 30%, 1.8%, and 0.3% respectively.

Thereby, proper segregation, handling, treatment and disposal of Biomedical wastes are crucial to protect health care workers, patients, local communities as well as the environment. Proper segregation of hazardous healthcare waste also reduces the cost for treatment and disposal. According to WHO estimates, If the hazardous part could be immediately separated from the other waste, the amount of hazardous Healthcare waste requiring special treatment could be reduced to as low as 2 to 5 percent.

The country has made significant investment in plugging some of these gaps in the current system by training and building the capacity of stakeholders, building appropriate infrastructure, regulatory frameworks and constant monitoring of systems. However, the State of Goa on account of various reasons did not keep pace with such developments especially the building of a Common Bio-medical treatment facility and the resultant impact is existence of a compromised waste management system being in practice till date.

II. Bio-Medical Waste Management in Goa: Situation Analysis

II. A. Overall Situation in the State

Goa, the state with the highest GDP situated in the western coastline in India, has a population of 1,458,545 according to Census of India, 2011. One of the smallest in area and fourth smallest in terms of population, the state, is divided into two districts, North Goa and South Goa and further sub-divided into 12 *Talukas*. There is one municipal corporation, namely, Corporation of the City of Panaji, 13 municipal councils in the state, viz, Margao, Mormugao (including Vasco da Gama), Pernem, Mapusa, Bicholim, Sanquelim, Valpoi, Ponda, Cuncolim, Quepem, Curchorem, Sanguem, and Canacona and a total of 191 Village Panchayats in the state of Goa.

According to the secondary research carried out under the current study as well as the on-ground physical validation conducted, the state has some 800+ healthcare facilities including government hospitals, primary health centres, community health centres, urban health centres, private hospitals, nursing homes and private clinics considering both bedded and non-bedded facilities. A total of 42 government healthcare establishments are there in the state excluding dispensaries. Estimated bed strength of the state as per the state government sources is about 5500+ of which 3091 belongs to the government facilities. The bed strength of Goa per thousand population is 3.8 which is 5 times of the Indian average of 0.7 (2011) and even more than the world average of 2.9 last estimated in 2005 (World Bank open data source). The state has 'one of the most extensive health systems in India and considered as best performing states in the matter of health & medical care' as reported by the Directorate of Health Services, Government of Goa.

II.A.i. Key Agencies Involved & their Corresponding Roles

A number of authorities play key roles in managing the Bio-medical waste generated within the state as per the BMW Management Rules, 2016.

II.A.i.a. Directorate of Health Services, Government of Goa and Department of Animal Husbandry and Veterinary Services: are the state departments for health and animal health

respectively. As stated in the website of the Directorate of Health Services (<http://www.dhsgoa.gov.in/aboutus.htm>), total numbers of 1347 beds are there under the directorate of which, 469 beds are attached to CHCs / PHCs. The three District Hospitals viz. Hospicio Hospital, Margao in South Goa District, Sub-district Hospital, Ponda and Asilo Hospital, Mapusa in North Goa District, and three other specialized/general hospitals viz. Leprosy Hospital, Macazana, T.B. Hospital, Margao, Cottage Hospital, Chicalim come under the Directorate. The Directorate currently has no information on the status of authorization of the healthcare facilities. The generators of waste have a very special and principal responsibility towards managing this waste. They are expected to create a system in their facilities and ensure that the system functions efficiently at their end. The Directorate also has key responsibility towards overall monitoring by being part of the state level monitoring committee.

II.A.i.b. Goa State Pollution Control Board: It is primarily responsible for ensuring the implementation of BMW Rules, 2016 (& Amendment 2018) in the state as well as for the authorisations of the HCFs, monitoring and evaluation of the Bio-medical waste management system in the state. The State Pollution Control Board of Goa (GSPCB) has mentioned that only 60 healthcare facilities in the state have received authorisation by the GSPCB. As a consequence, reports are also not received from a majority of the HCFs. Goa currently does not have a Common Biomedical Waste Treatment Facility (CBWTF) to treat and dispose its biomedical waste. Back in 2016, Karnataka Government along with Karnataka State Pollution Control Board had withdrawn the consent to treat the BMW of Goa in the Hubli-Dharwad CBWTF. GSPCB has in the interim authorized Goa Health Monitoring Services (GHMS), a private firm that has been collecting and managing some amount of the Biomedical waste generated primarily in and around Panaji.

II.A.i.c. Goa Waste Management Corporation: It is a corporation formed by the Government of Goa under the Goa Waste Management Corporation Bill 2016. The Corporation intends to promote waste management services and facilities in the state which also include facilitating the Bio-medical waste management in the state. Currently, the corporation is finding a comprehensive solution to Bio-medical waste issues in the state by setting up of a CBWTF and a system that ensures sound disposal of all infectious waste generated by these facilities in confirmation to the existing rules of the country. It will be the responsibility of

the GWMC that the system functions well after being set up and they facilitate and oversee the system.

II.A.i.d. Municipalities or Corporations, Urban Local Bodies (ULB) and Gram Panchayats: The 14 ULBs and 182 Gram Panchayats in the state also have the responsibility to: (i) Provide or allocate suitable land for development of common bio-medical waste treatment facilities in their respective jurisdictions as per the guidelines of Central Pollution Control Board. (ii) Collect other solid waste (other than the bio-medical waste) from the health care facilities as per the Municipal Solid Waste (Management and handling) Rules, 2016 or as amended time to time. (iii) Any other function stipulated under these Rules.

The governance structure for providing healthcare services is very progressive and ahead of many other states in the country the infrastructure for management of healthcare waste is highly inadequate. It is also interesting to note that the governance structures are also well defined and in place but the state does not have adequate capacity to manage waste generated from healthcare facilities and the need to understand the current system and gaps in the system.

II.A.ii. Current BMW Management & Disposal Practices in the State

The state has both public and private health care systems of which the public systems are accessed by more people and are almost always overloaded as a result. Visits and waste surveys conducted by the project expert team clearly bring out the following facts on the status of Bio medical waste management infrastructure and practices in the HCFs of Goa:

- In the absence of a CBWTF in the state, GSPCB has authorised GHMS to currently manage part of the bio-medical waste generated in the state. GHMS has the authorisation for collection transportation and disposal of such waste till 2019. It mainly collects waste from North Goa and City Corporation of Panjim (CCP) and is providing services to approximately 2400 beds in the state. GHMS transports part of the collected waste (yellow waste) to Goa Medical College (GMC) for incineration and hydroclave facilities and the plastic waste (Red waste) to Manipal Hospital for autoclaving. The incinerator in GMC is of capacity 70 kg per hour and is operated without any air pollution control device (APCD). Hydroclave has the capacity of 150 kg per hour. Incinerator ash and hydroclaved waste is dumped in open landfill. Disposal of

white waste (metal sharps and scalpel) and blue waste (glass waste and implants) are not addressed by the facility as of now. GHMS has two waste GPS enabled waste transportation vehicles. This current practice of waste collection transportation and disposal by GHMS is also supported by the Indian Medical Association, Goa chapter.

- Rest of the facilities with approximately 3100 beds are not connected to any treatment and disposal facility. Part of the waste is disposed of by the HCFs by adopting deep burial pit method, the recyclable biomedical waste is disposed of after pre-treatment (majorly chemical disinfectant) to recyclers and in many places even the non-municipal waste is sent with the municipal waste after some pre-treatment to the local municipalities.
- Most of the HCFs did not have any internal policy or guideline for management of BMW
- Majority of the HCFs both public and private did not have a waste management committee instituted and functioning in their hospitals. Some have assigned a nodal person (even the ones with >30 beds) to look after the BMW.
- Majority of the HCFs did not have the technical capacity or infrastructural facility to deal with the kind of waste getting generated. In absence of an appropriate facility most hospitals were following the practice of deep burial of waste in their backyards. The status of many such pits was of concern. Appropriate storage space, waste transportation and handling equipment were absent in many cases. Even the waste bins and liner bags were either not following the color coding or were insufficient. Few hospitals had old autoclave machines but its usage was not as per protocol.
- Since the BMW disposal facilities and management infrastructures are not in place, the HCFs did not actually invest in capacity building of the staffs. Healthcare staffs at all levels of the HCFs were unaware of the revised Bio medical waste rules 2016. They did not have the knowledge of segregation categories to follow, hazards of bio-medical waste, occupational safety measures to be taken or the records to be maintained. BMW management training was almost non-existent among the healthcare workers.
- Lack of knowledge and management practices are reflected in the segregation practices which were not being followed as per the norms prescribed in large number of facilities. Infectious waste was found to be mixed with general waste and in turn infecting all waste. Much of this waste was being collected by the municipality and the chances of it being mixed with general waste are serious concern of public health.

- The staff at most facilities did not have right kind of protective clothing and were exposed to infection. Even the places where personal protective equipment (PPE) are provided were not being used in the absence of any proper sensitization on the importance of their use. Some of the staffs even were never immunized.
- Record keeping of waste in most hospitals was poor or compromised. Some though maintain the daily waste data but do not really weigh the waste and just copy earlier data irrespective of the patient load throughout the year. Records of immunization, accidental cases and injuries were almost zero in the HCFs.
- Many hospitals were following the practice of disposing their plastic and glass to local vendors. It is difficult to ascertain if all these items are duly sterilised before being handed over to vendors.
- Overall the situation on training and awareness in the state appears to be poor though some efforts have been put in by a private agency GHMS in creating awareness and sensitizing staff on waste management.
- Waste mixing and its disposal with municipal waste is a matter of concern and require immediate attention.
- Thus, in the absence of an appropriate and comprehensive biomedical waste management system including a quality and efficient treatment facility, there lies the risk of dumping of biomedical waste, open burning and disposal of biomedical waste along with municipal waste which poses a serious public health concern. Even the deep burial practice followed in the state is improper and thereby, unsafe and inadvisable. Improper management practices of biomedical waste also pose a serious threat through reuse of used medical devices such as syringes, gloves, Intravenous tubes etc., thus compromising health care services to citizens.

With this context given the status of bio-medical waste management in Goa, it was of utmost importance to understand the magnitude of the problem in the state. Current inventorisation is an effort to bridge that gap in order to put in place a sound bio-medical waste management and disposal system in Goa. The inventorisation has adopted different methodologies to estimate the amount of bio-medical waste being generated from different sources in the state as described in the methodology section below.

III. Methodology

Bio-Medical Waste Management Rules, 2016 applies to all persons generating, collecting, receiving, storing, transporting, treating, disposing or handling bio-medical waste. Though the sources are majorly all types of healthcare/laboratory/research facilities, the rules also address the waste generated from Households and Pharmaceuticals and are mandated to be managed and disposed properly. Keeping in mind these three sections of the bio-medical waste sources, current inventorisation has considered estimating waste from i) Household, ii) Health Care Facilities, iii) Pharmaceuticals.

Inventorisation process included, a) use of secondary information, like, Census of India, National Family Health Survey, Goa Pollution Control Board, etc. at different stages of the bio-medical waste estimation methodology, b) conducting on-ground physical validation of information wherever necessary and c) carrying out primary studies (survey, interview/interaction, waste audit, etc.) in order to estimate the waste from different sources.

III. A. Methodology for Estimation of Household Bio-Medical Waste and Sanitary Napkins and Diapers

III.A.i. Household Survey

- The terms of reference of the current project has included items such as sanitary napkins and children diapers, infected adult diapers, used syringes and insulin needles, expired medicines, etc., many of which come under the category of hazardous waste and can be a source of infection. Effective management of this waste would require information on waste being generated in the state along with their projected increase.
- In order to estimate a region wise comprehensive socio-economic demographic data of the amount of bio-medical waste generation from households, a household survey was designed with stratified random sampling method.

III.A.i.a. Demography of Goa

Population of Goa, according to the Census of India, 2011, is 1,458,545 of which 739,140 and 719,405 are the male and female population respectively. Child population (0-6 years) in

Goa is 1,44,611 of which male and female are 74,460 and 70,151 respectively. The projected population for Goa for the year 2018 according to the Census is 1,508,556.

Table 2: Block wise Demography of Goa (Census of India, 2011)

District	Blocks	Population	Population Male	Population Female	Child Population (0-6)	No. of Household
North Goa	Pernem	70726	36095	34631	6500	16046
	Bardez	197451	99570	97881	18205	47681
	Tiswadi	137202	69939	67263	13600	32083
	Bicholim	67318	34089	33229	6668	15197
	Satari	55285	28247	27038	5576	12533
	Ponda	143166	73763	69403	13547	32531
South Goa	Mormugao	77243	39730	37513	8241	18544
	Salcete	173116	84932	88184	18295	41875
	Quepem	43668	21844	21824	4493	9839
	Sanguem	58703	29461	29242	6386	13523
	Canacona	32738	16238	16500	3375	7360
	Dharbandora	--	--	--	--	--

III.A.i.b. Estimation of the Sample Size

Sample size is a statistical concept that involves determining the number of observations that should be included in a statistical sample. Minimum number of necessary samples(households)required to be surveyed in the current study to meet the desired statistical constraints was calculated using the following formula:

$$\text{Sample size} = \frac{\frac{z^2 \times p(1-p)}{e^2}}{1 + \left(\frac{z^2 \times p(1-p)}{e^2 N} \right)}$$

Where, N = Population Size = 343611 (Number of households in Goa as per Census of India 2011)

e = Margin of error = 3%(considered in the study); p = population proportion= 0.3

z = z-score (the number of standard deviations the considered data point is from the population mean) which varies with the confidence level. Confidence level is a measure of certainty regarding how accurately a sample reflects the population being studied within a

chosen confidence interval. A 95% confidence interval is considered for the determining the sample size for which the z-score is 1.96.

Therefore, the statistically significant household survey sample size for Goa considering a 95% confidence level, 3% margin of error and 0.3% population proportion is 1064. (<https://www.surveymonkey.com/mp/sample-size-calculator/>)

Considering a non-response rate as 10%, then the number of non-respondent samples will be 106 (10% of sample size)

Thereby, the estimated household survey sample size considering the non-response is, $(1064+106) = 1170$.

III.A.i.c. Sample Size Distribution

- In the survey, the sub-division populations were taken as the strata while also considering different income groups, gender and age groups to have an approximation of the use of sanitary napkins, children and adult diapers, household bio-medical waste etc.
- In order to have a representative and a holistic sample for determining the bio-medical waste generation from goan households, efforts were made to spread the household survey across the blocks in Goa.
- To avoid clustering of data, effort was made not to include more than 5 households from one particular location or area (depending on the availability of resource and feasibility).

III.A.i.d. Data collection

- *Preparing Survey Framework:* Keeping in mind the objective, the questionnaire was framed addressing the income groups, age group & women age group population, use of sanitary napkins by women in a single menstrual cycle, use of diapers for children under the age of 3 years as well as the use of adult diapers, current disposal practices and choices.

The survey questionnaire is provided in the Annexure VI.A.

- *Administration of the Survey:* Survey was carried out by a real-time geo-tagged app. The questionnaire was first filled into the app and pilot testing was conducted before initiating the actual survey. This app-based survey was used for authentic survey

information, for saving time required for data entry and for reducing human errors. Two-end use of the app enables both the surveyors and the supervisors to carry on survey submissions, monitoring and approval simultaneously.

- *Engagement of Field Investigators:* For a smooth, speedy and quality completion of the survey local field investigators were engaged. As the household survey aimed to bring out the estimation of the use of sanitary napkins and diapers, women field investigators were engaged to eliminate the possibility of inhibition of the respondents. Other eligibilities for selection of the candidates were to be graduate, to know local language and to be proficient in using smart phone gadgets/apps (as the survey was conducted using an online tool).
- *Orientation to Field Investigators:* The surveyors were oriented on biomedical waste, background and objective of the current project, purpose and methods of conducting household survey, requirement of the information, how to employ the survey forms using the android application to fill in data, etc. They were also provided support on a regular basis for further clarifications during the process. The surveyors were aided with required resources for a smooth data collection, like, identity cards, permission letters from GWMC.
- *Conduction of Survey:* The door-to-door survey was conducted by the selected field investigators using the real-time android app on a daily target basis. Minimum sample size and distributions were followed by the investigators.
- *Monitorisation:* The survey information/data was being monitored on daily basis from the desktop end of the same survey platform. A verification of the locations, completeness, and data correspondence was carried out.

III.A.ii. Estimation of the waste: Data analysis and Data projection

III.A.ii.a. Secondary Data

While estimating the current and projected usage amount of sanitary napkins and diapers from households, it was critical to have authentic demographic information for which national secondary databases were used. The information included state-specific population, historical growth rate, age-wise women population, birth rate and age wise population of Goa. These data were used to estimate the population using sanitary napkins (women of menstruating age group), child population using diapers (children up to 2 years of age) and

adult population using diapers (adult population beyond 60 years of age) (details are mentioned in Section III.A.ii.b.)

- Secondary data of the population of Goa, growth rate in the last two decades were considered from Census of India 2001 & 2011.
- National Family Health Survey – 4 (2015) was referred to for data on the percentage of menstruating women population, percentage of 60+ years adult population.
- Directorate of Planning, Statistics & Evaluation's information on birth rate per '000' population in 2016 was considered for estimating 0-2 years child population.

III.A.ii.b. Data Analysis & Estimation

- Data analysis was carried out using Microsoft Excel and the statistical calculations were done using online calculators (links provided). The following information were estimated from the survey data:

- ✓ Percentage of menstruating age group women population using sanitary napkins.
- ✓ Average use of sanitary napkins (numbers) per menstruation cycle per female.
- ✓ Average use of diapers (numbers) per day per child.
- ✓ Average use of adult diapers per month.

- **Estimation of Sanitary Napkin disposal amount:** Formula applied is as follows

Considering,

Total female population of Goa = W

Percentage of menstruating female population in Goa = f

Percentage of female menstruating population using sanitary napkins in Goa = p

Average number of sanitary napkins used per cycle per female in Goa = S_a

Thereby, the total number of female menstruating population using sanitary napkins in Goa (W_{fp}) = [(W x f) x p]

And finally, the total number of sanitary napkins disposed in Goa per day (S) = (W_{fp} x S_a x 12 months)/365 days

Average weight of an used napkin (w_s) = Average weight of one sanitary napkin + (maximum average blood flow in one cycle / average number of sanitary napkins used in one cycle)

Thus, the amount of sanitary napkins disposed in Goa per day = S x w_s

- **Estimation of Child Diaper disposal amount:** Formula applied is as follows

Considering,

Total population of Goa = N

Percentage of 0-2 child population in Goa = c

Percentage of 0-2 child population using diapers in Goa = d

Average number of child diapers used per day per child in Goa = D_a

Thereby, the total number of child population (0-2) using diapers (N_{cd}) = $[(N \times c) \times d]$

And finally, **the total number of child diapers disposed in Goa per day(C) = $N_{cd} \times D_a$**

*Average weight of aused child diaper (w_c) = Primary study (Average weight of child diapers, each used for an average of 10 hours*were measured.)*

** Average use of child diapers in Goa is 2.3 per day per child, that is, 1 diaper used for 10 hours.*

Thus, the amount of child diapers disposed in Goa per day = $C \times w_c$

- **Estimation of Adult Diaper disposal amount:**

Considering,

Total population of Goa = N

Percentage of 60 years & above adult population in Goa = a

Percentage of 60 years & above adult population using diapers in Goa = n

Average number of adult diapers used per adult per month in Goa = A_d

Thereby, the total number of 60 years & above adult population using diapers (N_{an}) = $[(N \times a) \times n]$

And finally, **the total number of adult diapers disposed in Goa per day(D) = $(N_{an} \times A_d) / 30$**

Average weight of aused adult diaper (w_d) = Average weight of one adult diaper + (average urine output per day per adult / 3)*

** One adult diaper is used for an average of 8 hour in a day in Goa. $24/8 = 3$*

Thus, the amount of adult diapers disposed in Goa per day = $D \times w_d$

III.A.ii.c. Data Projection

Data projection is one of the most important aspects for any planning and infrastructural investments for a state. The last Census of India was carried out in 2011 and the next will be carried out in 2021. Hence, the population based estimations only give information based on 2011 population size. A projected population of Goa of 2018 and till 2028 was estimated by extrapolation of historical data, that is, population growth versus time or population

growth rate. Based on the projected population, the generation of sanitary napkins and diapers were calculated for deducing a future estimation of waste which is important for designing the capacities of the waste management and treatment facilities.

III. B. Methodology for Estimation of Bio-medical Waste generation from Health Care Facilities

III.B.i. List of Health Care Facilities: Listing, Validating & Digitizing

III.B.i.a. Preparing a draft list of HCFs: A draft list of the healthcare facilities in the state was prepared by compiling information from various secondary sources like, Directorate of Health Services Goa, Goa State Pollution Control Board, Web-based platforms, different medical associations, etc. The list had segregated block wise information on the number and addresses of health care facilities separately for government facilities, private bedded healthcare facilities and non-bedded clinics.

III.B.i.b. Physical validation of HCFs: An on-field physical validation of the HCFs was carried out in order to: a) update the existing secondary draft list with addition of new facilities, subtraction of closed/non-existent facilities, b) document specialization and bed strength of the facilities (where applicable and available), c) GPS locationing of the facilities. The above process was executed by physically visiting all sites such as healthcare facilities, individual clinics, diagnostic centers, pet clinics, veterinary hospitals etc and using the android based real-time app to locate the latitude and longitude of the HCFs. A backend monitoring and data correction was also carried out simultaneously to have error free information on HCFs. The list so prepared with all the information will serve as a master list and baseline database crucial for a number of milestones of the process, like, estimation of waste, collection and route mapping, online monitoring, authorisation, etc.

Questionnaire for Physical Validation of HCFs is provided in Annexure VI.B.

III.B.ii. Waste Audit: Categorisation, Survey & Estimation.

III.B.ii.a. Categorisation of HCFs for evaluation of bio-medical waste generation

To derive at the quantum of biomedical waste generated in the state, it is necessary to have a representative sample from all the categories of the healthcare facilities in Goa. The healthcare system of India is broadly divided into two categories i.e. private and public. The

public healthcare system is divided further in various types depending upon the level of healthcare treatments provided like, primary, secondary and tertiary. This healthcare system is universal across India.

Primary healthcare is provided by PHC (Primary Healthcare Center), which is also the first point of contact for the majority of the rural population in India. Usually, a PHC has 1- 6 beds,¹ but the bed number also varies depending on the state requirement and system, for example, Goa has a PHC with upto 30 beds. Secondary healthcare is provided by CHC (Community Health Center) which acts as a referral for the PHC, critical cases would be referred to (DH) District Hospital. Medical colleges and central government hospitals are multispecialty hospitals, which provides specialized tertiary treatments like cardiac, neurology and nephrology etc.

On the other hand, private hospitals can be either bedded or non-bedded clinics. Bedded hospitals are specialized in one two domains (eye, maternity, skin etc) and multispecialty in providing secondary or tertiary care. Complexity of the healthcare treatments is directly proportional to the amount of biomedical waste generated and also on the developments in the healthcare system of the state. The facilities were thus further categorized based on the bed strength and the speciality of the treatment they were providing (e.g. maternity homes, dental clinics, veterinary hospitals and clinics etc.) so as to understand the pattern of waste generation in different categories. For e.g. A maternity home would generate more of yellow category waste than an eye hospital or a dental clinic. Also multispecialty hospitals would have different amounts of waste generation in comparison to individual practitioners. It was also made sure that 2 hospitals from each of the above mentioned categories was included.

This HCF categorization was done to group the hospitals in different categories so as to understand the waste generation patterns in various facilities and to have a representative waste audit.

Table 3: HCF Categories considered and information documented

Sl No	HCF Categories	HCF categories (any)	Sub- (if bed strength	Total bed strength	Average occupancy	Waste generated per day
-------	----------------	----------------------	-----------------------	--------------------	-------------------	-------------------------

¹ <http://www.nhm.gov.in/nhm/nrhm/guidelines/indian-public-health-standards.html>

1	Private Hospital: 0-20 bedded with different specialisations	Multi, Maternity, Urology, Ortho, Eye, Other	N_1	n_1	W_1
2	Private Hospital: 20-50 bedded with different specialisations		N_2	n_2	W_2
3	Private Hospital: 50-100 bedded multispeciality	Multi, Other	N_3	n_3	W_3
4	Private Hospital: >100 bedded multispeciality		N_4	n_4	W_4
5	Govt.: UHC/Sub centre/PHC		N_5	n_5	W_5
6	Govt.: Primary Health Centre (PHC) 0-30 bedded		N_6	n_6	W_6
7	Govt.: PHC/CHC 30-100 bedded		N_7	n_7	W_7
8	Govt. Hospital (secondary care): >100 bed		N_8	n_8	W_8
9	Govt. Military Hospital		N_9	n_9	W_9
10	Govt. TB Hospital		N_{10}	n_{10}	W_{10}
11	Govt. Hospital (Others)		N_{11}	n_{11}	W_{11}
12	Govt. (tertiary care): >500 bed		N_{12}	n_{12}	W_{12}
13	Govt. Veterinary Hospital		N_{13}	n_{13}	W_{13}
14	Govt. dental college		N_{14}	n_{14}	W_{14}
15	Clinics	Dental, Other private, Orthopedic, Eye, Pet, Diagnostic centres and laboratories	N_{15}	n_{15}	W_{15}

III.B.ii.b. Survey of the different categories of HCFs to conduct waste audit

- The HCFs to be visited to conduct waste audit were selected keeping in mind their importance in the state healthcare system, geographical spread and cover, bed strength and speciality.
- With prior permission of GWMC and intimation to the HCFs, a representative waste audit was conducted by an expert-supervised Toxics Link team through visits to the above mentioned categories of HCFs. The selected hospitals were contacted and asked not to dispose the waste generated by them. In depth audit of the hospitals was done to understand the current biomedical waste management practices in the state of Goa. The audit included finding out the pattern and volume of waste generation by HCFs, evaluation of knowledge on Bio medical waste and attitude of all people involved in managing this and current practices in the HCFs. The waste generated in each category were physically weighed and also verified with the existing records in the hospitals. Photo documentation was also done for future reference. The hospitals were visited to quantify the waste generated by them physically as well as by verifying the records if

maintained by them. As each category of hospital would be generating different amount of biomedical waste, the sample would give an idea on BMW generated by the hospitals from that particular category (PHC, CHC and DH).

The Waste Audit survey Questionnaire is provided in the Annexure VI.C.

KAP Analysis: This on-site survey and observation also included,

- a) Observation for the practices of biomedical waste segregation, collection, storage and record keeping,
- b) Understanding of the need of capacity building programs for the healthcare fraternity and
- c) Evaluating the infrastructural needs of the hospitals in order to develop state specific IEC materials.

III.B.ii.c. Estimation of Waste from HCFs

- Waste generation was estimated according to the categories of HCFs mentioned in Table 3.
- Formula applied to estimate the generation of bio-medical waste from HCFs in the state

Categories of Healthcare Facilities = $X_1, X_2, \dots, X_{15}$

Total number of beds in different categories of HCFs in the state = $N_1, N_2, \dots, N_{15}$

Amount of Waste generated in X_1 -category facility/day = W_1

Number of beds occupied in the facility (Current bed occupancy) = n_1

Amount of waste generated/day/bed = W_1/n_1

Total amount of waste generated/day in X -category of facilities in the State (Z_1) = $W_1/n_1 \times$

Total bed strength of the X_1 -category facilities in the State (N_1).

Total amount of waste generated/day from all the HCFs in the state = Total of all the waste generated from all categories of HCFs = $Z_1 + Z_2 + Z_3, \dots, + Z_{15}$

Estimation of waste according to color code category wise segregation

Efforts were made to obtain a first-hand colour code segregated waste generation data (as per the BMW Management Rules, 2016) from different categories of HCFs and the average

percentage of waste in different colour coded categories was estimated from the total amount of waste generated. This percentage was then used against the total waste generated to calculate category wise waste generation in the state from hospitals and from clinics separately.

Percentage of different categories waste generated by HCFs				
Waste Categories	Yellow waste	Red waste	Blue waste	White waste
Hospitals	46.28%	33.57%	16.70%	3.42%
Clinics & Path labs	31.24%	44.50%	17.88%	6.38%

- It has come out from the hospital visits that the patient loads and thereby the occupancy in the facilities increases during November to February by an average of 30 percent. Hence, the peak season waste generation amount has also been calculated adding to the average waste generation.
- The information thus obtained will be used in a) Categorisation of the recommended treatment options, e.g., incinerable waste, autoclavable waste etc., b) planning waste collection route , c) determining the capacity of waste disposal technologies like incinerator, autoclave, shredder and Effluent treatment plant.

III. C. Methodology for Estimation of Pharmaceutical Bio-Medical Waste

Pharmacies also come under the regulation of the BMW Rules, 2016 as they generate considerable amount of biomedical waste in terms of expired medicines. This waste also needs to be managed because if left unattended it may become source of several health hazards. To address these problems a separate pharmacy survey was conducted.

- Similar to the household survey, a pharmaceutical survey was conducted in the pharmaceuticals/medicine corners to estimate the amount of discarded medicines and other medical waste generated at their end as well as to analyse the Knowledge, Aptitude and Practice (KAP) prevailing in the state.
- *Sample size:* Goa has a total of 1020 pharmacies out of which 359 are wholesalers and 661 are retailers. Applying the sample size calculation formula mentioned in 'Section

III.b.’ with an 8% error margin and 95% confidence level (z-score 1.96), the pharmaceutical survey sample size was calculated to be 131. Surveys were conducted in the state covering both the districts and majority of the blocks. A uniform mixture of wholesaler and retailer type of pharmacies was considered for the survey purpose to ascertain the quality of the data collected.

- *Survey&data collection:* As detailed in the household survey methodologies, a pharmaceuticals survey framework was prepared and administered after pilot testing through the android based survey app, field investigators were engaged and orientated towards the survey and the survey was conducted by the investigators and monitored simultaneously.
- *Data analysis* was carried out using Microsoft Excel to estimate the average amount of expired medicines generated from the pharmaceuticals/month as well as to evaluate the disposal practices of the waste being generated from their end. Total amount of waste was calculated against the total number of pharmacies in the state.

Pharmaceutical Survey Questionnaire is provided in Annexure VI.D.

IV. The Inventory: Result and Analysis

IV. A. Knowledge, Attitude & Practice (KAP) analysis: Household & Pharmaceuticals

IV.A.i. Status of BMW Management at the household level: the case of sanitary napkins and diapers

Disposal of sanitary napkin remains a complicated and increasing problem in India, not just for a lack of segregation and unavailability of resources and infrastructure for their disposal management but also for their categorisation.

- According to the Solid Waste Management Rules, 2016 sanitary waste is categorized as solid waste and the soiled napkins, diapers, condoms, tampons and blood-soaked cotton coming from household waste are to be disposed after segregation and into biodegradable and non-biodegradable components. The rule also states that the sanitary waste shall be wrapped securely in the pouches provided by the manufacturers or brand owners of these products or in a suitable wrapping material as instructed by

the local authorities and shall be placed in the dry waste or non- bio-degradable waste bin.

- On the other hand, the BMWM Rules, 2016 prescribes household items contaminated with blood and body fluids, including cotton, dressings, soiled plaster casts, lines and bedding as bio-medical waste and to be incinerated, autoclaved or microwaved to destroy pathogens.
- The CPCB guideline for management of sanitary waste, made as per the Solid Waste Management Rules, 2016, lists down the current disposal practices at the household level as, i) open disposal at dump sites, ii) unwrapped disposal in common household bins, iii) burying in pit, iv) burning of the waste, v) using local incinerators and vi) flushing in toilet– all of which are unsafe and unscientific and can lead to health and environmental hazards. Also, the plastic contents of these disposal sanitary napkins are not bio-degradable and can take more than 250 years to degrade. The CPCB guideline also observes that the status of implementation of the sanitary waste management provisions as per the rule is almost zero. According to the guidelines, the most preferred method for disposal of sanitary waste is incineration in the Common Bio-medical Waste Treatment Plant.
- Of the 586,469,174 female population in India (Census of India, 2011), about 336 million girls and women, that is, 57 percent belong to the reproductive age mostly experiencing monthly menstruation and 36 percent of the menstruating women population in India are using locally or commercially produced disposable sanitary napkins as estimated from the National Family Health Survey (NFHS) 4 data, Census 2011 and market penetration data by Menstrual Health Alliance India and Water Aid (2018). Therefore, total number of sanitary pads disposed per year is 12.3 billion in India considering 121 million women in India uses sanitary napkin of the 336 million menstruating women population in the country and an average use of 8 sanitary napkins per cycle (MHM Resource Book & MHA and Water Aid, 2018).
- However, there is no such state specific estimation available in the country. Considering Goa's highest GDP and uplifted socio-economic conditions, there will be a difference in the usage and disposal pattern of sanitary napkins in the state. Hence, the household

survey was framed to bring out the information on the usage and disposal of sanitary napkins in Goa along with the knowledge, attitude and practice (KAP) analysis.

The KAP analysis carried out during the study at the household level reveals both the usage and disposal pattern of sanitary napkins and diapers in the state.

- Unlike the low national average, Goa has 97% of women menstruating population using sanitary napkins which is high for an Indian state but can be attributed to the higher GDP as well as the socio-economic status of Goa's populace. Rests were found to be using mostly cloth and other alternatives.
- Similar to the national findings (CPCB Guidelines, 2016), several unsafe disposal practices of the sanitary napkins were found in Goa. At the household level, disposal of sanitary napkins in the household municipal waste bins is the most prevalent practice (50%) followed by burning (40%). A few are disposed of by flushing in toilets (2%). Many of the households disposing the sanitary waste in the waste bins were found to be segregating them as non-bio-degradable waste but Goa does not have a system of collecting sanitary waste from household separately as of now, hence, the waste finally gets dumped in the landfill. Those belonging to 'others' mostly do not use sanitary napkins/diapers.

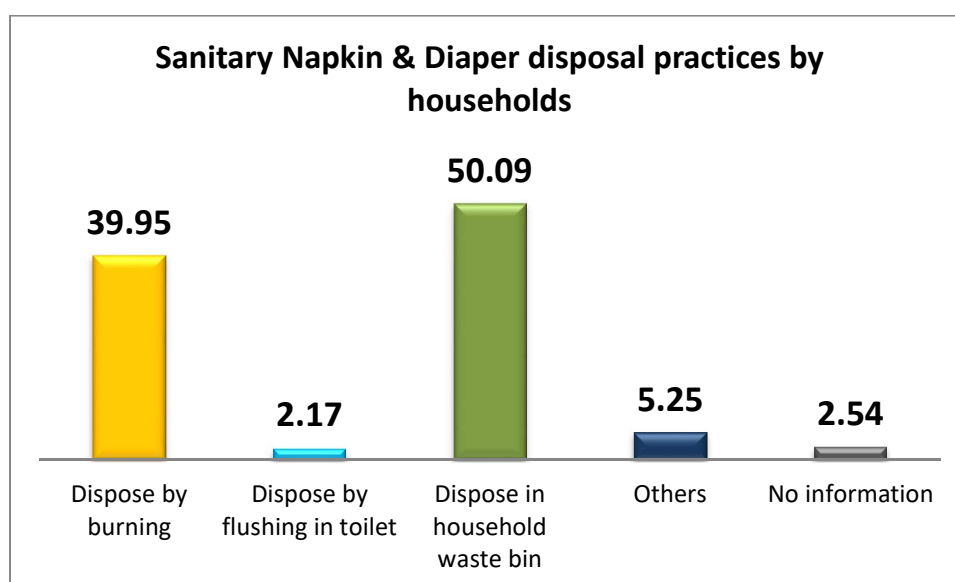


Figure 1: Sanitary Napkin & Diaper disposal practices by households

- Other household bio-medical wastes were expired medicines, soiled cotton and bandages and a few syringes which though almost every household produces but of a

very insignificant amount. Disposal practices are mostly in the household waste bins right now (77%) with a few also found to be burning them (11%).

IV.A.ii. Status of BMW Management in the Pharmaceuticals

Expired medicines from the pharmaceuticals are bio-medical waste and are prescribed to be returned back to the manufacturer or supplier for further treatment as per the BMWM Rules, 2016. Though most of the pharmaceutical units surveyed were found to be sending back the expired medicines to the distributors (76 percent), but many of them also resort to one or more measures like keeping an inventory, discarding in municipal bin and giving back to the distributors of drugs. These modes may be used simultaneously and hence there were more than one response for the same question.

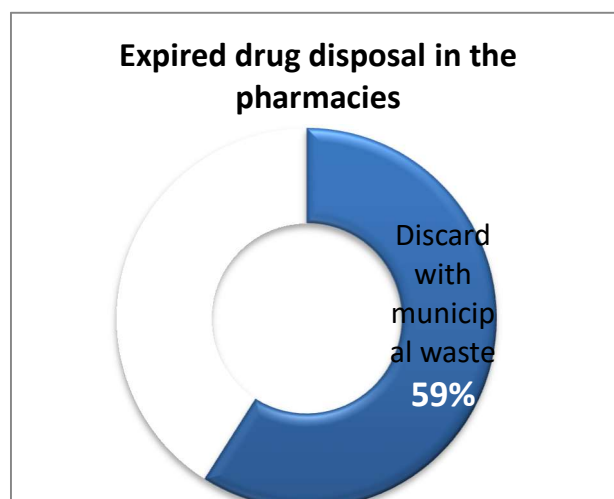


Figure 2: Expired drug disposal method (in %) in the pharmacies

IV. B. Knowledge, Attitude & Practice (KAP) analysis: Healthcare Facilities

IV.B.i. Situation On-Ground at the HCFs as Observed: at a glance

The hospital waste management situation in the healthcare facilities in Goa were evaluated by the Toxics Link expert team through physical visits, interactions, observations, semi-structured survey and interviews. A total number of 50 healthcare facilities were visited during the process covering a major part of all the categories. The KAP analysis was carried out based on the findings of these visited HCFs, a detailed report of 18 of the visited

facilities are annexed. A number of grey areas came out in the study – graphical analysis of which is presented below:

IV.B.i.a. Bio-medical waste management situation in the hospitals visited in Goa: Presence of BMW Management Committee

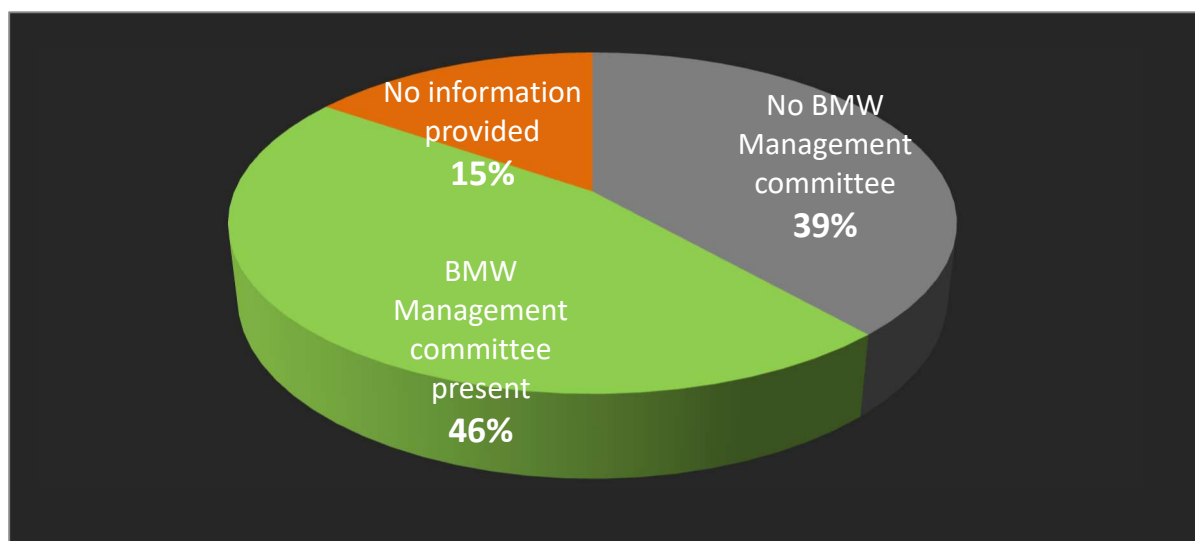


Figure 3: Presence of the BMW Management committee in the HCFs of Goa

It is A regulatory requirement for the healthcare facilities to establish a review and monitoring system for bio-medical waste either through an existing committee or by formation of a new committee. Less than 30 bedded facilities can designate a qualified person for the review purpose. However, it has been evaluated from the physical audits that only 46 percent of the healthcare facilities visited have either designated bio-medical waste management committee or the infection control committee are looking after the bio-medical waste management. A huge 39 percent of the visited facilities did not have any bio-medical waste monitoring or review committee and no sufficient information was provided from 15 percent of the visited facilities.

IV.B.i.b. Bio-medical waste management situation in the hospitals visited in Goa: Compliance of Infrastructural Requirements for BMW Management & handling in the HCFs

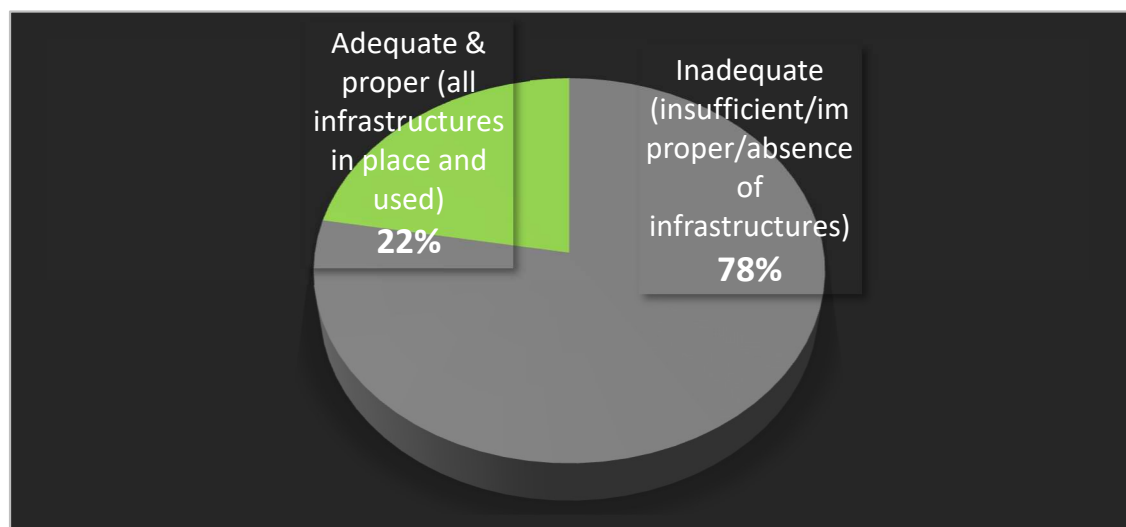


Figure 4: Infrastructure for in-house BMW Management & Handling in the HCFs of Goa

According to the Schedule I of BMWRules, 2016, health care facilities should have waste at-source chemical treatment facility (10% sodium hypochlorite), segregation infrastructures (colour coded bins and lining bags), on-site pre-treatment facility for laboratory waste, microbiological waste, blood sample or blood bag sterilization or disinfection facility, needle cutter, leak proof container for sharp storage, mutilation or shredding for preventing unauthorised use and use of deep burial only in rural or remote areas without access to CBWTF. However, the bio-medical waste management infrastructures in majority of the visited healthcare facilities were observed to be improper and insufficient (78%) apart from a few. In absence of any trolley, manual collection and transfer of the waste from bins by the staffs were practiced in many of the HCFs. Some does not have any colour coded bins or even if the bins were coloured, liner bags were not colour coded in many facilities. Open bins were also found. Use of needle cutter was also very limited. Only 22 percent of the facilities were found to have all these necessary infrastructures in place and in use. Deep burial pit for placenta and sharp pit is the only method used now by the HCFs in Goa in the absence of any CBWTF.

IV.B.i.c. Bio-medical waste management situation in the hospitals visited in Goa: Segregation Practices followed for BMW

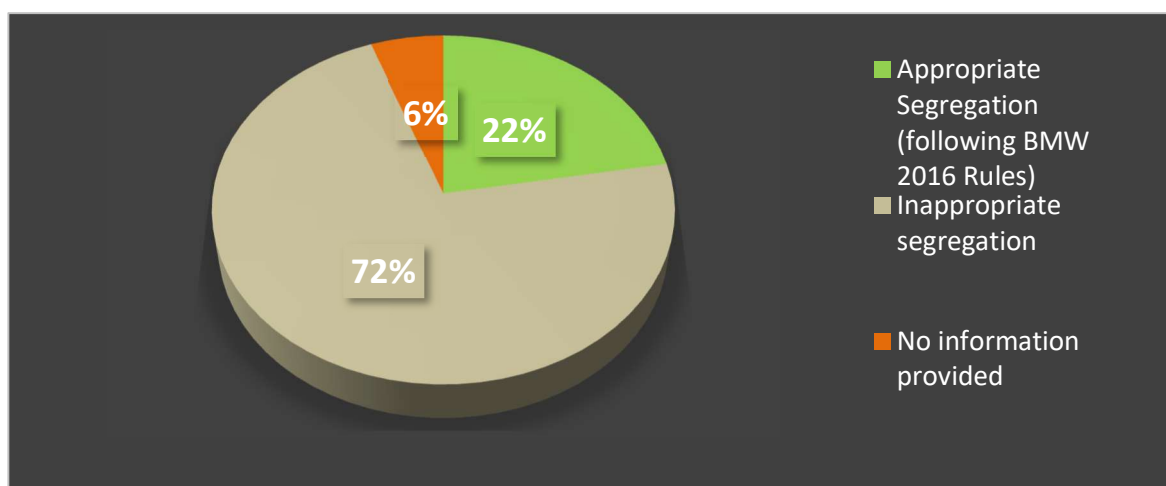


Figure 5: BMW segregation practices followed in the HCFs

Schedule I of BMWM Rules, 2016 prescribes segregation of bio-medical waste at-source in four categories as well as the type of container that shall be used for these categories of waste. But this has mostly not been followed by the HCFs in Goa. Inappropriate segregation was observed in 72 percent of the visited health care facilities. Mixing of different categories of waste, self (or outsourced agency)-designed category segregation were found to be widely practiced.

IV.B.i.d. Bio-medical waste management situation in the hospitals visited in Goa: Compliance of the Record Maintenance by HCFs

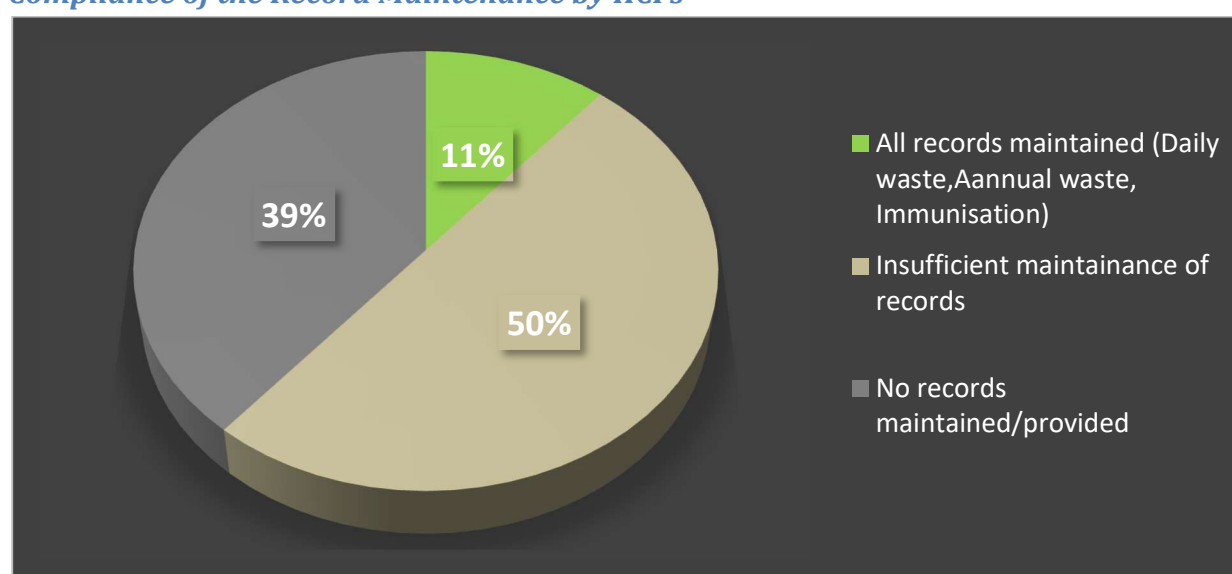


Figure 6: Maintenance of Records related to BMW in the HCFs of Goa

Record maintenance of daily waste, annual waste and immunisation and vaccination by the HCFs were considered in this section. This was found to be poor across the facilities. No maintenance of daily record was reported in 50 percent of the units visited. Records of training provided, and immunisation given to the healthcare workers were almost non-existent. Many of the facilities which maintained records were also found to be have been copying earlier measurements as it was for the last 2 years or more. Category-wise maintenance of waste records was again doubtful as the waste segregation categories were not followed in actual. Insufficient maintenance of records. The pictorial analysis represents those facilities which do not maintain all three of the records.

IV.B.i.e. Bio-medical waste management situation in the hospitals visited in Goa: Status of BMW Storage Area

HCFs are prescribed by the BMWM Rules, 2016 to make provisions within the premises for a safe, ventilated and secured location for storage of segregated biomedical waste in colored bags or containers in the manner as specified in Schedule I.

However, 25 percent of the visited facilities did not have any BMW storage area, 50 percent were though found to have designated storage areas but were not following the provisions of the rule as they were either open without walls or roofs or open accessed, or water

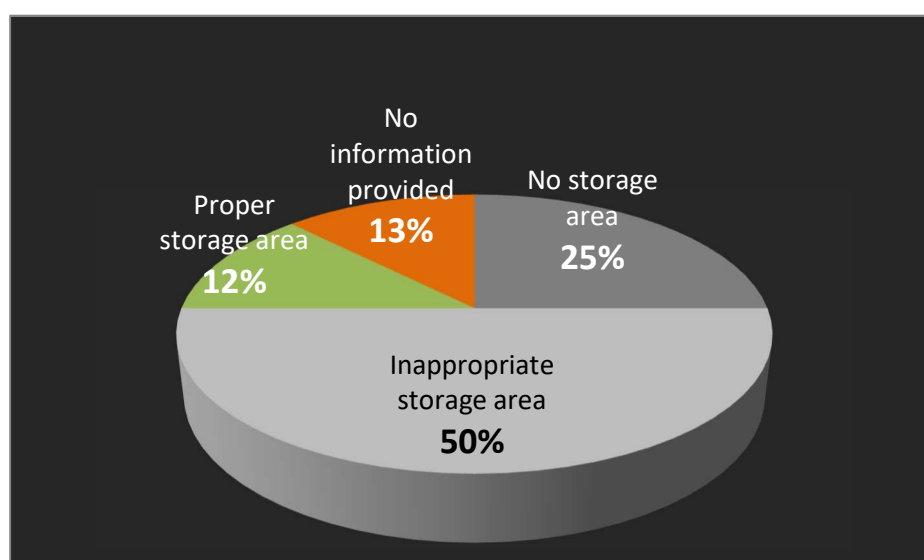


Figure 7: Status of BMW Storage Area in the HCFs of Goa

logged or were found to have waste unmanaged and piled together with all categories mixed. Very few facilities (13%) were found to have proper storage area for biomedical waste generated before

transporting to the disposal facilities.

IV.B.i.f. Bio-medical waste management situation in the hospitals visited in Goa: Status of Training Provided to the Healthcare workers

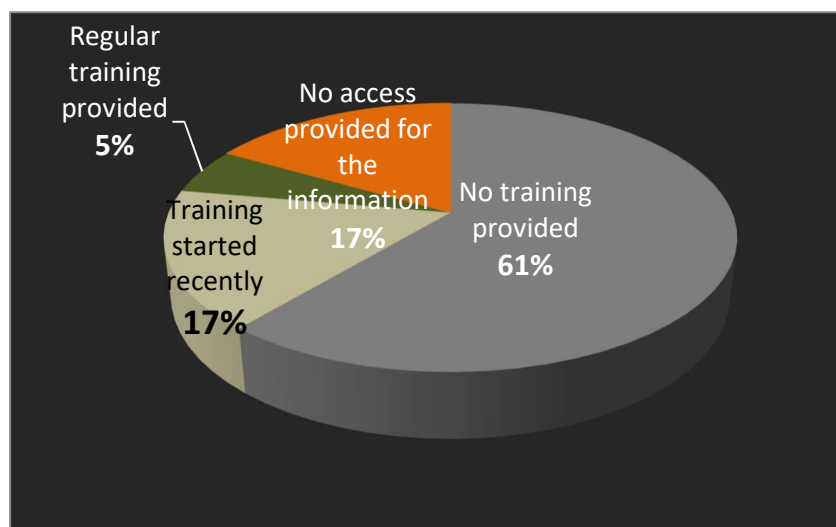


Figure 8: Status of BMW training provided to the Healthcare workers in the HCFs of Goa

Most of the healthcare workers (59%) were found to have not received any training on handling of bio-medical waste which is also reflected in the segregation practices. In a few facilities, BMW training has started only recently. In any cases training records were never maintained.

Detailed bio-medical waste management situation report in HCFs of Goa is provided in Annexure VI.E.

IV. C. Estimation of Sanitary waste and bio-medical waste generation from households & pharmaceuticals

IV.C.i. Estimation of generation of sanitary napkin waste

- Percentage of female population belonging to menstruating population (10-54 years) in Goa (of the total female population) = 69% (according to NFHS-4 2015-16, Goa)
- Total female population of Goa in 2015 = 733,710 (calculated from Census 2011 projection)
- Total number of female belonging to menstruating population in Goa in 2015 = 506,260
- Percentage of female menstruating population using sanitary napkins in Goa = 97 percent
- Total number of female menstruating population using sanitary napkins = 491,072

- Average number of sanitary napkins used per cycle per female in Goa = 11 (estimated from the household survey)
- **Total number of sanitary napkins disposed per day in Goa = 180,060**
- **Total number of sanitary napkins disposed in Goa in a year = 65,721,816**
- Weight of an average used sanitary napkin in Goa = average weight of a sanitary napkin (7 gms) + average menstruation blood output per cycle per female (35 ml) / average number of sanitary napkins used in Goa per female per cycle (11) = 10gms(primary study during the current inventory).
- **Thereby, the amount (weight) of sanitary napkins disposed in Goa per day = 1801 kg or 1.8 tonnes**
- **And, the amount (weight) of sanitary napkins disposed in Goa in a year = 657,218 kg or 657 tonnes**
- **Disposal during tourist season:** Also, Goa experiences a seasonal influx (October to January) of tourist population which can be as high as 5 times the population of Goa. During the tourist season, the sales of sanitary napkins increase by 20-30 percent as reported in the independent survey carried out during the study of various sanitary napkin dealers and suppliers.**Thereby, considering an increase of disposal by an average of 25 percent during the tourist season, the total amount (number and weight) of sanitary napkins disposed in a day will be around 225,075 (in number) and 2251 kg or 2.2 tonnes respectively.**

Population projection and projected waste:

- Population growth rate in Goa in 2011 = 8.23 percent
- Population growth rate in Goa in 2001 = 14.89 percent
- Thereby, the likely population growth rate in Goa in 2021 and beyond = 3.7 percent
- Projected population of Goa in 2028 = 1,564,373
- Projected female population of Goa in 2028 = 858,508
- Projected female menstruating population of Goa in 2028 = 592,370
- **Projected total number of sanitary napkins disposed per day in 2028 (considering a 100 percent usage) = 217,203**

- **Projected total number of sanitary napkins disposed in 2028 (considering a 100 percent usage) in a year = 79,278,921**
- **Projected amount (weight) of sanitary napkins disposed in Goa per day in 2028 = 2172 kg or 2.2 tonnes**
- **Projected amount (weight) of sanitary napkins disposed in Goa in 2028 = 951,347 kg or 951 tonnes**
- **Disposal during tourist season: Projected amount (number and weight) of sanitary napkins disposed in a day in 2028 during the tourist season will be around 271,503 (in number) and 2715 kg or 2.7 tonnes respectively.**

IV.C.ii. Estimation of generation of children diaper waste

- **Total number 0-2 years child population in Goa =40227 (considering a 13.79 percent birth rate in Goa per '000' population in 2016.)**
- **Percentage of child population using diapers = 90 percent(estimated from the household survey)**
- **Total number of child population using diapers = 36,204**
- **Average number of diapers used per day per child in Goa = 2.3 (estimated from the household survey)**
- **Total number of child diapers disposed in Goa per day = 83,270**
- **Total number of child diapers disposed in Goa in a year = 30,393,510**
- **Average weight of a used child diaper = average weight of a child diaper used for 10 hours = 110 gms(primary study during the current inventory)**
- **And, the amount (weight) of child diapers disposed in Goa per day = 9160 kg or 9 tonnes**
- **Thereby, the amount (weight) of child diapers disposed in Goa in a year = 3,343,286 kg or 3343 tonnes**

Projected waste:

- **Projected 0-2 years child population in 2028 = 41,715**
- **Projected total number of child diapers disposed per day in 2028 = 86,351**
- **Projected total number of child diapers disposed in 2028 in a year = 31,518,070**

- **Projected amount (weight) of child diapers disposed in Goa per day in 2028 = 9499 kg or 9.5 tonnes**
- **Projected amount (weight) of child diapers disposed in Goa in 2028 =3,466,988kg or 3467 tonnes**

IV.C.iii. Estimation of generation of adult diaper waste

- Percentage of 60 years and above adult population in Goa (of the total population) = 12% (according to NFHS-4 2015-16, Goa)
- Total number of 60 years and above adult population in Goa in 2015 = 180,021(calculated from Census 2011 projection)
- Percentage of adult population using adult diapers in Goa = 7.8 percent(estimated from the household survey)
- Total number of adult population using adult diapers = 14,042
- Average number of adult diapers used per adult per month in Goa = 29 (estimated from the household survey)
- **Total number of adult diapers disposed in Goa per day = 13,574**
- **Total number of adult diapers disposed in Goa in a year = 4,954,358**
- Average weight of an used adult diaper = average weight of an adult diaper (75 gms) + average urine output per adult per 8 hr (350 ml) = 425 gms (primary study during the current inventory)
- **And, the amount (weight) of sanitary napkins disposed in Goa per day = 5,769 kg or 5.8 tonnes**
- **Thereby, the amount (weight) of adult diapers disposed in Goa in a year = 2,105,602 kg or 2,105 tonnes.**

Projected waste:

- Projected adult population (60 years and above) = 189,289
- Projected adult population using adult diapers = 14,765
- **Projected total number of adult diapers disposed per day in 2028 (considering the same usage percentage) = 14,272**

- Projected total number of adult diapers disposed in 2028 in a year (considering the same usage percentage) = 5,209,423
- Projected amount (weight) of adult diapers disposed in Goa per day in 2028 = 6,066 kg or 6 tonnes
- Projected amount (weight) of adult diapers disposed in Goa in 2028 =2,214,005kg or 2,214 tonnes

IV.C.iv. Estimation of other bio-medical waste from households

- The primary household survey has found that the other bio-medical waste generating from households apart from sanitary napkins and diapers are expired medicines, soiled cottons and bandages and syringes. But such wastes were found to be very less in amount even when annually assessed. Syringes are discarded by only a few households (8%). An average of 86 percent households discards this category of household BMW of an annual average amount of 100gms per household.
- Total number of residential households in Goa (Census of India 2011) = 341,617
- Households discarding other bio-medical waste in Goa = 293,791
- Amount of other bio-medical waste discarded from households annually = 29379 kg or 29.4 tonnes
- Amount of other bio-medical waste discarded from households per day = 80.5 kg

Table 4: Inventory of Household Sanitary & Bio-medical Waste in Goa

Current Amount	Sanitary Napkin (No.)	Sanitary Napkin (Kg)	Sanitary napkin in tourist season (No)	Sanitary napkin in tourist season (kg)	Child Diaper (No.)	Child Diaper (Kg)	Adult Diaper (No.)	Adult Diaper (Kg)	Other HH BMW (kg)
Disposed daily	180060	1801	225075	2251	83270	9160	13574	5769	80.5
Disposed in a year	65721816	951347	--	--	30393510	3343286	4954357.9	2105602	29379
Projected Amount (2028)									
Disposed daily	217203	2606	271503	2715	86351	9499	14272	6066	--
Disposed in a year	79278921	951347	--	--	31518070	3466988	5209423	2214005	--

IV.C.v. Estimation of Pharmaceutical waste generation

As estimated from the pharmaceutical survey against the total number of pharmacies in Goa, a total amount of 29442kg of pharmaceutical waste is generated on an annual basis in the state. Most of this waste is now sent back to the drugs distributors. A few of them also resort to one or more measures like keeping an inventory, discarding in municipal bins which would need an awareness to address.

IV. D. Estimation of bio-medical waste generation from the Health Care Facilities in Goa

For the purpose of inventorisation it is important and critical to identify and list various kinds of healthcare facilities existing in the state and estimate the nature and quantity of waste being generated by such facilities. Healthcare services in the state of Goa are divided under public and private both complementing each other. It is a unique character of Goa that significantly large areas continue to be rural with dispersed population. The public healthcare facilities have been so designed and evolved over time that it provides services to most remote and deep pockets of the state.

IV.D.i. Identification of healthcare facilities.

Both the public and private facilities can be bedded or non-bedded and both meet their respective objectives of providing services to common citizens. Bedded facilities are those where indoor patients are admitted and provided with facility while non bedded facilities are only for consultations and providing treatment. In the category of Public Health service the bedded facilities can be broadly subdivided into:

- Primary Health Centre (PHC)
- Community Health Centre (CHC)
- Sub-District Hospitals
- District Hospitals
- State Hospitals (Goa Medical College)
- TB and Chest hospital
- Leprosy Hospital
- Dental College and Hospital

- ESI Hospital

The non-bedded public facilities in the state that provide only outdoor services can be categorized under

- Sub-Centre (SHC)
- PHC (non-bedded)
- Rural Medical Dispensary(RMD)
- Urban Health Centre (UHC)
- ESI dispensary

The private healthcare facilities can also be both bedded and non bedded and provide different levels of specialized services to patients broadly categorized into primary ,secondary and tertiary care or multi specialty and super specialty. The bedded facilities can be further sub-divided into:

- General Hospital
- Maternity and Child Care
- Urology
- Orthopedic
- Multi-specialty Hospital

The non-bedded facilities under private sector can be:

- OPD Clinics
- Dental Clinics
- Path labs and Diagnostic Centers

During the course of identification of all healthcare facilities the team visited all such facilities and interacted with staff to verify details on the specificity of facility, ownership and nature of waste being generated by such facilities also mapping its exact location.

The key findings of healthcare facility mapping and survey are:

- The State of Goa has 50public healthcare facilities (excluding veterinary & dispensaries) with a total bed capacity of 3159. *(List of public hospitals along with PHCs, CHCs & UHCs provided in Annexure VI.F.)*
- Total number of non-bedded facilities under public healthcare systems are 14 dispensaries.

- It has 102 facilities under the category of private healthcare with a total bed capacity of 2443. (*List of private bedded healthcare facilities provided in Annexure VI.G.*)
- The total beds currently available under both public and private sector are 5602.
- The state is expected to add additional 558 beds under the public facilities in near future many of these are under different phases of construction.
- Goa has one dental college under public healthcare and 251 dental clinics across the state under private health care system.
- The state also has 5 veterinary hospitals and 25 clinics under public facilities and 27 pet clinics under the category of private facilities. (*List of govt. veterinary hospitals provided in Annexure VI.F and pet clinics in Annexure VI.H.*)
- Apart from bedded facilities in private sector the state also has approximately 482 non-bedded facilities (excluding dental clinics) that cater to consultations, observation, diagnostics and select treatment. (*List of private non-bedded healthcare facilities provided in Annexure VI.I and private dental clinics provided in Annexure VI.J.*)

IV.D.ii. Waste quantification from Healthcare facilities in Goa.

Having identified the healthcare facilities belonging to both public and private sector we quantify total waste generation in the state. The methodology to quantify total waste generation is based on per bed waste generation from each specific category of facility clubbed into groups based on certain similarities.

Table 5: The list of categories considered for government and private facilities are:

Categorisation of Government healthcare facilities	Categorisation of Private healthcare facilities
1. Government Primary Health Centre: 0-20	1. Private Hospital: 0-20 bedded multi-speciality
2. Government PHC/Community Health Centre: 30-100	2. Private Hospital: 20-50 bedded multi-speciality
3. Government District Hospital (secondary care): >100 bed	3. Private Hospital: 50-100 bedded multi-specialty
4. Governmet more than 500	4. Private Maternity
5. GovernmnetVeterinary Hospital	5. Private Eye
6. Government Urban Health Centre	6. Private Urology
7. Military Hospital	7. Dental Clinic

8. Goa Dental College	8. Orthopedic
	9. General
	10. Diagnostic Laboratories
	11. Pet clinic
	12. T.B. Hospital
	13. Private Ayurveda
	14. Government Psychiatry

Per bed waste generation for each specific category of facility has been calculated by dividing total waste generation of that particular group by the current occupancy. The results are as follows:

Table 6: Per bed waste (bio-medical) generation from different categories of health care facilities

Type of Facility	Waste generation in gms(per bed/ per day)
1 Government: Primary Health Centre0-20	329.00*
2 Government: PHC/Community Health Centre30-100	354.22*
3 Government District Hospital (secondary care): >100 bed	356.12*
4 Government more than 500	572.17*
5 GovernemntVeterinary Hospital	1872.50*
6 Government: Urban Health Centre	728.33‡
7 Military Hospital	188.89*
8 Goa Dental College	8892.00‡
9 Private Hospital: 0-20 bedded multi	463.48*
10 Private Hospital: 20-50 bedded multi	463.48*
11 Private Hospital: 50-100 bedded multispeciality	574.60*
12 Private Maternity Hospital	501.78*
13 Private Eye Hospital	216.67*
14 Private Urology Hospital	841.77*
15 Dental Clinic	340.00‡
16 Ortho private Clinic	944.33‡
17 General Clinic	63.33‡
18 Diagnostic Laboratories	426.67‡
19 Pet clinic	575.00‡
20 T.B. Hospital	363.64*
21 Private Ayurveda Hospital	66.67*
22 GovernmentPsychiatry Hospital	10.18*

*: Waste generation per bed per day; ‡ : Total waste generation per day

After having obtained the total number of health care facilities (of each specific type), their corresponding bed strengths in the state and per bed waste generation for each specific

type of health care facilities, it is easy to work out the total waste generation in the state. We have, however, worked out the waste generation separately for government facilities, and in private sector and non-bedded clinics operating in the state.

Table 7: The total waste generation for facilities in private sector

Type	Bed strength	Occupancy	Average waste per day per bed (in gm)	Current generation daily (in kg)	Estimated waste daily (in kg)	Total waste annually (in kg)
<u>Private Hospitals (0-20 bedded)</u>						
Multi	476	216	463.48	100.11	220.62	80524.87
Maternity	377	210	501.78	105.37	189.17	69047.86
Urology	11	5	841.77	4.21	9.26	3379.70
Other	5	3	0.00	0.00	0.00	0.00
Ortho	12	7	463.48	3.24	5.56	2030.04
eye	10	6	216.67	1.30	2.17	790.83
67	891	447		214.24	426.78	155773.31
<u>Private Hospitals (20-50 bedded)</u>						
Multi	644	335	463.48	155.27	298.48	108945.41
Maternity	104	22	501.78	11.04	52.19	19047.69
Urology	46	2	841.77	1.68	38.72	14133.31
Others	25	9	0.00	0.00	0.00	0.00
27	819	368		167.99	389.39	142126.40
<u>Private Hospitals (50 -100 bedded)</u>						
Multi	125	55	574.60	31.60	71.83	26216.13
Other	100	30	66.67	2.00	6.67	2433.33
3	225	85		33.60	78.49	28649.46
<u>Private Hospitals (>100 bedded)</u>						
Multi	550	215	574.60	123.54	316.03	115350.96
	550	215		123.54	316.03	115350.96

Total	Private	2485	1115	539.37	1210.69	441900.13
(A): 101						

List of Private hospitals are provided in Annexure VI.H

Total waste generation for different types of government facilities have been obtained by multiplying the bed strength for that type and per bed waste generation.

Table 8: Details of total waste generation for bedded government facilities

Type	Bed strength	Occupancy	Average waste per day per bed (in gm)	Current generation daily (in kg)	Estimated waste daily (in kg)	Total waste annually (in kg)
UHC/Sub centre/PHC	23	23	728.33	16.75	16.75	6114.36
PHC bedded	393	118	329.00	38.82	129.30	47193.41
PHC/CHC 30-100	485	181	354.22	64.11	171.80	62706.19
Govt.>100	1155	653	356.12	232.55	411.32	150131.78
Military	96	90	188.89	17.00	18.13	6618.67
TB	145	91	363.64	33.09	52.73	19245.45
Other	200	110	0.00	1.12	2.04	743.27
Govt.>500	1235	1235	572.17	706.63	706.63	257921.70
Govt Vet Hospital	5	5	1872.50	9.36	9.36	3417.31
Govt dental college	0	117patients/day	8892.00	8.89	8.89	3245.58
Total Govt (B): 64	3709*	2478		1119.44	1526.95	557337.72

*While computing the total bed strength in public sector we have taken into account additional 558 beds that are in different stages of addition at various locations/facilities in government sector.

List of Public Healthcare Facilities (Hospitals) are provided in Annexure VI.G

List of PHCs and CHCs are provided in Annexure VI.F.

Table 9: Details of waste generation from clinics and laboratories as calculated

Type	Number units	of	Average waste per day per bed (in gm)	Current generation daily (in kg)	Estimated waste daily (in kg)	Total waste annually (in kg)
------	--------------	----	---------------------------------------	----------------------------------	-------------------------------	------------------------------

Dental	258	340.00	87.72	87.72	32017.80
Private	361	63.33	22.86	22.86	8344.68
Orthopedic	24	944.33	22.66	22.66	8272.33
Eye Clinic	21	63.33	1.33	1.33	485.42
Pet Clinic	22	575.00	12.65	12.65	4617.25
Path lab Clinic	63	426.67	26.88	26.88	9811.20
Total Clinics	749		174.11	174.11	63548.68

The total bio-medical waste generation from various healthcare facilities in Goa is approximately 2911 kgs/day and an additional quantity of 80 kgs generation from households.

The table below presents a complete account of waste generated from healthcare facilities, clinics and households also generated from use of diapers and sanitary napkins.

Table 10: Current Generation of BMW from different sources

Sources of BMW	Annual (kg)	Daily (kg)
BMW from HCFs-hospitals (X_1)	999237.85	2737.64
BMW from HCFs-clinics (X_2)	63548.68	174.11
Other BMW from HH (Y_1)	29379	80
Total BMW generated in Goa from all sources ($X_1+X_2+Y_1$)	1092166	2992
Sanitary napkin from HH (Y_2)	951347	1801
Sanitary napkin from HH in tourist season (Y_{t2})	--	2251
Child Diaper from HH (Y_3)	3343286	9160
Adult Diaper from HH (Y_4)	2105602	5769
Total sanitary waste generated in Goa from HH	6400235	17179

The total BMW generation is 2992 kgs and total sanitary waste generated per day is 17179 kgs. It will be critical to categorise this waste into segregated waste as per the colour codes defined in BMWM Rules, 2016 and to obtain these figures both for healthcare facilities and clinics we have used our percentages obtained in doing the actual survey in different facilities.

The table below represents the category-wise waste generation for all waste generated from different kinds of facilities.

Table 11: Category-wise generation of Bio-medical waste from Hospitals in Goa

Waste Categories	Average % of waste in each category	Daily Amount of Waste (kg) in Goa	Annual Amount of Waste (kg) in Goa
Yellow Waste	46.28%	1267	462447
Red Waste	34%	919	335424
Blue Waste	17%	457	166853
White Waste	3%	94	34214

Table 12: Category wise generation of Bio-medical waste from Clinics &Households in Goa

Waste Categories	Average % of waste in each category	Daily Amount of Waste (kg) in Goa	Annual Amount of Waste (kg) in Goa
Yellow Waste	31.24%	80	29026
Red Waste	44.50%	113	41357
Blue Waste	17.88%	46	16614
White Waste	6.38%	16	5930

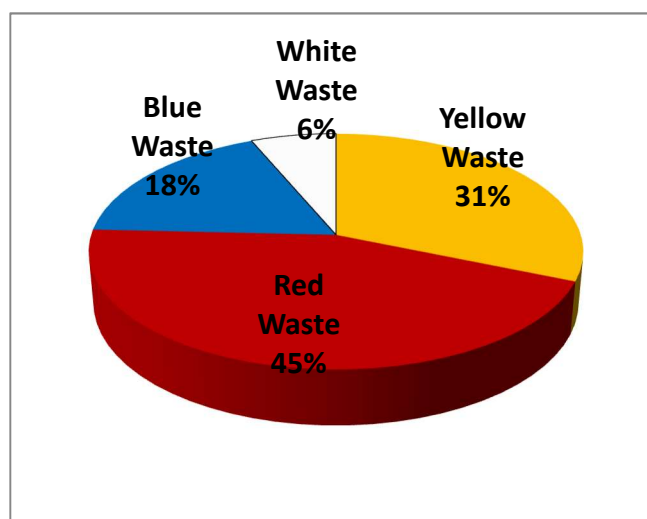
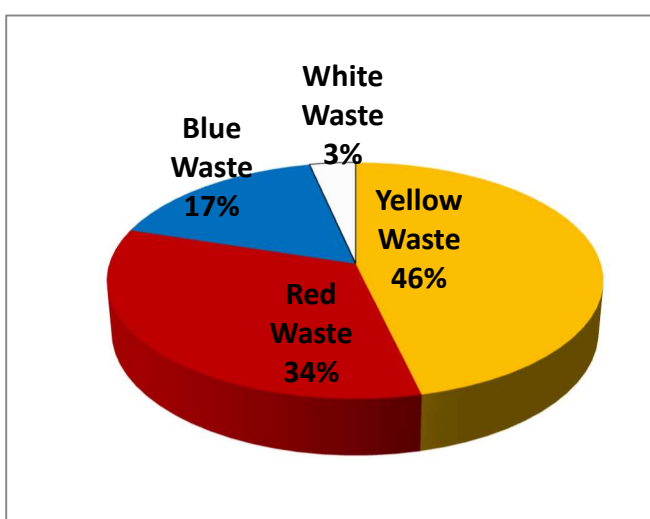


Figure 10: Category wise percentage of bio-medical waste generation from hospitals in Goa

Figure 9: Category wise percentage of bio-medical waste generation from the clinics in Goa

Table 13: Total Bio-medical waste generation from hospitals clinics & households in Goa in different categories

Waste Categories	Daily Amount of Waste (kg) in Goa	Annual Amount of Waste (kg) in Goa
Yellow Waste	1347	491474
Red Waste	1032	376781
Blue Waste	503	183467
White Waste	110	40144
Total BMW generated in Goa from all sources ($X_1+X_2+Y_1$)	2992	1092166
Total sanitary waste generated in Goa from HH	17179	6400235

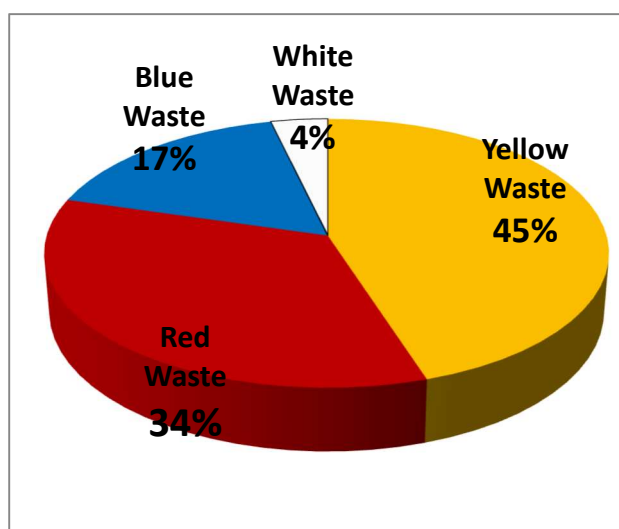


Figure 11: Category wise percentage of total bio-medical waste generation in Goa

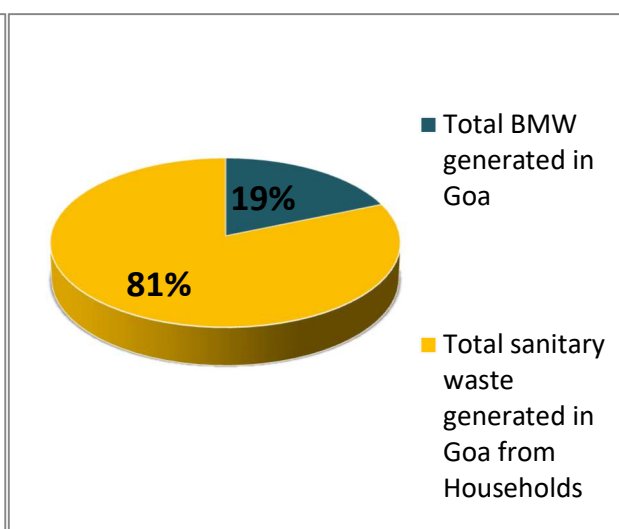


Figure 12: Bio-medical waste and sanitary waste generation in Goa

IV.D.iii. Dispersal of BMW from HCFs among the districts in Goa

A district wise distribution of bio-medical waste from healthcare facilities has also been estimated to have a segregated region wise data so as to develop the waste collection and transport system/network in the state. Following are the detailed district and taluka-wise waste generation amounts from healthcare facilities.

Table 14: District wise waste generation- North

Type of healthcare facilities	Taluka wise Waste generation in kg per day						
	Bardez	Bicholim	Sattari	Tiswadi	Ponda	Pernem	North District
Total Private (A)	245.42	56.80	0.00	267.54	96.59	27.81	694.16
Total Govt (B)	113.15	43.26	27.40	781.73	77.14	37.86	1080.53
(A+B)	358.57	100.07	27.40	1049.27	173.73	65.67	1774.69
Total Clinics (C)	44.95	2.12	0.47	40.32	12.97	1.93	102.76
Total (A+B+C)	403.52	102.19	27.87	1089.59	186.70	67.60	1877.45

BMW generation in North District of Goa

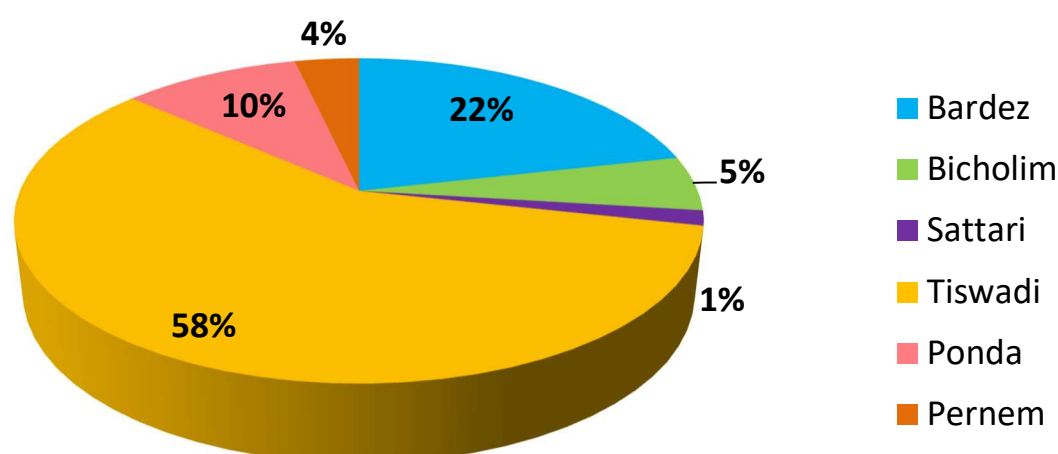
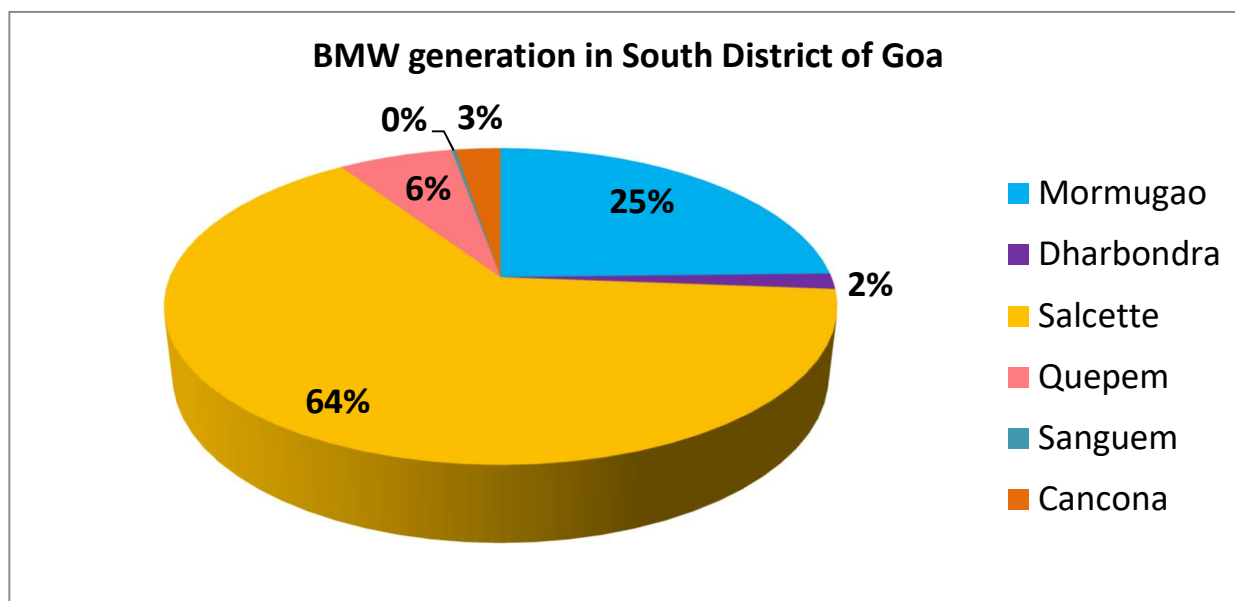


Table 15: District wise waste generation- South

Type of healthcare facilities	Taluka wise Waste generation in kg per day						
	Mormugao	Dharbondra	Salcette	Quepem	Sanguem	Cancona	South District
Total Private (A)	119.85	0.00	377.67	19.00	0.00	0.00	516.52
Total Govt (B)	121.88	16.45	237.60	44.05	1.65	24.80	446.42
(A+B)	241.73	16.45	615.27	63.05	1.65	24.80	962.94
Total Clinics (C)	12.96	0.00	50.76	5.06	0.53	2.04	71.35
Total (A+B+C)	254.69	16.45	666.03	68.11	2.18	26.84	1034.29



IV.D.iv. Projection of BMW generation from HCFs in Goa

The yearly estimation of projected waste was calculated considering the likely growth rate in Goa beyond 2018 as mentioned in the methodology. This is important in designing the capacity of the infrastructures for the Common Bio-Medical Waste Treatment Facility.

Table 16: Category-wise waste project in North district

North District	Yellow	Red	Blue	White	Total
Hospitals	821.33	595.73	296.34	60.77	1774.16
Clinics	32.10	45.73	18.37	6.56	102.76
2018	853.43	641.46	314.71	67.32	1876.92
2019	857.69	644.67	316.28	67.66	1886.31
2020	861.98	647.89	317.87	68.00	1895.74
2021	866.29	651.13	319.45	68.34	1905.22
2022	870.62	654.39	321.05	68.68	1914.74
2023	874.98	657.66	322.66	69.02	1924.32
2024	879.35	660.95	324.27	69.37	1933.94
2025	883.75	664.25	325.89	69.72	1943.61
2026	888.17	667.57	327.52	70.06	1953.33
2027	892.61	670.91	329.16	70.41	1963.09
2028	897.07	674.27	330.80	70.77	1972.91

Table 17: Category-wise waste project in South district

South District	Yellow	Red	Blue	White	Total
Hospitals	445.65	323.24	160.79	32.97	962.65
Clinics	22.29	31.75	12.76	4.55	71.35
2018	467.94	354.99	173.55	37.52	1034.00
2019	470.28	356.77	174.42	37.71	1039.17
2020	472.63	358.55	175.29	37.90	1044.37
2021	474.99	360.35	176.17	38.09	1049.59
2022	477.37	362.15	177.05	38.28	1054.84
2023	479.75	363.96	177.93	38.47	1060.11
2024	482.15	365.78	178.82	38.66	1065.42
2025	484.56	367.61	179.71	38.86	1070.74
2026	486.99	369.45	180.61	39.05	1076.10
2027	489.42	371.29	181.52	39.25	1081.48
2028	491.87	373.15	182.42	39.44	1086.88

V. Reference

1. Biomedical Waste Management Rules, 2016. Ministry of Environment, Forest & Climate Change, Govt. of India.
2. Implementation Guidelines for Management of Healthcare Waste in Health Care Facilities as per BMW Rules, 2016. National Health System Resource Centre, Technical Support Institution with National Health Mission, Ministry of Health & Family Welfare, Government of India
3. Mandal S. K. and Dutta J. 2009. Integrated Bio-Medical Waste Management Plan for Patna City, Institute of Town Planners, India Journal 2: 1-25.
4. WHO. Definition and characterization of health-care waste. Available at http://www.who.int/water_sanitation_health/medicalwaste/002to019.pdf accessed on 27.07.2018.
5. Secretariat of the Basel Convention UNEP, WHO. Fundamentals of health-care waste management. In National Health-Care Waste Management Plan: Guidance Manual. Available at http://www.who.int/water_sanitation_health/medicalwaste/en/guidancemanual1.pdf accessed on 27.07.2018.
6. Kalpana V.N., Prabhu D. S., Vinodhini S. and Devirajeswari V. 2016. Biomedical waste and its management. Journal of Chemical and Pharmaceutical Research 8(4): 670-676.
7. Pépin J, Abou Chakra CN, Pépin E, Nault V, Valiquette L. 2014. Evolution of the global burden of viral infections from unsafe medical injections, 2000-2010. PLoS One. 9(6):e99677.
8. World Bank Data. <https://data.worldbank.org/indicator/SH.MED.BEDS.ZS?view=chart> (accessed on 03.08.2018).
9. Menstrual Health Alliance India. 2018. Solid and Liquid Resource Management: Menstrual Hygiene Management. Resource book for Menstrual Waste Management. Swachh Bharat Mission. <http://swachhbharatmission.gov.in/slrm/Documents.aspx> (accessed on 09.08.2018)
10. National Family Health Survey (NFHS). 2018. NFHS-4 Goa: 2015-16. Ministry of Health and Family Welfare, Govt. of India. Available at <http://rchiips.org/nfhs/NFHS-4Reports/Goa.pdf> (Accessed on 20.08.2018)
11. <http://www.nhm.gov.in/nhm/nrhm/guidelines/indian-public-health-standards.html>
12. Central Pollution Control Board (CPCB). 2018. Guidelines for Management of Sanitary Waste. As per Solid Waste Management Rules 2016. CPCB, Ministry of Environment, Health & Climate Change, Govt. of India.
13. Directorate of Planning, Statistics & Evaluation. 2017. Goa Economy in Figures – 2017.

VI. Annexure

VI.A. Questionnaire for Household Survey to estimate BMW generated from households in Goa

Household survey

Section 1

- 1) Name of the Surveyor:
- 2) Name of the Survey tehsil:

Section 2

- 1) Name of the respondent:
- 2) Address:
- 3) Contact info:
- 4) Household Annual Income (in rupees):

☐ Below 100000
☐ 100000-300000
☐ 30000-600000
☐ 600000-1800000

☐ 1800000 above
- 5) Number of children in age group (0-3 years)-
- 6) Number of women in age group (11-55 years)-
- 7) Number of members in age group (65 and above)-
- 8) Number of diapers used per day per child-
- 9) Number of sanitary napkins used per menstrual cycle per female-
- 10) Number of adult diapers used per month-
- 11) Dispose off napkins and diapers

☐ Normal Household waste
☐ segregated bins (degradable and non- degradable)

☐ Burn
☐ Flush it in toilet
☐ any other
- 12) Will you segregate napkins and diapers if needed

☐ Yes
☐ No
- 13) .Preferred choice

☐ Door to door collection
☐ Community bin
☐ any other
- 14) Do you discard (Multiple choice)

☐ Expired medicine ☐ Syringes ☐ Soiled cotton and bandage ☐ any other medical waste

15) Dispose off the above waste

☐ Normal Household waste ☐ Segregated bins (degradable and non- degradable)
☐ Burn ☐ Any other

16) Will you segregate medical waste if needed

☐ Yes ☐ No

17) Preferred choice

☐ Door to door collection ☐ Community bin ☐ any other

VI.B. Questionnaire for Hospital Validation Survey in Goa

Questionnaire survey for the validation of location and for creating a database of hospitals for the future reference

Name of the surveyor:

Name of the survey district and tehsil:

Hospital details

1. Name of the hospital:
2. Address:
3. Name of the contact person with designation(preferably the Medical superintendent):
4. Contact number:
5. E-mail id:
6. Type of the Healthcare establishment:
 - ☐ Government Hospital
 - ☐ Primary Health Center
 - ☐ Community Health Center
 - ☐ Urban Health Center
 - ☐ Government veterinary hospital
 - ☐ Private hospital
 - ☐ Private clinic
 - ☐ Pet clinics
 - ☐ Dental clinic
7. Bed strength:
8. Average occupancy:
9. Specialization:

☐ Multispecialty	☐ Eye care	
☐ Dental	☐ Maternity	☐ Pediatric
☐ Orthopedic	☐ Cardiology	☐ Neurology
☐ Nephrology	☐ Skin clinic	☐ others
10. If others, Please specify
11. GPS location of the hospital.

VI.C. Questionnaire for Hospital Waste Audit Survey

Name of the surveyor:

Name of the survey district and tehsil:

Hospital details (This session has to be uploaded in the survey software for including in the mapping GPS location)

1. Name of the hospital:
2. Type of the Healthcare establishment:

☐ Government Hospital	☐ Primary Health Center
☐ Community Health Center	☐ Urban Health Center
☐ Private hospital	☐ Private clinic
☐ Pet clinics	☐ Veterinary
☐ Private dental clinic	
3. Specialization:

☐ Multispecialty	☐ Eye care	
☐ Dental	☐ Maternity	☐ Pediatric
☐ Orthopedic	☐ Cardiology	☐ Neurology
☐ Nephrology	☐ Skin clinic	☐ others
4. If others, Please specify
5. Address:
6. Name of the contact person (Preferably the Medical superintendent):
7. Contact number and designation:
8. E-mail id:
9. Bed strength:
10. Average occupancy:
11. Does the hospital segregate the biomedical waste into yellow, red, blue and white color coded bins?

☐ Yes	☐ No
------------------------------	-----------------------------
12. If yes, please mention the quantity of waste generated in each category either in Kg/bed or gram/bed?
13. Upload the photo of the hospital.
14. Upload the photo of the biomedical waste bins in the hospital.
15. GPS location of the hospital.

General Information

1. Strength of the hospital staff

Contractual:	
Permanent:	

Awareness on Biomedical waste management

2. Are you aware of Biomedical Waste Management Rules, 2016?

☐ Yes☐ No

Note: Check whether the staff is aware of segregation of BMW according to the color codes (yellow- infectious waste, red- plastic waste, white puncture proof container- for metal sharps and blue-glass waste). And also importance and need of wearing gloves mask and boots while handling biomedical waste. Mandate of getting authorization from state pollution control board.

3. If yes, is it been implemented in the facility?

☐ Yes☐ No

4. Does the hospital conduct induction or regular training for biomedical waste management to the staff?

☐ Yes☐ No

Committee for BMW management:

5. Is there any organizational policy for Bio medical waste management in the hospital?

☐ Yes☐ No

Note: organizational policy - steps followed in the hospital to manage BMW, responsibilities assigned to the hospital staff in respect to BMW management, training schedule, record keeping, reporting formats etc in a consolidated manner. It is also called as a strategy followed by the hospital to ensure efficient waste management depending upon the capacity of the healthcare facility.

6. Is there any waste management committee for managing the BMW?

☐ Yes☐ No

Note: Allotted responsibilities to the personnel to take care of various activities in relation to biomedical waste management.

7. What are the key roles and responsibilities of the committee?

Waste Categorization:

8. Is the BMW generated, segregated according to different categories in respective colour-coded bins/bags? If yes, please mention the colour codes being followed in the hospital.

☐ Yes☐ No

Note: As per BMW Rules 2016, color coding should be yellow- infectious waste, red- plastic waste, white puncture proof container- for metal sharps and blue-glass waste.

9. What is the quantity of waste generated per day/per bed? Or what is the total quantity of waste generated in the hospital?

10. How do they dispose pharmaceutical/cytotoxic waste?

☐ Yellow color bags/containers☐ Others

11. How does the hospital dispose the municipal solid waste?

Waste Collection and Transportation (inside the hospital premises):

12. Biomedical Waste from wards/generation points are collected using

☐ Bins/ buckets

☐ Trolleys (open/ closed)

☐ Others (please specify)

13. Time schedule for waste collection, if yes mention the timings/schedule

☐ Yes

☐ No

14. Is there any storage area within the healthcare facility for storing BMW?

☐ Yes

☐ No

Waste Treatment and Disposal:

15. Is the hospital connected to the treatment facility for transport, treatment and disposal of BMW?

☐ Yes

☐ No

If Yes,

16. What is the name and location of the treatment facility?

17. What are the charges levied for transport, treatment and disposal of BMW as per any one of the following basis?

☐ Per bed

☐ Per Kg

☐ Monthly basis

☐ Other (Please Specify)

18. What is the waste collection frequency?

☐ Daily

☐ Alternate days

☐ Others (please specify)

19. Have you visited the treatment facility?

☐ Yes

☐ No

If not connected to a facility,

20. Waste treatment

☐ Onsite

☐ Offsite

21. Is the BMW generated, disinfected before onsite/offsite treatment by any of the following methods

☐ Autoclave

☐ Sodium hypochlorite

☐ Chlorine bleach

☐ If others (Please Specify)

☐ None

22. If Onsite, how is the BMW treated:

☐ Deep burial

☐ Incineration

☐ Open burning

☐ Others (please Specify)

Note: Deep burial – pit of around 2 meters in depth, where BMW is buried.

Incineration – BMW is burned at a temperature 1100 °C, in closed system with stack for emission gas.

Open burning – BMW is burnt in open space.

23. If offsite, how the BMW is disposed

☐ Landfill

☐ BMW dumpsite in the nearby locality

☐ Open burning

☐ Disposed along with Municipal Solid Waste

☐ Others (Please Specify)

Occupational Safety

24. Does the hospital have needle cutters/destroyers for mutilating the needle tip of the syringe?

☐ Yes

☐ No

25. If yes, what type of needle cutter do they use?

☐ Electric

☐ Manual

26. Is the hospital using any of the following mercury free instruments?

☐ Digital thermometers

☐ Digital/ Aneroid BP instruments

☐ None

27. Are the hospital staffs immunized for infection like one of the following?

☐ Hepatitis B

☐ Tetanus

☐ none

28. Does the hospital provide any of the following PPE (Personnel Protective Equipment) to the waste handling staff?

☐ Gloves

☐ Mask

☐ Boots

☐ Head Cap

29. In case of needle stick injury (NSI) or any accident, is the staff suppose to report the event to the administration?

☐ Yes

☐ No

30. Does the hospital have an Injection safety policy for taking preventive treatments after NSI/ accident?

☐ Yes

☐ No

Record maintenance:

31. Does the hospital maintain record of any of the following?

☐ Record on quantity of BMW generated

☐ Training record

☐ Accident record

☐ Amount of waste treated

(onsite/offsite)

☐ Annual report

Note: training record – schedule and details of the training conducted on biomedical waste to the hospital staff

Accident record - Record on accidents while handling biomedical waste. (mostly NSI)

Annual report – Report regarding biomedical waste management, which need to be submitter every year to pollution control board.

Infrastructure/ other resources:

32. Does the hospital have the following infrastructure in sufficient for managing biomedical waste as per the BMW Rules, 2016?

- | | |
|--|--|
| ☐ Bags | ☐ Bins |
| ☐ Trolleys | ☐ incinerator (working condition) |
| ☐ Deep Burial | ☐ Autoclave |
| ☐ Puncture proof sharp containers | |
| ☐ PPE (gloves, masks, aprons and boots) | |

33. Does the hospital have any issue which leads to the mismanagement of BMW?

- | | |
|---|----------------------------------|
| ☐ Man power | ☐ Funding |
| ☐ Difficulties with finding vendor for procuring the infrastructure for waste management | |

Note: kindly mention the reasons, if it is any apart from the above stated.

Observation Based Data

34. Do you find waste overflow in any of waste bins kept for BMW?

- | | |
|------------------------------|-----------------------------|
| ☐ Yes | ☐ No |
|------------------------------|-----------------------------|

35. Storage area specifications

- | |
|---|
| ☐ Lockable room |
| ☐ Different compartments for storing various categories of BMW |
| ☐ Clean |
| ☐ Spillage |
| ☐ Unclean |

36. Is the BMW generated, is segregated according to different categories in respective colour-coded bins/bags? If yes, please mention the colour codes being followed in the hospital.

- | | |
|------------------------------|-----------------------------|
| ☐ Yes | ☐ No |
|------------------------------|-----------------------------|

37. Did you find cleaning staff wearing gloves, masks and head caps while handling biomedical waste?

- | | |
|------------------------------|-----------------------------|
| ☐ Yes | ☐ No |
|------------------------------|-----------------------------|

38. Does the hospital have needle cutters/destroyers for mutilating the needle tip of the syringe?

- | | |
|------------------------------|-----------------------------|
| ☐ Yes | ☐ No |
|------------------------------|-----------------------------|

39. Does the hospital have poster and materials displayed relation to BMW in the premises?

- | | |
|------------------------------|-----------------------------|
| ☐ Yes | ☐ No |
|------------------------------|-----------------------------|

40. How does the hospital dispose the municipal solid waste?

Interaction with the hospital staff (nurses/ward boys/cleaning staff) – min 5 persons

41. Are you aware of Biomedical Waste Management Rules, 2016?

☐ Yes

☐ No

42. Are you aware of segregation of biomedical waste? If yes please mention the color codes being followed in the hospital

☐ Yes

☐ No

43. Are you aware about the hazards of biomedical waste? If yes please note the statement

☐ Yes

☐ No

44. In case of needle stick injury (NSI) or any accident, is the staff suppose to report the event to the administration?

☐ Yes

☐ No

45. Have you attended induction or regular training in regard to medical waste management?

☐ Yes

☐ No

46. How does the hospital dispose the municipal solid waste?

47. Have you got needle stick injury while handling biomedical waste or any accident while handling medical waste?

☐ Yes

☐ No

Comments:

VI.D. Questionnaire for Pharmaceutical Survey to estimate BMW generated from pharmacies in Goa

Questionnaire for the survey in pharmaceuticals for estimating the generation of bio-medical waste and their disposal practices

1. Name of the surveyor:

2. Name of the survey district & tehsil (tulak):

3. Name of the pharmacy:

4. Address:

5. Quantity of drugs that expire or go waste annually (Kg):

6. Are you aware of Biomedical Waste Management Rules, 2016 ?

☐ Yes

☐ No

7. How do you manage expired drugs?

- ☐ Discard in municipal waste
- ☐ Keep in inventory
- ☐ Give it back to the distributor
- ☐ Any other

8. Is there any other medical waste that you generate?

- ☐ Yes ☐ No

9. GPS location of the pharmacy

VI.E. Detailed Bio-medical waste management situation report of HCFs in Goa

1. HCF visited: Sub-District Hospital Ponda

Date of Visit: June 19, 2018

SDH Ponda is a sub-district hospital with bed strength of 174. It is a multispecialty hospital with average occupancy of 40%. The hospital has the authorization from Goa State Pollution Control Board, and currently follows biomedical waste segregation as per the 2016 Rules. The hospital also has a non bedded PHC attached with it.

Committee for biomedical waste management: There is no separate BMW committee or policy in the hospital but a nodal person is designated who looks after the BMW management in each ward.

Infrastructure for managing biomedical waste: Adequate numbers of color coded bins were available but there was a shortage of color coded plastic bags. A separate dialysis ward was also operated on an outsourced contractual basis.

Segregation practices: The staff was found to be aware of the BMW Rules but segregation at some places was found to be faulty. Infectious waste was segregated in two bins. One bin was for cotton and bandages while the other one was used only



Image 1: Different segregation pattern

for anatomical waste. The segregation practices were not up to mark in that ward. Use of needle cutter was not very prominent and the staffs were seen to be separating glass waste into two categories. There were no mercury instruments in use.

Waste collection and transportation (intramural): It was done manually by the MTS (multi-tasking service) workers. There was no trolley found despite the claim of hospital staff. MTS workers were aware of the new BMW Rules but the use of PPE wasn't observed. Waste was collected twice daily, morning 8.00 am, evening 8.00 pm, as and when needed.

Waste storage (in-house): Storage room was not as per the guidelines and had open access. The waste was found to be scattered all over the place as the plastic bags were open. Glass waste (ampoules and vials) were stored there in open cardboard boxes for quite a long time. Encapsulated sharp pit was absent. Plastic waste was also lying in open and accessible to all.



Image 2: Open Storage Room

On-site treatment of biomedical waste: Autoclave was found to be non-functional. The hospital staff was using 5% sodium hypochlorite solution for solid and liquid infectious waste. Anatomical waste was seen to be dumped in open pit (called as deep burial pit). The pit used for dumping the sharps (needles and broken glass vials) was also open (contraindicated in the Rules). Both the pits were open and accessible to the public which created a nuisance in the



Image 3: Open Deep Burial Pit



Image 4: Glass Waste Storage

Campus.

Collection and transportation of BMW (extramural): No in-house management is carried out. The plastic waste was found to be handed over to SAI ARYA.

Record maintenance: Record maintenance was apt. Annual report, contract details and authorization from PCB was showed on demand. Even the immunization records of the staffs were kept.

Occupational safety: Staff nurses were oblivious to the use of PPE. The multitasking service workers were given PPE but were not using it. Needle burners were present but seldom used.

Awareness on BMW Rules, 2016: The staff had fair knowledge about it.

Training in regard to biomedical waste: Trainings on the new BMW Rules had started recently.

2. HCF visited: CHC Chichalim (Cottage Hospital)

Date of Visit: June 19, 2018

CHC Chichalim is a 60 bedded hospital with only 38 beds operational. It has occupancy of 100% and currently follows biomedical waste segregation as per the old Rules. General OPD and Gynec services are provided here.

Committee for biomedical waste management: There is an infection control committee which looks after BMW. There is no separate policy as well. There is one nurse designated to look after the biomedical waste management.

Infrastructure for managing biomedical waste: The hospital had enough number of bins but the color coded plastic bags were not as per the new BMW Rules. Mostly red color bags were used for all kinds of waste.

Segregation practices: Nurses and other



Image 5: Red Bags for all Waste Categories

staffs were not trained of the BMW management. Infectious waste, sharp waste and Plastic waste is segregated but not following any of the rule provisions. . In the lab there was no biomedical waste management observed. Mercury instruments were still in use and in dental department on an average one amalgam filling per month was done. Dental biomedical waste management was proper and as per the new Rules but was getting mixed with other ward waste during the time of waste collection. The staffs were not trained for blood spill or mercury spill and the overall hygiene of the hospital was poor.

Waste collection and transportation (intramural): Waste was collected and transported manually by the nurses and housekeeping staff in rotation as and when needed (no fixed timing or schedule).

Waste storage (in-house): The storage room was present in the backyard of the hospital with no walls and no shed. A lot of waste was found to be scattered and mixed with the municipal waste.

On-site treatment of biomedical waste: Autoclave was non-functional and there was severe mixing of all kinds of medical waste with municipal waste. Dressing material waste was said to be given to the municipality after disinfection with 5% hypochlorite solution. Infectious waste and sharp waste (glass vials, ampoules and syringes) were dumped in cemented pits which had very wide opening slot and was accessible to all.



Image 6: Open Encapsulated Pit



Image 7: Open Deep Burial Pit

Collection and transportation of BMW (extramural): No regular collection by municipality and unauthorized dealer leading to piling up of waste. Plastic waste was given to unauthorized dealers and some of it was given to the municipality.

Record maintenance: Records were maintained as per the old BMWRules.

Occupational safety: There was no use of PPE observed in any ward. No use of needle burners as well.

Awareness on BMWRules, 2016: The staff had no knowledge about the new BMWRules and old Rules were also not followed aptly.

Training in regard to biomedical waste: No training was conducted for BMW. Only at the time of induction one training was given about overall department maintenance.

3. Manipal Hospital

Date of Visit: June 21, 2018

It is a multispecialty hospital with bed strength of 280. Although the operational beds are only 130 with an occupancy rate of 80%. The hospital has authorization from Goa State Pollution Control Board, and currently follows biomedical waste segregation as per the 2016 Rules.

Committee for biomedical waste management: There is a committee in place for looking after the biomedical waste management in the hospital.

Infrastructure for managing biomedical waste: It was present in all the wards. Color coded bins and bags were provided in surplus amount in each ward. Needle cutters were also present at each nursing station.

Segregation practices: The overall hygiene of the hospital was very good. The hospital was following the new BMWRules and the segregation was up to the mark in all the wards. There were no mercury instruments found in the hospital and the dental department also did not contain any dental amalgam filling material. The awareness of the dental staff about the BMWRules was minimal.



Image 8: Segregation Practice



Image 9: Ward wise Storage with IEC Display

Waste collection and transportation (intramural): Waste was collected twice, daily in two schedules, viz., morning 08.00 am and evening 08.00 pm as well as whenever required by using trolley which was washed on daily basis and the workers handling the trolley were given extra rubber gloves for protection.

Waste storage (in-house): The storage room was present behind the hospital and was in proper condition. It was clean, had locks, easily accessible for GHMS waste collectors.

On-site treatment of biomedical waste: The autoclave was functional. Waste from other nearby hospitals was also getting autoclaved at Manipal hospital. Autoclaved waste was also getting segregated and the put into respective pits. The deep burial pit and encapsulated sharp pits were in proper condition. ETP was also in proper working condition.



Image 11: Effluent Treatment Plant



Image 10: Waste Segregation after Autoclaving

Collection and transportation of BMW (extramural): GHMS collects waste from the hospital in properly labeled, GPS enabled and clean vehicle with biohazard markings clearly visible to the naked eyes.

Record maintenance: All the records were properly maintained.

Occupational safety: The staffs knew about the PPE and were seen in full attire which included gloves, mask, boots (only for waste collecting staff), and rubber gloves for the waste separator.



Image 12:GPS enabled vehicle for waste collection

Awareness on BMW Rules, 2016: Up to the mark.

Training in regard to biomedical waste: Regular trainings were conducted for all nursing and housekeeping staffs. All the staffs including the housekeeping were given regular training on BMW and IEC materials were properly displayed.

4. HCF visited: Government Medical College:

Date of Visit: June 21&22, 2018

It is a multi-specialty government hospital with bed strength of 1235 and has 100% occupancy. The Hospital has an incinerator of its own and is operational. The hospital also has an autoclave, a hydroclave and a plasma pyrolysis unit. The pyrolysis unit is non-functional since 2004. Yellow category waste from nearby hospitals gets collected by GHMS and is brought to GMC for incineration. We were not allowed to take any photographs as per the orders from Dr. ShivanandBandekar.

Committee for biomedical waste management: There is no committee in the hospital to look after BMW management.

Infrastructure for managing biomedical waste: Bins were present in the wards but not color coded as per the new Rules. Bags were also present in some of the wards only. There was no trolley present in the hospital.

Segregation practices: Segregation practices were found to be poor and there was a lot of mixing of BMW categories. The IEC material was displayed but with incorrect information about the segregation categories. The staff nurses were oblivious to the new BMWRules and there was no use of PPE observed.

Waste collection and transportation (intramural): It was done manually by the housekeeping staff and the nurses three times a day as and when needed.

Waste storage (in-house): There was no storage area in the hospital and the waste was directly transferred to the waste management site behind the hospital premises.

Onsite treatment of biomedical waste: Incinerator with a capacity of 70kg/hour was in functional condition. It is 10years old and has not been upgraded. As per the recent arrangement with GHMS, the hospital was only bearing the diesel cost for running the incinerator and rest was taken care by GHMS. New autoclave has been sanctioned. The hydroclave was in functional condition as well and has the capacity of 150kg/hour and runs 10 cycles a day. It treats only red and blue category waste and shreds it by the end of the cycle. The waste thus left behind after the treatment in hydroclave is being dumped in an open deep pit present behind the hospital premises.

Collection and transportation of BMW (extramural): GHMS is responsible for collecting the waste generated in the hospital and transfer it to the treatment site.

Record maintenance: No records were found, not even the annual report. The staffs were reluctant to show any kind of paper work despite the orders from GWMC.

Occupational safety: The staff members were not trained for the use of PPE. Although there were PPE stock lying in the nursing station but they were seldom using it.

Awareness on BMWRules, 2016: The staff did not have much knowledge about BMWRules and were mixing all kinds of waste.

Training in regard to biomedical waste: Trainings on new BMWRules were started by GHMS staff a few days back and there were no records of any other training.

5. Goa Dental College:

Date of Visit: June 21, 2018

It is a dental college with annual intake of 40 BDS students and 15 MDS students. There are a total of 95 functional dental chairs including the ones in the dental OPD. The average patient flow ranged from 85 to 150.

Committee for biomedical waste management: There is a committee for BMW management in the hospital and has members from Community Dentistry department, staff nurses in hospital and an engineer. It also conducts lectures regarding biomedical waste management for students and staff members.

Infrastructure for managing biomedical waste: Color coded bag and bins were placed in each ward along with the needle cutters. In some places needle burner was used. A trolley was used for collecting the waste and transferring it to the storage area.

Segregation practices: The staffs and the students were segregating the waste as per the new BMWRules. This was due to the intervention by GHMS. IEC materials were displayed at the point of segregation which aided in correct categorization.

Waste collection and transportation (intramural): Waste was collected once a day between at around 03.00 pm and as and when needed using a trolley.

Waste storage (in-house): The waste storage area was quite big, neat, clean, closed, lockable, behind the college premises, not accessible to general public.

On-site treatment of biomedical waste: All the biomedical waste generated was collected and transferred to storage area and from there collected by the GHMS and carried to GMC for management. Solid waste management was also done at the storage area.

Collection and transportation of BMW (extramural): Done by GHMS in their vehicle once a day at around 12.00 pm and transferred to GMC premises for treatment.

Record maintenance: Records were aptly maintained about the waste generated on a daily basis. There were records of sodium hypochlorite solutions treatment being carried out as well but no annual report was available.

Occupational safety: The students and the doctors were seen wearing the PPE at the time of segregation of waste. The housekeeping staff was not available at the time of the visit but the workers who transferred the waste from wards to storage area wore proper PPE which included gloves, mask, boots etc.

Awareness on BMWRules, 2016: The staffs were not well versed with the new BMWRules 2016 but the segregation was done correctly due to the display of IEC material.

Training in regard to biomedical waste: Lectures are conducted for students in their academic sessions regarding BMW management. No separate training for the staff members.

6. Galaxy hospital:

Date of Visit: June 23, 2018

It is a private multi-specialty hospital with bed strength of 44 and has occupancy of 60-80%. The hospital has an authorization from Goa State Pollution Control Board, and currently follows biomedical waste segregation as per the 1998 BMWRules. It was established in 2012.

Committee for biomedical waste management: There is no committee for BMW management. The nursing superintendent is assigned as the nodal person for BMW management.

Infrastructure for managing biomedical waste: Color coded bins were present in almost all the wards but color coded bags were present in only a few. Needle burner was also not present at all the nursing stations. There was a trolley present but wasn't used much.

Segregation practices: Segregation was being carried out as per the old BMW 1998 Rules and yet a lot of mixing was observed. The staff had little knowledge about the new Rules and no training was conducted for nursing staff and housekeeping staff regarding the BMWRules. The housekeeping staff was permanent staff and not outsourced. Recapping was very prominent in practice as the needles were burned only at the end of the day by collecting all of

them together. General waste was completely segregated and dealt with separately. All categories of waste generated in lab was put together in one bag and sent to the central lab for treatment. No IEC were displayed at nursing stations. All the waste was put into black color plastic bags and no color coded bins were used.



Image 13: Incorrect Segregation Practices

Waste collection and transportation (intramural): Waste was collected and transferred manually once a day between 04.00 to 05.00 pm and as and when needed.

Waste storage (in house): Storage room was present in the basement and had open access. It had a weighing scale as well. Few people were seen handling the waste bare-handed.

On-site treatment of biomedical waste: The hospital had 3 autoclaves. All red and blue category wastes are autoclaved and handed over to **Enviro Services**. Except for anatomical waste, all the other yellow category waste was also autoclaved and then put into municipal waste. They had deep burial pit and encapsulated sharp pit maintained as per the BMW Rules and were in hygienic condition with minimal access. They use 10% sodium hypochlorite solution for all their liquid waste management.



Image 14: Covered Deep Burial Pit



Image 15: Encapsulated Sharp Pit

Collection and transportation of BMW (extramural): There was no extramural transportation as most of the waste was managed in-house itself. An agency called, Enviro Services collects the autoclaved red category waste once in 2 to 3 days.

Record maintenance: Annual report, daily waste generation record and autoclave cycle records were in place but there were no records of vaccination of staff members, trainings of staff members.



Image 16: Displayed IEC Material

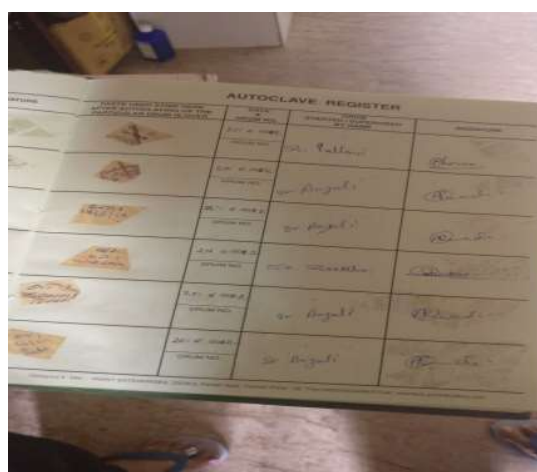


Image 17: Autoclave Record

Occupational safety: The use of PPE was not seen in any of the staff members even though it has been provided by the hospital.

Awareness on Biomedical Waste Management Rules, 2016: Minimal awareness was observed amongst the staff members.

Training with regard to biomedical waste: No training was conducted for nursing staff or housekeeping staff.

7. PHC Aldona:

Date of Visit: June 23, 2018

It is a 12-bedded primary healthcare centre with an average occupancy of 10%. It has 6 sub centres attached to it. There is also a district hospital named Azido at a distance of 5km. The

PHC has authorization from Goa State Pollution Control Board, and currently follows biomedical waste segregation as per the 2016 BMW Rules.

Committee for biomedical waste management: There is Infection control committee which looks after biomedical waste management component along with other component like hospital acquired infections, OPD management etc. This committee holds meetings every second month to look into the matters and resolve them. As and when required trainings are also conducted.

Infrastructure for managing biomedical waste: Color coded bins and bags were in place in each ward except for general OPD where no plastic bag was seen in bins. There were no trolleys as well to carry waste.

Segregation practices: The segregation practices were good in wards and were as per 2016 BMW Rules. IEC material was also displayed. There was mixing of waste observed in the general OPD. The housekeeping staff is outsourced and given training along with PPE. The dental OPD also had color coded bins and bags. No dental amalgam filling is being done since 1.5 years. As informed the waste was being carried in trolley from wards to the storage room, but on observation, no trolley was seen. The overall hygiene of the hospital was good and no expired medicines were kept in the hospital pharmacy and IEC material was displayed at the site of biomedical waste generation in different wards. A need for training of BMW management amongst the staff members was felt in the hospital.

Waste collection and transportation (intramural): The waste collection from wards and OPDs was done manually in absence of a trolley once a day (no fixed timing for the same). The grade 4 workers wore PPE and collected waste from wards in a bigger bin and then it was taken to the storage room.

Waste storage (in house): The storage room was nearly 50 m away from the main building and was shabbily maintained. It was an open room with lockable doors and the red, yellow and blue plastic bags were lying untied on the floor. There was



Image 18: Waste Storage Room

general waste lying outside the storage room as well.

On-site treatment of biomedical waste: The PHC had 2 functional autoclaves. All the red category waste is autoclaved. The anatomical waste alone is put in the deep burial pit. As the PHC doesn't conduct many deliveries (one in 2 years), the waste thus generated is far less. All sharp waste is put in the encapsulated pit. Both the pits were found in hygienic condition and were well maintained with limited access to anyone. Liquid waste generated in the lab was also getting treated in 10% sodium hypochlorite solution and was then discarded into the drain.



Image 20: Encapsulated Sharp Pit



Image 19: Deep Burial Pit

Collection and transportation of BMW (extramural): Waste is given to the local Panchayat along with the general paper waste. There were no records of the amount of waste that was being given to the panchayat on a daily or weekly basis. The panchayat collects all the waste free of cost. Before this arrangement, all the medical waste from the PHC was being given to the local agency called "NirmalVishwa", free of cost. The panchayat vehicle comes and collects the waste. The waste is carried manually to the vehicle.

Record maintenance: Annual report records and daily waste generation records were present and up to date. There was no record of training of staff members. There were no immunization records as well.

Occupational safety: The staff members handling waste were seen wearing PPE (gloves and mask)

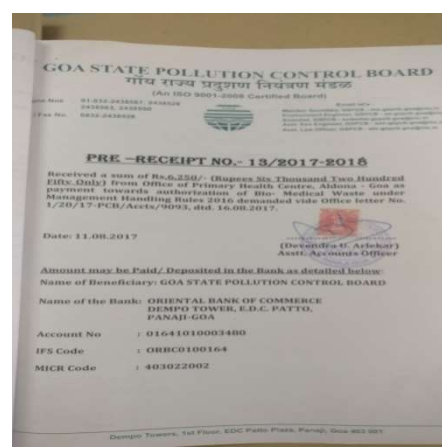


Image 21: Annual Authorisation Record

except for the staff nurse in the general OPD. Grade 4 waste handlers were seen using boots as well.

Awareness on BMW Rules, 2016: Staff members were aware regarding the new Rules and were carrying out segregation accordingly.

Training in regard to biomedical waste: Training was given to staff members once in every 6 months. A felt need for training was felt amongst other members.

8. JMJ Hospital:

Date of Visit: June 23, 2018.

It is a 25 bedded private hospital which provides Obstetrics and Gynecology Services. It has an average occupancy of 90%. The hospital has authorization from Goa State Pollution Control Board.

Committee for biomedical waste management: There was no BMW Management Committee, no ICC committee and no Quality Assurance Committee. There is only one nodal person who is a grade 4 worker, a permanent staff in hospital who looks after the biomedical waste management from collection to transfer to the storage room.

Infrastructure for managing biomedical waste: The hospital has color coded bins and bags. It also had a trolley for transferring the waste. Needle cutters were also present.

Segregation practices: The hospital doesn't follow BMW Rules of 1998 nor 2016 but has its own segregation system. The various categories are as follows:

- 1) Gloves
- 2) Glass bottles
- 3) IV sets and tubing.
- 4) Dressing material
- 5) Plastic and papers
- 6) Anatomical waste



Image 22: Different Pattern of Segregation

7) Needles

For all the bins, black plastic bags were used. This pattern was seen throughout the hospital, even in the lab. The staff members also followed this kind of segregation and IEC material was also displayed with categorization only. Needle cutters were also in place and in regular use.

Waste collection and transportation (intramural): Waste is collected manually by the grade 4 worker with the help of nurses in the respective wards as and when needed. Trolley is used.

Waste storage (in-house): There was a storage room present in the backyard of hospital. It had a wall on one side; the other 3 sides were covered with metallic grills with plastic covering. It had no roof. It had 3 bins that were empty and had black plastic bag lining. It also had a functional autoclave for disinfecting the waste collected. IEC material was



Image 23: Storage Room with no roof

On-site treatment of biomedical waste: Anatomical waste was transferred to the deep burial pit right after every delivery. Other yellow category waste was autoclaved and put into the general waste. Red category waste is autoclaved. Sharp waste was transferred to the encapsulated pit in the backyard of the hospital. Liquid waste was discarded into the drain after treatment with 10% sodium hypochlorite solution. It also has a 50kg capacity incinerator which they use occasionally for burning paper waste. The hospital also has 3 autoclave out of which 2 are functional. One is used for the hospital waste while other is used for sterilization of instruments. It has 5 shredders which are used for shredding the plastic waste before being given to scrap dealer.

Collection and transportation of BMW (extramural): There was not much of extramural transportation as most of the waste is managed in house. Shredded and autoclaved red category waste is given to local plastic dealers.

Record maintenance: There were annual report records and authorization records alone. Rest of the records was not available due to the absence of the authorized person. There were no training records or immunization status records of the staff members, but they verbally knew the vaccine status of all workers.

Occupational safety: The staff members were seen wearing gloves and masks while handling the BMW.

Awareness on Biomedical Waste Management Rules, 2016: The hospital follows its own classification as mentioned above. They did not know much about the new Rules except for the laboratory staff.

Training in regard to biomedical waste: No formal training is conducted, and the staff members are given a briefing on waste segregation as and when needed.

9. SMRC Hospital:

Date of Visit: June 25, 2018

It is a multispecialty hospital with bed strength of 86 and average occupancy of 40%. On visit the hospital's administrative staff was not very co-operative and did not allow any kind of document verification. Our team could not conduct the rounds in the wards as all the staff members were busy for another pending inspection preparation. We were not allowed to take the pictures of the documents as well. The medical superintendent designated Dr. Priya for providing the information regarding the hospital. All the information was verbally provided.

Committee for biomedical waste management: As informed, there is a BMW management committee in the hospital. No documentation was shared.

Infrastructure for managing biomedical waste: The hospital had color coded bins and bags, but needle cutters were not seen. No trolley was seen either.

Segregation practices: As observed, the segregation practices were poor and there was a lot of mixing of BMW waste. The staff



Image 24: IEC Material Displayed of Old BMW Rule

members also had less knowledge about the new BMWRules.

Waste collection and transportation (intramural): No information provided

Waste storage (in-house): As informed, there was a waste storage room in the backyard of the hospital. On visit, it was observed to be flooded with glass waste cartons. It had 3 lockable rooms and one open space with tin shed which housed a few drums. These drums had used gloves and other kind of waste material.



Image 25:Storage Room with Unmanaged Waste and Open Access

On-site treatment of biomedical waste: On inquiring with the staff members, they informed that 5-20 % sodium hypochlorite is used for disinfecting the needles and rest is handed over to GHMS.

Collection and transportation of BMW (extramural): It was informed to us that the waste gets collected everyday by GHMS between 11.00 am to 02.00 pm.

Record maintenance: No access. Waste generation records shown by Dr.Priya had only 3 categories, red, yellow and blue. There was no white category record maintained.

Occupational safety: The staff members were seen using gloves.

Awareness on BMWRules, 2016: No access.

Training in regard to biomedical waste: No access

Comments or inference: The information provided and the waste quantification needs to be redone with proper access to the hospital records and the premises.

10. Tuppad's Dental clinic:

Date of Visit: June 25, 2018

It is a single chair dental clinic. There was one full time dentist and 4 visiting dentists on consultation. There was one dental assistant and one receptionist as well.

Committee for biomedical waste management: Not applicable

Infrastructure for managing biomedical waste: The clinic had 2 bins red and yellow which were empty at the time of visit. There was also a needle cutter and paper cup which had 7 used needles.

Segregation practices: The clinic generated mostly gloves, syringes and a few blood soaked cotton. Segregation is not carried out properly and does not follow BMW 2016 Rule.

Waste collection and transportation (intramural): Not applicable

Waste storage (in-house): Not applicable

On-site treatment of biomedical waste: Autoclave was present, but it was used only for the sterilization of dental instruments.

Collection and transportation of BMW (extramural): The waste was getting collected by "SARAH" (a private company). Frequency of waste collection was 2-3 times a month on an average. The charges were INR 600/- month.

Record maintenance: No records were maintained.

Occupational safety: PPE were given to the staff members handling the patient treatment. It included gloves, mask and a head cap.

Awareness on BMWM Rules, 2016: It was found to be lacking.

Training in regard to biomedical waste: None.

Comments or inference: The dental clinic staff was very receptive to the brief description given about the new BMWM Rules, 2016. They also agreed to do the weighing and keep records.

11. Sidad's Pathology Laboratory, Vasco Da Gama:

Date of Visit: June 25, 2018

It is a 5 years old laboratory which carries out all hematological investigations, pathology tests, and Diagnostic Services. At the time of the visit, there were no bins and biomedical waste seen. The staff in charge verbally gave some information but no document verification could be done.

Committee for biomedical waste management: Not applicable

Infrastructure for managing biomedical waste: As informed there were color coded bins and bags for segregating the biomedical waste. Needle burners were present.

Segregation practices: As informed, the lab staff segregates the waste as per new BMW Rules, 2016. There were no IEC displayed.

Waste collection and transportation (intramural): Not applicable

Waste storage (in-house): Not applicable

On-site treatment of biomedical waste: Before discarding biological samples, they were treated with 10% sodium hypochlorite solution.

Collection and transportation of BMW (extramural): The waste generated is then collected by GHMS. Frequency of collection is thrice a week at a cost of INR 900 per month. The staff members also informed that the biomedical waste used to be collected by local municipality.

Record maintenance: None

Occupational safety: Staff members had gloves

Awareness on BMW Rules, 2016: None

Training in regard to biomedical waste: None

Comments or inference: Need of capacity building and training for the new BMW Rules, 2016.

12. Healthway Hospital: Old Panjim

Date of Visit: June 25, 2018

It is a 40 bedded multispecialty hospital with average occupancy of 70-80%. There is only one nodal person who looks after the biomedical waste management in the hospital. Dr. Priya is the medical superintendent who is in charge for this. There were no records maintained and the official documents were not shared. They verbally informed that they have SPCB authorization but no annual report was shared.

Committee for biomedical waste management: There is no committee in the hospital for BMW management. ICC is there which takes care of the BMW component. There was no policy as well.

Infrastructure for managing biomedical waste: The hospital had color coded bins but plastic bags were mostly of red color. Needle cutters and burners were present only in few of the wards. There was no trolley seen in the hospital premises.

Segregation practices: They were following a different segregation pattern, not pertaining to any rule. The IEC material was also displayed with this new categorization. There was also a lot of mixing of waste was observed. The categorization was as follows:

a) **Yellow waste:** Pop casts, gauze, bandages, head cap, drape, masks, plaster cast, placenta, discarded medicine.

b) **Blue waste:** needles, glass items, scalpel, urine bag, cannulas, blood bag, blades, IV sets.

c) **Red waste:** gloves, catheters, glass slides, test tubes, ampoules, plastic syringes.

d) **Black:** general waste which included sanitary pads and diapers.



Image 26: Incorrect Categorisation of Waste

The hospital had mercury apparatus and mercury spill kit as well. The staff also informed that there are fewer thermometer breakages happening in the ward and they are trained for mercury spill management. They also had a blood spill kit in place.

Waste collection and transportation (intramural): Collected manually by hands and when needed.

Waste storage (in-house): There was no waste storage room. The waste was getting collected in one drum that was put right outside the hospital entrance, which was taken away by GHMS every morning at 8:00am. Mixing of waste was observed even in the drum as the plastic bags were partially open and not tied properly.

On-site treatment of biomedical waste: The liquid waste was treated with 30-50% sodium hypochlorite and discarded in the drain. Rest all waste was given to the GHMS as such. There was no weighing scale and no records were kept of the quantity of waste being handed over to GHMS.

Collection and transportation of BMW (extramural): The waste was collected from the entrance of the hospital by GHMS vehicle daily at 08.00 am.

Record maintenance: None.

Occupational safety: Staff members were seen wearing gloves alone while handling the waste.

Awareness on BMWM Rules, 2016: Nil

Training in regard to biomedical waste: There were no training conducted for the staff members for BMW management.

Comments or inference: The hospital staff and the superintendent have been informed regarding the new BMWM Rules and were asked to weigh the biomedical waste and maintain records so that it can be evaluated at a later stage.

13. Trinity Health Care & Medical Research

Date of Visit: 18th June 2018 and 26th June 2018

It is a hospital with bed strength of 17 and average occupancy of 30%. It is a multi-specialty hospital with majorly focusing on Obstetrics & Gynaecology, Paediatrics & Neonatology, Orthopaedics and General Medicine. When the Toxics Link team reached the hospital, concerned authority was busy in Operation Theatre and the nodal person, Mr. Umesh gave us all the information verbally.

Committee for biomedical waste management: No information was provided.

Infrastructure for managing biomedical waste: The hospital had bins and plastic bags but not all of them were color coded. No needle cutters were present.

Segregation practices: -No information was provided.

Waste collection and transportation (intramural): No information was provided.

Waste storage (in-house): No information was provided.

Onsite treatment of biomedical waste: No information was provided.

Collection and transportation of BMW (extramural): No information was provided.

Record maintenance: No information was provided.

Occupational safety: No information was provided.

Awareness on BMWM Rules, 2016: The staff had little awareness about 1998 BMWM Rules.

Training in regard to biomedical waste: Once in 3 months training is conducted.

14. HCF visited: Ghanshyam Hospital:

Date of visit: June 26, 2018

It is a maternity hospital with bed strength of 18. It has average occupancy of 2. During the visit, no concerned authority were present and all the information was provided verbally by a nurse at the reception.

Committee for biomedical waste management: No information was available

Infrastructure for managing biomedical waste: The hospital had bins and plastic bags, but they were not color coded. Trolleys were not observed during the visit.

Segregation practices: They segregate waste into red, yellow, blue and white category.

Waste collection and transportation (intramural): No information was provided.

Waste storage (in-house): No information was provided.

On-site treatment of biomedical waste: They have a functional autoclave. Neither the access nor any information was provided on the deep burial pit or sharp pit. Sodium hypochlorite solution was being used.

Collection and transportation of BMW (extramural): Collection of waste is done by GHMS. But they don't collect the glass waste. Also plastic bags are not provided. Earlier, municipality used to collect all the waste.

Record maintenance: There were no records present at the time of visit.

Occupational safety: No information was provided.

Training in regard to biomedical waste: No information was provided.

15. Healthway Hospital, Kadamba:

Date of Visit: June 18, 2018.

Healthway hospital is a 150 bedded multispecialty private hospital with 60 beds in operation with average occupancy of 34%. The hospital has authorization from Goa State Pollution Control Board but was not shown the certification. The hospital functions in two places of Goa, one is in Panjim and the other is in Kadamba Plateau.

Committee for biomedical waste management: Healthway hospital has the hospital infection control policy under which biomedical waste is also a constituent. The hospital does not have a designated nodal person assigned for managing the activities related to biomedical waste.

Infrastructure for managing biomedical waste: The hospital had the necessary infrastructure for managing the biomedical waste except needle cutters.

Segregation practices: Segregation of biomedical waste is not being followed as per BMW Rules, 2016. Though the color coded bins were kept in each ward, they were not having the color coded bags respective to each category of biomedical waste. Except a few, most of the color-coded bins were lined with black bags, which are meant for municipal solid waste. Apart from the head nurse of the hospital, other duty nurses were not aware of biomedical waste segregation, its implications and the hazards pertaining to it.

The housekeeping of the hospital is outsourced to a private contractor, who does not know segregation.

Waste collection and transportation (intramural): The hospital was commissioned in August hence it is not operational to its full capacity, since the completion of certain wards is ongoing. Biomedical waste from the wards is collected in the morning at around 8:00 am and in the evening around 4:30pm. The hospital does not have a separate route for the transportation of biomedical waste.

Onsite treatment of biomedical waste: Presently, the hospital does not have any onsite waste treatment facility for biomedical waste. The hospital has an effluent treatment plant, which the access was not given; hence there is no much information in that regard.

Waste storage (in-house): The hospital has waste storage shed area made out of tin sheets located outside the building. The storage area did not have a concrete/tile floor. Due to the monsoons there was water logging where the biomedical waste was kept.

Collection and transportation of BMW (extramural): The biomedical waste generated in the hospital is collected by "Goa Health Monitoring Services" everyday and the general waste is collected by the municipality.

Record maintenance: The hospital does not maintain any records on the quantum of waste generated and collected. The other records like annual reports, policy on biomedical waste management, staff vaccination record and accident reporting were not shown by the HCF. During our interaction with the staff we came to know that some of the nurses were vaccinated in their previous working places and not in healthway. The ward boys and contractual sweepers were not vaccinated and also do not report the injury due to handling biomedical waste.

Occupational safety: The healthcare workers are provided with personnel protective equipments like gloves, masks and boots while handling biomedical waste.

Awareness on BMW Rules, 2016: The nursing superintendent and the nurses of the hospital were aware about the BMW Rules, 2016 as well as BMW Rules, 1998. Ward boys and housekeeping staff were not aware of handling the biomedical waste.

Training in regard to biomedical waste: The hospital does not provide training regarding the biomedical waste to the employees. While interacting with the superintendent nurse. It was informed that they have not received training from any government body regarding BMW Rules, 2016. Hence, the management is also does not have a proper strategy to manage biomedical waste in the premises.

Monitoring:

Waste generation calculation: The hospital does not have any records on the quantum biomedical waste generated.

16. Veterinary Hospital, Tonca, Panjim.

Date of Visit: June 18, 2018.

Veterinary hospital, Tonca, Panjim is a government facility which receives approximately 40 patients per day. There are five government veterinary hospitals in the State of Goa and the one in Tonca, Panjim is the major one amongst them.

Committee for biomedical waste management: The hospital does not have a biomedical waste management committee for management of biomedical waste.

Infrastructure for managing biomedical waste: The hospital functions in two units, the first one is the lab where they have color coded bins and bags. The functioning of the lab is seasonal, hence during the visit there was not much waste being generated. The hospital is located near to the lab; there were color coded bins but no bags. The hospital does not use needle cutters.

Segregation practices: The biomedical waste generated in the facility including the lab and hospital is not segregated as per Rules. Where the hospital is concerned there was only one set

of color-coded bins, where overall biomedical waste generated in the hospital is collected. Hence, the bins were overfilled with syringes and vials.

Waste collection and transportation (intramural): There is no waste collection schedule followed, once the bins are filled, it is stored in the big bin for the collection.

On-site treatment of biomedical waste: The hospital has a deep burial pit at the backyard. During the visit the pit was almost filled, it also looked that sometimes they burn the waste in order to keep dumping the biomedical waste. The hospital also dumps their biomedical waste at their backyard.

Waste storage (in-house): The veterinary hospital does not have designated waste storage area.

Collection and transportation of BMW (extramural): The waste generated by the hospital is collected by Goa Health Monitoring Services.

Record maintenance: The hospital does not maintain any records related to biomedical waste. The hospital submits annual report to the Pollution Control Board every year

Occupational safety: The hospital takes necessary occupational safety measures while treating the patients but nothing pertaining to biomedical waste management.

Awareness on BMW Rules, 2016: The healthcare staff including doctors, nurses and ward boy seemed to be aware of the implementation of BMW Rules and its implications.

Training in regard to biomedical waste: None of the staff have received any training regarding BMW Rules. Hence, this is one of the reasons for improper management of biomedical waste in the healthcare facility.

17. Hospicio hospital

Date of Visit: 19th June, 2018.

Hospicio hospital is a 226 bedded secondary care government district hospital with average occupancy of 100% and even more at times. The hospital has authorization from Goa State Pollution Control Board.

Committee for biomedical waste management: The hospital does not have a committee for biomedical waste management, but the duty is assigned to the matron as a nodal person for monitoring biomedical waste collection from the wards.

Infrastructure for managing biomedical waste: The hospital does not have the necessary infrastructure for managing the biomedical waste. Only one ward in the hospital had the pedal operated color-coded bins and rest had few bins and some did not even have a lid. Color coded bags were lacking almost in all bins except very few which had bags lined. Needle cutter was seen only in maternity ward. The hospital does not have trolleys for waste collection from wards.

Segregation practices: The hospitals biomedical waste is segregated into the following categories in different bins, which is neither as per Biomedical Waste Management Rules 1998 nor 2016.

The categorization is as follows

- Plaster casts, blood soaked cotton
- Saline bottles
- Catheter tubes, blood bags and urine bags.
- Glass vials
- Needles
- gloves



Image 27: Inappropriate Segregation

Waste collection and transportation (intramural): Biomedical waste from the wards is collected twice a day, morning and evening. There is as such no fixed schedule for waste collection as some of the wards visited seemed to have waste not collected for the past two days.

On-site treatment of biomedical waste:

Image 28: Bio-medical Waste Autoclave



Image 29: Placenta Pit

The placental waste from the hospital is treated with hypochlorite disinfectant and disposed in the placental pit. The condition of the pit was quite disturbing with maggots and offensive smell around the area.

The yellow waste generated in the hospital is autoclaved and put into the black bag and disposed along with municipal waste.

Waste storage (in-house):

The hospital has a waste storage area, but not as per BMW Rules, 2016. The autoclaved waste was stored in the autoclave room. The saline bottles and glass vials are stored in the garage.



Image 30: Storage of Autoclaved yellow bag waste

Collection and transportation of BMW (extramural):The yellow waste after autoclaving is collected by municipal waste collectors. The plastic and the glass waste are sent to the recycler called “SRI SAI INDUSTRIES” after hypochlorite disinfection.

Record maintenance:The hospital maintains ward wise data on generation of biomedical waste as well as cumulative data on annual biomedical waste generation. But the entries did not seem to be authentic as the daily waste generated in the wards seems to be the same irrespective of patient load. Apart from waste generation record the hospital does not have training records, immunization record and other records pertaining to the Rules.

Occupational safety:The healthcare workers are provided with personnel protective equipments like gloves, masks and boots while handling biomedical waste. Immunization of the healthcare workers for Hepatitis B and Tetanus is not done.

Awareness on BMW Rules, 2016:The nursing staff and the ward boys were not aware of anything regarding biomedical waste management. But the nurses and the staff were very much keen in managing the biomedical waste and looking forward to attend training if provided.

Training in regard to biomedical waste:The hospital does not provide training regarding the biomedical waste to the employees. While interacting with the nursing superintendent, it was known that they have received training from plastic recyclers just for segregating biomedical waste plastic. Hence, the management is does not have a proper strategy to manage the biomedical waste in the premises.

18. Primary Health Center, Balli:

Date of Visit: June 19, 2018.

PHC Balli is a 24 bedded primary care government hospital with average occupancy of 20% occupancy.

Committee for biomedical waste management: The hospital does not have a committee for biomedical waste management, but the head nurse is assigned as a nodal person to check the biomedical waste generation and collection from the hospital.

Infrastructure for managing biomedical waste: The hospital had color coded bins for segregating biomedical waste of different categories, but color-coded bags were limited.

Segregation practices: The hospital's biomedical waste is segregated into the following categories in different bins, which is neither as per BMW Rules, 1998 nor 2016.

The categorization is as follows

- Plaster casts, blood soaked cotton – yellow bag waste
- Saline bottles, catheter tubes, blood bags and urine bags.
- Glass vials
- Needles
- gloves



Image 31: Segregation practice

Waste collection and transportation

(intramural): Biomedical waste from the various waste generation points is collected once a day. There is as such no fixed schedule for waste collection.

On-site treatment of biomedical waste: The placental waste and yellow bag waste from the hospital is treated with hypochlorite disinfectant, autoclaved and disposed in the deep burial pit. The pit was well maintained and closed with a concrete covering. During our visit the deep burial pit was almost full and the PHC had a new pit for disposing the biomedical waste.

Sharp waste is disposed in a sharp pit which was also maintained well and well covered to prevent water entering into it.



Image 34: Deep Burial Pit



Image 33: Sharp Pit

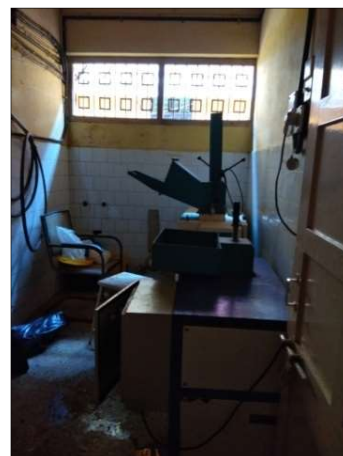


Image 32: Shredder

The biomedical waste plastic generated is shredded in house and sent to the plastic waste recycler. The hospital receives minimal revenue in selling the plastic waste just for the paper work and documentation purposes. Otherwise, he isn't willing to pay for the plastics.

Waste storage (in-house): As the hospital treats biomedical waste onsite, there is no proper storage designated for biomedical waste. Only the plastic waste is stored until it is collected.

Collection and transportation of BMW (extramural): Except the plastic waste, all the other biomedical waste is treated in house.

Record maintenance: The hospital maintains cumulative data on generation of biomedical waste. But the entries did not seem to be authentic as the waste generated everyday was found to be the same irrespective of patient load. Apart from waste generation record the hospital does not have training record, immunization record and other records pertaining to the Rules.

Occupational safety: The healthcare workers are provided with personnel protective equipments like gloves and mask. Immunization of the healthcare workers for Hepatitis B and Tetanus is not done.

Awareness on BMWRules, 2016:The nursing staff and the ward boys were not aware of anything regarding biomedical waste management. Hospital staffs were cooperative and were sharing the information to the maximum extent to their knowledge on biomedical waste.

Training in regard to biomedical waste:The hospital does not provide training regarding the biomedical waste to the employees.

VI.G. List of Public Healthcare Facilities (Hospitals,Community Health Centres,Primary Health centres,Urban Health centres) in Goa

Government Hospitals								
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID	Bed Strength	Specialization
1.	Tiswadi	North	Goa Medical College	Main Road, Opposite Goa Dental College, Bambolim	2495393	goamed@hotmail.cm	1235	Multispecialty
2.	Bardez	North	District Hospital Asilo	Near S.F.X High School,Peddem	2262211	hospicio-heal.goa@nic.in	235	Multispecialty
3.	Salcete	South	Hospicio Hospital	Near Holy Spirit Church,Pajifond, Margao, Goa	2705664	hospiciomargao@gmail.com	233	Multispecialty
4.	Ponda	North	Subdistrict Hospital Ponda	St Cruz Tisk, Mardangad, Ponda, Goa	2312114	subdistricthospital@gmail.com	174	Multispecialty
5.	Mormugao	South	Cottage Hospital(Sub District Hospital)	Main Road, Chicalim Junction, Chicalim, Goa	2540555/2540864	cottagehospitalgoa@gmail.com/cottage_heal.goa@nic.in	60	Multispecialty
Community Health Centre								
6.	Pernem	North	CHC Pernem	CHC Pernem Community Health Center, Pernem, North Goa	2291249	chcpernem-heal.goa@nic.in	40	
7.	Sattari	North	CHC Valpoi	C/O Area Hospital, Main Road, Valpoi, Goa	2374260	chcvalpoi-heal.goa@nic.in	30	
8.	Canacona	South	CHC Canacona	Community Health Center,Canacona, Goa	643422	chccanacona@gmail.com	70	
9.	Quepem	South	CHC Curchorem	Curchorem, South Goa, Goa	2650566	chccurchorem-heal.goa@nic.in	50	
Primary Health Centre								
10.	Bardez	North	PHC Aldona	Naicavaddo, Aldona, Goa 403508	2293251	phcaldona-heal.goa@gov.in /phcaldona@yahoo.co.in	15	
11.	Bardez	North	PHC	PHC Candolim	2489035	candolimphe@y	10	

			Candolim	Primary Health Center, North Goa, Goa		ahoo.in		
12.	Bardez	North	PHC Colvale	Conniwado, Colvale	9011025055	phccolavle-heal.goa@gov.in	0	
13.	Bardez	North	PHC Porvorim	Primary Health Center, E-type Government. Quarters, E-1-4 Porvorim, North Goa.	2411991	phcporvorim-heal.goa@nic.in	0	
14.	Bardez	North	PHC Siolim	Siolim Marna Rd, Iqrez Waddo, Siolim	2272250	phcsiolim-heal.goa@nic.in	10	
15.	Bicholim	North	PHC Bicholim	Near Govekar Petrol Pump Bicholim, Goa	2362050/2362041	phcbicholim2012@gmail.com	30	
16.	Bicholim	North	PHC Mayem	Waddyar, Mayem, Bicholim, Goa	2225561	mayemphc@gmail.com	15	
17.	Bicholim	North	PHC Sanquelim	Desai Nagar, Sanquelim, Goa	2364258	phcsankhail-heal.goa@nic.in	65	
18.	Pernem	North	PHC Cansarvanem	PHC Cansarvanem, Pernem, Goa	2705222	phccansarvanem@gmail.com	12	
19.	Ponda	North	PHC Marcaim	Marcaim Primary Health Center, Ponda, North Goa, Goa	2392230	phcmarcaim-heal.goa@nic.in	12	
20.	Ponda	North	PHC Shiroda	Karaimoll, Shiroda, Goa	9011025041/2307072	phcshirda-heal.goa@nic.in	24	
21.	Tiswadi	North	PHC Betki	Betki Khandola - Ponda	2287160	phcbetki-heal.goa@nic.in	12	
22.	Tiswadi	North	PHC Chimbhel	NH 4A, Ilhas, Ribandar, Goa	2458933	phcchimbhel@gmail.com	0	
23.	Tiswadi	North	PHC Corlim	Mangaddo, Corlim, Goa	2285769	phccorlim-heal.goa@nic.in	0	
24.	Mormugao	South	PHC Cansaulim	PHC Cansaulim, Primary Health Center, Mormugao, South Goa	2754436/2754036	phccansaulim-heal.goa@nic.in	0	
25.	Mormugao	South	PHC Cortalim	Cortalim Main Road, Goa	2550274	phccortalim-heal.goa@nic.in	0	
26.	Pillem, Darbandora	South	PHC Darbandora	Tisk, Usgao	2344221	phcpillem-heal.goa@nic.in	18	
27.	Quepem	South	PHC Quepem	PHC Quepem Primary Health Center, Quepem, South Goa	2662636	phcquepem@rediffmail.com	24	
28.	Salcete	South	PHC Bali	Near Bali Railway Station, Bali	2670216	phcballi-heal.goa@nic.in	22	

29.	Salcete	South	PHC Chinchinim	Behind Mount Mary Higher Secondary, Chinchinim, Salcete, Goa	2863237	phcchinchinim@gmail.com	0	
30.	Salcete	South	PHC Curtorim	PHC Curtorim, Salcete, Goa	2786206	phccurtorimabc@gmail.com	12	
31.	Salcete	South	PHC Loutolim	Loutolim, Near Big Foot Museum	2777140	phcloutolim-heal.goa@nic.in	0	
32.	Salcete	South	PHC Navelim	Primary Health Center, 2, Navelim, Salcete, South Goa	2710700	phcnavelim-heal.goa@nic.in	2	
33.	Sanguem	South	PHC Sanguem	D-Type Quater, Ground Floor, Opposite Sanguem Police Station	2604235/ 2604017	phcsanguem-heal.goa@gov.in /phcsanguem-heal.goa@nic.in /phcsanguem@rediffmail.com	5	
Urban Health Centre								
34.	Bardez	North	Mapusa Urban Health Centre	Opposite Skylark Apartments, Altinho, Mapusa	2262226	uhcmapusa@hotmail.com		
35.	Tiswadi	North	Urban Health Centre Panaji	18 June Road, Panaji Goa	2426495	uhcpanaji-heal.goa@gov.in		
36.	Salcete	South	Urban Health Centre Margao	Dwarka Building, Margao, Goa	2715004/ 2711800	uhcmargao@gmail.com/uhcmargao-heal.goa@nic.in		
37.	Mormugao	South	Urban Health Centre Vasco	Bag-Xelvona, Xelvona, Vasco Goa	2512307/ 2500606	uhcvasco@hotmail.com		
No of facilities			37	Bed strength			2427	

Other Government Hospitals

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID	Bed Strength	Specialization
1.	Tiswadi	North	T. B. & Chest Disease Hospital	Taleigao Road, Panjim, Tambdi Matti, St. Inez Goa - 403001	2242927	skchest@gmail.com	80	TB Hospital

2.	Tiswadi	North	Institute of Human Psychiatry and Human Behavior	Institute of Human Psychiatry and Human Behavior, Bambolim, Goa	2458687	dir-iphb.goa@nic.in	200	Others
3.	Tiswadi	North	Goa Dental College	Main Road, Opposite Goa Medical College, Bambolim	2459812	dean-gdch.goa@nic.in		Dental
4.	Tiswadi	North	Rural Health & Training Center	Mandur, Goa 403104	2208046	NA	21	
5.	Tiswadi	North	Military Hospital	Opposite Kala Academy, Campal, Panaji	7772802098	mhpanaji@gmail.com	96	Multispecialty
6.	Darbandora	South	Central Hospital	Tisk Usgao, Tisca, Goa 403406	+(91)-832-2344221, 2344228	thcpillem-heal.goa@nic.in	20	Darbandora
7.	Mormugao	South	Mormugao Port Trust Hospital	Near Customs Colony, Vasco	2594902/2594343/9822311327	cmo@mptgoa.gov.in	100	Multispecialty
8.	Mormugao	South	INHS Jeevanti	Mundvel, New Vaddem, Vasco da Gama, Goa 403802	2582952/2582624	inhsjeevanti1@gmail.com	84	Multispecialty
9.	Salcete	South	T B hospital	Monte Hill, Margao, Goa	2714866	tbhospitalmargao@yahoo.in	65	TB Hospital
10.	Salcete	South	E.S.I.S Hospital	Near Dr. Rajendra Prasad Stadium, Margao, Goa	2704606	esih-margao.goa@esic.in	58	Multispecialty
11.	Tiswadi	North	Health Centre, Goa University	Goa University, Taleigao Plateau, Goa	8669609088	medicalofficer@unigoa.ac.in		
12.	Mormugao	South	GSL Medical Centre with attached Laboratory	C/o Goa Shipyard Limited, Vaddem, Vasco da Gama. 403802	8551050001	vedpaltari@goashipyard.com		
No of facilities		12	Bed strength		724			

Government Vet Hospitals

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
1.	Bardez	North	AHVS Mapusa	Acoi, After Thivim Industrial Estate, Mapusa	NA	NA
2.	Ponda	North	Department of Animal Husbandry and Veterinary Services, Government Veterinary Hospital	Curti, Ponda, Goa	2313027	adponda-ahvs.goa@nic.in
3.	Tiswadi	North	AHVS Panaji	Tonca Miramar (Near Hotel Goa International)	NA	NA
4.	Sattari	North	AHVS Honda	Main Road, Honda Sattari	NA	NA
5.	Salcete	South	Veterinary Hospital Sonsodo, Margao	Sonsodo, Gogol, Curtorim Macasana Road, Margao Goa	2759392	adsonsodo-ahvs.goa@gov.in
No of facilities			5			

ESI Dispensaries						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
1.	Bardez	North	ESI Dispensary Mapusa	GIDC Building, 1 st Floor, Industrial Estate, Dattawadi, Mapusa, Goa	2265375	disp-mapusa.goa@esic.nic.in
2.	Bicholim	North	ESI Dispensary Bicholim	At-112, Industrial Estate, Bicholim	2362480	disp-bicholim.goa@esic.in
3.	Pernem	North	ESI Dispensary, Tuem	Goa Industrial Development Corporation Building, Ground Floor, Industrial	0832-2201544/ 9822162426	NA
4.	Ponda	North	ESI Dispensary Ponda	Shop No 80, Commerce Centre Ponda, Tisk	9921043517/2 314399	disc-ponda.goa@esic.nic.in
5.	Ponda	North	ESI Dispensary Kundaim	Kundaim Industrial Estate, GIDC Building, First Floor, Kundaim	2395165	disp-kundaim.goa@esic.nic.in
6.	Ponda	North	M/s Medical Dispensary	House No225/2/GF, Deulwada Marcel,Ponda Goa	9922483244	vinod_verekar@yahoo.co.in
7.	Sattari	North	ESI Dispensary Honda	ESI Dispensary, Shrihari Ajoba Complex, House No- G1,G2, Ground Floor, Honda Market, Honda, Sattari – Goa	2370070	disp-honda.goa@esic.nic.in

8.	Tiswadi	North	ESI Dispensary Panaji	Employees' State Insurance Corporation, Panchdeep Bhavan, First Floor, EDC Plot No. 23, Patto Plaza, Panaji, Goa-403001	2438870	rd-go@esic.in
9.	Tiswadi	North	ESI Dispensary Corlim	ESI Dispensary, Corlim Industrial Estate, Corlim, Ilhas, Goa	2285624	disp-corlim.go@esic.nic.in
10.	Mormugao	South	ESI Dispensary Vasco	First Floor, Dr. Ozler Forum Building, Near At. Andrew Church, Vasco	2512260	disp-vasco.go@esic.nic.in
11.	Mormugao	South	ESI Dispensary Sancoale	P-72, Industrial Estate, Sancoale	2555372	disp-sancoale.go@esic.nic.in
12.	Quepem	South	ESI Dispensary	Mackey's Building, Railway Station Road, Curchorem	2604261/2650413	disp-curchorem.go@esic.nic.in
13.	Salcete	South	ESI Dispensary Margao	ESI Hospital Complex, Near Rajendra Prasad Stadium, Margao-Goa-403601	2735819	disp-margao.go@esic.nic.in
14.	Salcete	South	ESI Dispensary Verna	ESI Dispensary, Plot No. 63, Sairaj, Keserval, Verna, Mormugao, Goa	9422455657	disp-verna.go@esic.nic.in
No of facilities			14			

VI.H. List of Private bedded Healthcare Facilities (Hospitals) in Goa

Private Hospitals in North Goa								
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID	Bed Streng -th	Specializat -ion
1.	Bardez	North	Dr. Mopkar's Ankur Nursing Home & IVF	Near St. Xavier's College, Mapusa-Goa, 403507	2266388	ankurnursing@rediffmail.com	20	Maternity
2.	Bardez	North	Kalangutkar Nursing Home	Near Remanso Hospital, Rajwaddo, Angold	2262852/8007861323, 9422061323	atulakalangutkar@hotmail.com	12	Maternity
3.	Bardez	North	Bhagyoday Hospital	Dattawadi, Near Ashirwad Hall, Mapusa, Goa	9156111349766746264	chayaneogi@yahoo.com	19	Maternity Cardiology

Private Hospitals in North Goa								
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID	Bed Streng -th	Specializat- ion
4.	Bardez	North	Dr.Olavo Hospital	Near Alankar Theatre	2262383/9 422642100		15	
5.	Bardez	North	Gauns Child Care Hospital	3rd floor, Cosmos Centre, Mapusa-Goa	2250948/9 822437898	gaunschildcareh ospital@gmail.c om	16	Pediatric
6.	Bardez	North	Dr.Prabhu's Nursing Home	OppositeDamia n de Goa,Green Hill, Porvorim	976450438 3	govindprabhu24 13070@gmail.c om	4	Maternity
7.	Bardez	North	Kenkre Hospital	109/A, Dattawadi, Mapusa Goa, 403507	982212112 6/ 942330776 9	sunilkenkre@ya hoo.co.in	10	Maternity
8.	Bardez	North	Mathew Braganza Hospital and Medical Research Centre	Calangute Market,Naikawa do,Calangute	083267166 66 083265221 11	braganzahospita l@gmail.com	15	Multispecialty
9.	Bardez	North	Dr.Dukle's Hospital And Research Centre	Calangute - Aquada Road Ximer, Candolim	2489333 982210300 8	iddrduklehospit al@gmail.com	18	Multispecialty
10.	Bardez	North	Dr.Antonio Pinto do Rosario Maternity Hospital	Dr. Pinto do Rosario Hospital, Alto Porvorim, Near Candelaria Chapel 403521	2417717	drsidney@pinto rosario.com	20	Dental Maternity
11.	Bardez	North	Dhumaskar General Hospital	Gomes Viegas Road, Comprem,Thivi m	083222985 92 2913000/9 822747467	drdhumaskar@r ediffmail.com	14	others
12.	Bardez	North	Mandovi Clinic	Alto Porvorim, Near Tarun Bharat	982248878	sunilbnadkarni @hotmail.com	18	Multispecialty
13.	Bardez	North	JMJ hospital	Next to Clergy Home,Wada kade,Porvorim	726401305 0	jmjhospitalgoa @gmail.com	25	Eye care Maternity Orthopedic Cardiology Skin clinic Pediatric others

Private Hospitals in North Goa								
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID	Bed Streng -th	Specializat- ion
14.	Bardez	North	Mapusa Clinic	Near St. Britto High School, Mapusa, Bardez Goa	0832-2263346/43 /9422441554	mapusaclinic@gmail.com	26	Maternity
15.	Bardez	North	Vision Multispeciality Hospital	Near Sankalp Nursing Home,Duler Ground Road, Duler, Mapusa 403507	2256788 2256188 9822131128	shetyecp@yahoo.com www.visionhospitalgoa.com	40	Multispecialty
16.	Bardez	North	Dr.Kolwalkar's Galaxy Hospital	Near Severina Garden, Xelpem, Duler, Mapusa, Goa, 403507	8380065970/9823033674 8380065971	contact@galaxyhospitalgoa.com/ drkolwalkargalaxyhospital2gmail.com	25	Multispeciality
17.	Bardez	North	Remanso Hospital	NearKalangutkar Nursing,Rajvaddo, Near Alankar Theatre,Mapusa 403507	2262466 9822124284	remansosisters@gmail.com	25	Multispecialty
18.	Bardez	North	RG Stone Urology and Laparoscopy Hospital	NH 17,Near Dominos Pizza,Porvorim, 403521	9552558899 8897199988	Kiran.m@rghospital.com	46	Nephrology others
19.	Bardez	North	Chodankar Multispeciality Hospital	NH 17, Next to Sanskruthi Restaurant,Porvorim, Goa 403521	9822589291	chodankarhospital@gmail.com	25	Multispecialty
20.	Bardez	North	St. Anthony Hospital and Research Centre	Near Anjuna Petrol Pump, Zorin,Anjuna Goa 403509	2274308	NA	60	Multispecialty
21.	Bardez	North	Dr.Barbosa Eye Clinic and Hospital	First Floor, Braganza Trade Centre, Opposite Remanso Hospital,	9822162663	alethea.jodi@gmail.com		Eye care

Private Hospitals in North Goa								
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID	Bed Streng -th	Specializat- ion
				Rajwaddo, Mapusa, Goa				
22.	Bardez	North	Sankalp Nursing Home	Opposite St. Anthony 's High School,Dhuler	0832 - 2264648 / 9422593203	sankalp.nursing home@rediffmail.com	20	Orthopedic others
23.	Bardez	North	Dharwadkar Nursing Home	Near St.AlexChurch,C alangute, 403516	2276588/9 226295182	doctorsandesh @rediffmail.co m	9	Multispecialty
24.	Bardez	North	Bosio Hospital	Football Ground,Pinto waddo,Opposite Montero,Pilerne -Candolim Road 403515	928443209	bosiohospital@r ediffmail.com	25	Multispecialty
25.	Bicholim	North	Mardolkar Hospital	253, Near Shanta durga High School,Nagzar wada,Bicholim, Goa403504	942205725 7/9404432 972	vismardolkar53 @gmail.com	9	Multispecialty
26.	Bicholim	North	Mahatme Nursing Home	House No 2851 Sankalp Garden, SH - 1, Near ITI CollegeBicholim , Goa	2362659/ 982248880 2	mithun_mahat me@yahoo.com	10	others
27.	Bicholim	North	Our Lady of Grace Maternity Clinic Bicholim Goa	Near Old Busstand,Bicholi m,Goa 403504	750794784 3 /89990428 89	gracematernityc linic@gmail.co m	20	Multispecialty Maternity
28.	Bicholim	North	Subodh Maternity Home	Sonar Peth,Bicholim road, Near A. A. food, Near Tran valanki,Bicholim ,Goa 403504	2362551/9 673195614	subodhkamsar @yahoo.com	10	Maternity
29.	Bicholim	North	Adhar Hospital	Bicholim- Sankhalim road, Karapur,Goa	2361094/9 765658767	kashishkaustub h@gmail.com	20	Multispecialty Maternity

Private Hospitals in North Goa								
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID	Bed Streng -th	Specializat-ion
30.	Bicholim	North	Dr. Caeiros Bicholim Polyclinic Maternity & Surgical Hospital	MDR21,Lamgaon,Caeiro Building,Sonarpeth,Bicholim,Goa	2362025/9822487180	dr.caeiro@rediffmail.com	30	Multispecialty
31.	Bicholim	North	Chaitanya	Vasant Nagar, SanquelimVelguemsurla,Usgao Road,Rudreshwar Colony, Sanquelim, Goa 403505	2364306/9421156006	vishy6006@gmail.com	21	Maternity
32.	Pernem	North	Smt. Hirabai M. Parsekar Memorial Hospital	Ashka Wada,Mandrem ,Goa 403527	0832-2247251/7507411625	pritishparsekar@gmail.com	10	Multispecialty
33.	Pernem	North	Franjoa Nursing Home	House No666, Querim-Arambol-Agarwada Road,Mandrem, Goa 403527	2247230/9421257540	drjoserupali@yahoo.co.in	5	Maternity
34.	Pernem	North	Redkar Hospital &Research Centre	Goa National Highway,Oxelbag, Hargal,Pernem	9146885522,9545832236	redkarhospital@gmail.com	40	
35.	Ponda	North	Navjeevan Nursing Home	Electricity Department Staff Residential Colony,Ponda 403401	9226891911, 0832-2312723	drvinaykamat@yahoo.co.in, vinaykamat812@gmail.com	12	Multispecialty
36.	Ponda	North	Usgaonkar Children Hospital N.I.C.U.&Clinic	1 st Floor-2 nd Floor,Usgaonkar Building,Margao -Ponda Road,Opposite Axis Bank,Ponda	2319265/9822120955/9423886354	drsantosh@yahoo.com	20	Multispecialty

Private Hospitals in North Goa								
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID	Bed Streng -th	Specializat- ion
				Goa 403401				
37.	Ponda	North	Drishti Eye Hospital	1st Floor, Bhanudeep Arcade, Upper Bazar Ponda Goa	2317624/9850474181	rajbhat_123@yahoo.co.in	10	Eye care
38.	Ponda	North	Platicare Hospital	Near ID hospital, Tisk,Ponda,Goa	2311362/9850726229	dr.amitnaik@gmail.com	16	Maternity
39.	Ponda	North	Jankibai Memorial Hospital	Jankibai Memorial Hospital, Dr.B. D. Suktanker Marg,Ponda	2313002	-	7	Multispecialty
40.	Ponda	North	Savaikar Hospital	Near Almeida High School,Warkhandem,Ponda	2319202/9423889004	drsavaikar@gmail.com	18	Multispecialty
41.	Ponda	North	Priolkar Nursing Home	Near Almeida High School,Savitri Niwas,Warkhandem,Ponda	2314178	NA	5	Maternity
42.	Ponda	North	Sushrusha Hospital	Radhakrishna Apartments, Near Maruti Temple,Tisk,Pon da	2315610	sushrusha25@gmail.com	12	Maternity
43.	Ponda	North	Dr Juwarkars Hospital	Flat No. F- 1,1076, Almeida Complex,Ponda	2312600	N.A	10	Pediatric
44.	Ponda	North	Kamat Nursing Home	Upper Bazaar, Shanti Nagar, Ponda, Goa 403401	7721847695, 0832-2312381, 2314635	pondaivf@gmail.com	20	Maternity Pediatric others

Private Hospitals in North Goa								
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID	Bed Streng -th	Specializat- ion
45.	Ponda	North	Anandi Nursing Home and Maternity Hospital	Orgao Marcel, Orgao, Goa 403107	982212077 2287744	drvinayakgarde@yahoo.in	10	Maternity
46.	Ponda	North	Kamakshi Homeopathic Hospital	Shiv Shail, Shiroda, Goa - Near Smt Kamladevi Hede High School	22306218	skhmchgoa98@gmail.com	25	others
47.	Ponda	North	Singbal Hospital	Near Shivaji Fort, OppositeGopal Ganapati Temple, Farmagudi, Ponda	702852166 4	natashasingbal@gmail.com	30	Maternity Cardiology
48.	Ponda	North	Kamakshi Arogyadham Ayurvedic Hospital	Vazem, Pandagal Shiroda, Goa 403103	880667117 4	ayurgoa@rediff mail.com	100	others
49.	Ponda	North	Raikar Hospital	Deulwada, Marcel, Ponda. Goa. 403107	083228730 0,9822587 669	drpairaikar@gmail.com	8	Maternity Pediatric
50.	Tiswadi	North	Trinity Hospital	D.B. Marg, St. Mary Colony, Miramar Goa 403001	083224624 44/083224 61888	trinity.healthcarehospital@gmail.com	20	Maternity
51.	Tiswadi	North	Om Urology Hospital	S/4, Campal Trade Centre, Behind Military Hospital, Panjim	982212447 6	waze2003@gmail.com	5	others
52.	Tiswadi	North	Ghanashyam GovindKamat Memorial Hospital	Jairam Complex, Neugi Nagar, Rua de Ourem road, Mala, Panaji	2435725/9 422444727	ggkmhospital@yahoo.co.in	18	Maternity

Private Hospitals in North Goa								
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID	Bed Streng -th	Specializat- ion
53.	Tiswadi	North	Kaisare Eye and Dental Hospital	B-1,First Floor, Jairam Complex,F-7,10, Neugi Nagar,Panaji-Goa	2424517/9823151706	sumeetkaisare@gmail.com	8	Eye care Dental Pediatric
54.	Tiswadi	North	Sushruti Hospital	Behind Indian Overseas Bank, Ponda - Panaji Rd, Carambolim, Corlim	9423889212284008	manoj.dhulapkar@gmail.com	15	Multispecialty
55.	Tiswadi	North	Cosme Matias MenezesHospital	Off Fr Agnelo Road,Altinho,Panjim, Goa	2237574/2225918	reception@menezespolyclinic.com/menezespolyclinic@yahoo.com	27	Multispeciality
56.	Tiswadi	North	Campal Clinic	Next to Bal Bhavan, OppositeParade Ground, Panjim	9822489589/0832-6521767/0832-2222111	drskenkre@yahoo.com, campalhealthservices@gmail.com	30	Multispecialty
57.	Tiswadi	North	Vintage Hospital	Caculo Enclave,St Inez, Panaji-Goa 403001	67114626711542	administrator@vintagehospitals.com info@vintagehospitals.com	23	Multispecialty
58.	Tiswadi	North	Manipal Hospital	Dr..E Borges Road, Near Cidade Goa Hotel Dona Paula	9152886079	info@manipalhospitals.cm	130	Multispecialty
59.	Tiswadi	North	Healthway Hospital	Ella village, Carambolim, Old Goa	982213930	priya.sawant@healthwayhospitals.com	150	Multispecialty

Private Hospitals in South Goa

Sr No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID	Bed Strength	Specialization
60.	Mormugao	South	Talauliker Nursing Home	1 st Floor, Khalap Mansion, Vaddem, New Vaddem, Vasco da Gama, Goa 403802	2513456	NA	18	Maternity
61.	Mormugao	South	Vaatsalya Hospital	DeMello Building, 501, Swatantra Path, Vasco da Gama, Goa 403802	9850796910, 9822156847, 2501222	shainami@yahoo.com, namitakamat@yahoo.co.in	16	Maternity Pediatric others
62.	Mormugao	South	Pai Hospital	Vaddem Mercedes Road, New Vaddem, Vasco-Da-Gama, Goa	2513641/9822120945/252511899	paihospital@yahoo.com	20	Multispecialty
63.	Mormugao	South	Dr..Kamat Nursing Home	Near Municipal Garden, Vasco	9422065395	kamatajit@gmail.com	4	Maternity
64.	Mormugao	South	Vishwa Sanjivani Health Centre	Mhapsekar Building, Vasco Da Gama, Goa, Near Old Mpt Hospital	2510024	vishwasanjivanihealthcentre@gmail.com	50	Multispecialty
65.	Mormugao	South	Salgaonkar Medical Research Centre	VM Salgaonkar Hospital, Opposite Airport Road, Chicalim, Vasco 403711	66919192540083	smrc@smrcgoa.org	120	Multispecialty
66.	Mormugao	South	Chikitsa Hospital	First Gate, Verna, Industrial Estate, Verna, Goa	9422058708	chikitsahospital@gmail.com	10	Multispecialty
67.	Quepem	South	Sheldekar Nursing Home	Near Curchorem Railway Station, Sarvodya HS, Curchorem	2650148/9822136624	sheldekara@gmail.com	5	others
68.	Quepem	South	Dr Buvaji Family Welfare Centre	Near Curchorem Railway Station, Curchorem	2654393/9403566666/9823040450	Will message	8	Maternity

Private Hospitals in South Goa								
Sr No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID	Bed Strength	Specialization
69.	Quepem	South	Dr Sonu Kamat Maternity Hospital	Vodlemol Cacora Near Sanvordem Church, Curchorem	2650272/98 90006619	-	20	Multispecialty Maternity
70.	Quepem	South	Shushrushalaya	Near Busstand and Maruti Gad, Curchorem, Goa	2650303	dr.satishkudchadkar@yahoo.com	6	Multispecialty
71.	Salcete	South	Dr. Nagzarkar Hospital and Clinic	Opposite St. Mary of Angles School, First Palvem deusua Road, Chinchini m, Salcete, Goa	2863526/90 96875757	samuelsuyog@gmail.com	16	Multispecialty
72.	Salcete	South	Sinai Clinic and Hospital	1st floor, Vasant Arcade, D'costa Road, Comba, Margao, Goa	2710918/ 976370719 1	apg@rediffmail.com	5	others
73.	Salcete	South	Kerkar Hospital	Martin Dias Road, Aquem, Near St. Sebastian Church, Margao, Goa	2753100 /942194555 5	dr.nitish@kerkarhospital.com	10	Multispecialty
74.	Salcete	South	Kudchadkar Nursing Home (hospital)	Margao Road, Opposite Grace Counter Care Medical Store, Navelim, Goa	2732745	active.goa@gmail.com	18	Maternity Pediatric
75.	Salcete	South	Grace Nursing Home	Behind Grace Church, Margao, Valaulikar Road, Opposite Reliance Trade Centre, Margao, Goa, 403601	2705082	gracenursinghome@gmail.com	20	Multispecialty
76.	Salcete	South	Kamat Nursing Home	Sapana Plaza, A. D Costa Road, Alta Mount, Margao, Goa	2714678/98 22125995	drvvkamat@gmail.com	7	Multispecialty

Private Hospitals in South Goa								
Sr No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID	Bed Strength	Specialization
77.	Salcete	South	Dr. Braganza General Hospital (Infant Jesus Nursing Home)	Mid point between Gogol Circle and Arlem Circle, Eastern Bypass, Agalli - Gogol, Margao Goa	9822383002 /9970519393 /7378325689 /08322759029	drmbraganza@gmail.com	20	others
78.	Salcete	South	Dr. Rebellos Clinic and Hospital	Opposite KTC Busstand, Margao Goa	2704960/9822126349	drsicleticarebell@gmail.com	14	Maternity
79.	Salcete	South	Noble Hospital (Care you can believe in.)	St Joaquim Road, Borda, Margao, Goa	2726665	rahulborkar77@rediffmail.com	12	others
80.	Salcete	South	Dr. Roque Ferreira's Memorial Hospital	Corebhat, St. Joseph Colony, Verna, Salcete, Goa 403722	2782369/8888888888	clunyverna@gmail.com	12	Maternity others
81.	Salcete	South	Ashirwad Urology and Laparoscopy Hospital	Vikrant Building, Malbhat, Madgaon, 403601 Goa Landmark: Opposite SBI Personal Branch	9152548328/2736460	ashirwadhospitalgoa@gmail.com	6	others
82.	Salcete	South	Kulkarni Eye Clinic and Hospital	Sapna Plaza, A D Costa Road, Behind Grace Hospital, Margao, Margao, Goa	2737338/9422057896	dr.kadambari@yahoo.co.in	6	Multispecialty others
83.	Salcete	South	Yashodhan Hospital	Near Power House, Opposite Paradise Building.	2720552	drbypd@yahoo.com	18	others
84.	Salcete	South	Trimurthi General Hospital	Las Palmas Housing Estate, Margao, Goa,	2700707/ 8380921257	trimurthihospital.swmc	16	Multispecialty

Private Hospitals in South Goa								
Sr No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID	Bed Strength	Specialization
85.	Salcete	South	City Hospital	Opposite Minaxi Hotel, Isidoor Baptista Road, Margao, Goa	2714354	cityhospital51@gmail.com	20	Dental Maternity
86.	Salcete	South	Dr. Kantak's Orthopedic Hospital	Rosadel Enclave, Old Market, Opposite Dominos, Near District Court, Margao Goa	2703892/954555006	chinmay.kantak@gmail.com	12	Orthopedic
87.	Salcete	South	Borkar Nursing Home	A. V. Concecao, Abadeyaria Road, Near Damodar Temple, Margao Goa	9152552611/9823129004	borkarnursinghome@gmail.com	8	Maternity
88.	Salcete	South	Dr. Menezes Nursing Home	Bernado Costa Road, Margao Goa 403601	2704791	jeanlouis.menezes@gmail.com	16	Maternity
89.	Salcete	South	Kcrs Horizon ICU and Multi-specialty Hospital	Near Big G, Rua de Saudades, Pajifond, Margao, Goa	2705555 / 8805579918	general.manager.horizon@gmail.com	35	Multispecialty
90.	Salcete	South	Royal Hospital	Opposite Power House Road, Near St. Sebastian Church (Pandava Chapel), Aquem, Margao, Goa	2737722	royalhospitalmargao@gmail.com	48	Multispecialty
91.	Salcete	South	Nagarsenkar's Classic Hospital	Next to Apollo Victor Hospital, Malbhatt, Margao	2711013	hospitalclassic@gmail.com	40	Multispecialty
92.	Salcete	South	A.V Da Costa Memorial Clinic	Near Nehru Stadium, Fatorda, Margao Goa	2741282/9823084502	joanmira@yahoo.co.in	21	Multispecialty

Private Hospitals in South Goa								
Sr No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID	Bed Strength	Specialization
93.	Salcete	South	Gracias Maternity Hospital	Next to Police Station, Margao, Goa	2730958	gmh1941@gmail.com	24	Multispecialty
94.	Salcete	South	Aster Hospital	Road Going to Monte Hill Chapel from Holy Spirit Junction, Near Holyspirit Church, Margao, Goa	0832-2705001 / 02, 9890341931	abhijeetv@gmail.com/director@asterhospitalgoa.com	26	Multispecialty
95.	Salcete	South	Shri Damodar Nursing Home	Agramorod, Gudi Paroda, Salcete, Goa	2860111 9890096222	krkamathgoa@gmail.com	25	Pediatric others
96.	Salcete	South	Dr. Lawandes Hospital and Medical Research Centre	Dr Lawandes Hospital, Power House Road, Aquem, Goa	2751938	lawandehospital@gmail.com	25	Multispecialty
97.	Salcete	South	Mother Care Hospital	Near St. Joaquim Chapel, Borda, Margao, Goa	2700104	chikitsamothercare@gmail.com	30	Multispecialty
98.	Salcete	South	Grace Intensive Cardiac Care Centre and General Hospital	Opposite BPS Club, Behind Asro Housing Society, Pajifond, Margao, Goa	2725391/ 9822138607/9822011126	graceicc@sancharnet.in	65	Multispecialty
99.	Salcete	South	Victor Hospital	Victor Hospital, Opposite Margao Railway Station, Malbhat, Margao, Goa	2728888	info@victorhospital.com	150	Multispecialty
100.	Salcete	South	Harshad Kamat Hospital (Child Care Centre)	1 st Floor, Vasant Arcade Building, Behind Police Station, Comba, Margao, Goa	9822101905	harshadgkamat@yahoo.co.in	8	pedaetric

Private Hospitals in South Goa								
Sr No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID	Bed Strength	Specialization
101.	Salcete	South	Adarsh Family Hospital	A/4- Sapana Valley, Pajifond, Margao, Goa.	9822151009	fermer@rediffmail.com	10	Maternity
102.	Salcete	South	Correia Afonso Hospital	Correia Afonso Hospital,Rebor, Benaolim, Salcete, Goa - 403716	0832-2772024/9822163490	baladeepa@gmail.com	10	Maternity
103.	Salcete	South	Baracho Hospital and Maternity Home	H No 1300Chirdolem, Curtorim, Salcete Goa.403709	9822120696	hectorbaracho@gmail.com	10	Maternity
No of facilities			103		Bed strength		2451	

VI.I. List of Pet clinics in Goa in Goa

Pet clinics in North Goa						
Sr No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
1.	Bardez	North	Animal Clinic	Grand Morod, Saligao, Goa	2278020/9765632114	brijesh.naik@gmail.com
2.	Bardez	North	Mapusa Veterinary Care Centre	Palmar Apartment, District Hospital Road	86789179207218746812	ayeshachunni@gmail.com
3.	Bardez	North	Veterinary Clinic	Garden Centre, 009/A, Opposite Mapusa Police Station, Mapusa	9822120646	vetindia1@hotmail.com
4.	Bardez	North	PetZone Veterinary Clinic	Udayan Building, Bhatkar Vaddo, Opposite NH17, Socorro, Goa 403501	081081 426879028045488	petzone.goa2gmail.com
5.	Bardez	North	Estibeiropet Clinic	834, Kadamba depot road, Alto porvorim, Penha de	0832 2417827	estibeiropetclinic@gmail.com

Pet clinics in North Goa						
Sr No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
				França, Goa 403521		
6.	Bardez	North	GSPCA,Goa Society for Prevention of Cruelty To Animals,NGO	78,Barkot,Torda, Salvador Do Mundo, Bardez Goa	2416180 9821016325	gspcavethospital@gmail.com
7.	Bardez	North	The WVS Goa Hicks International Training Centre (ITC), NGO	Near Assagao Panchya, Madungo Vaddo, Assagao, Bardez, Goa	09552557632	hicksitc.org.uk
8.	Bardez	North	Welfare for Animals in Goa	1198, Mulga Vaddo, Opposite HDFC Bank, Siolim, North Goa 403517	7045349192	crysel.garg@gmail.com
9.	Pernem	North	*Kubal Clinick	Madhalawada - Querim, Pernem - Goa	9922113303	kubaltd@gmail.com
10.	Pernem	North	*Dr. Sachin R. Gaikwad	Dhaktebag - Querim, Pernem - Goa	9764326022	srg700@gmail.com
11.	Ponda	North	People for Animals NGO	Near Goa Dairy,Curti, Ponda403401	3207920/ 2980757	pfagoa@gmail.com
12.	Tiswadi	North	Petland Veterinary Clinic	Golden Sapphire, C2, Ground Floor, St. Mary's Colony, Miramar, Panaji	9890697636	ashishnchetna@hotmail.com
13.	Tiswadi	North	Dr.Gaonkar's Pet Clinic	# 4 Gr Floor Mandovi Elite Building, Caranzalem, Near Rosery Chapel	098816 56692	drgoankar@yahoo.co.in
14.	Tiswadi	North	Vet Clinic	Shop No 18, Lydia Garden, Opposite P.W.D, St Inez, Panjim	9822101965	umayenkar@yahoo.com
15.	Tiswadi	North	Dr Chawlas Pet clinic	O Coquero Circle, Porvorim, Next to Tata Motors, Behind, Monginis, Alto Porvorim, Porvorim, Goa 403521	090119 51421/ 18002082452	-

Pet clinics in North Goa						
Sr No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
16.	Tiswadi	North	Dr.Batras Pet Clinic	Shop No S2, Brindavan Building, Ground Floor, Caranzalem Road, Caranzalem, Goa - 403002, Near Tonca Junction	2461967 2380071	info@drbatraspetcar e.com
17.	Tiswadi	North	PAWS - Panjim AnimalWelfare Society	Av. Teófilo Braga, Tambdi Mati, Electricity Colony, Santa Inez, Panaji	2225850	paws.goa@gmail.co m

Pet clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
18.	Mormugao	South	Kumar Pet Clinic	Shop No 2. Anand Arcade 1, Opposite Anand Residency Building, Chicalim, Goa	088062 36936	sudhir6277@rediffmai l.com
19.	Mormugao	South	Pet Care Clinic	DI-4, Suvidha Complex, Vasco, Vasco, Goa, 403802	0832 251 6225	-
20.	Quepem	South	People for Animals (PFA) Goa	Old Police Station, Bansai, Cacora- Curchorem,Goa 403706	3207920/ 2980757	pfagoa@gmail.com
21.	Quepem	South	Goa Animal Welfare Trust	Bansai, Cacora, Curchorem Goa ,403706	2653677/ 9763681525	Gawt.curchorem@gm ail.com/suresh.kakodk ar@gmail.com
22.	Salcete	South	Marc Pet Clinic	Shop No 2, Prabhakar Apartments, Opposite P. W.D, Fatorda Margao Goa	N.A	N.A
23.	Salcete	South	Viegas Pet Clinic Colva	4th Ward,H.No. 390,Colva	2788759	aneeshgvigas@gmail.c om
24.	Salcete	South	Paws and Whiskers	Shop No.03, Ground Floor, Valley View Apartments, Sonsodo, Raia,Salcete, Goa	9527927321	meow21@gmail.com

Pet clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
25.	Salcete	South	Vet for Pets	Shop No.8, Godwin Drive in Residency, Opposite Jackson Restaurant, St Joaquim Road, Borda, Margao	6484648/ 9822159090	drkiran@tailwaggerz.net
26.	Salcete	South	Tailwaggerz	Hemusha Chambers, Opposite New Era School, Malbhat, Margao	2703535/ 6483648	drkiran@tailwaggerz.net
27.	Salcete	South	Dr. Carol Misquieta	Varca, Salcete Goa	9607918137	coolcarol85@gmail.com
28.	Salcete	South	Dr Anjali Naronha	H No 206/1 Madel Colva Salcete Goa	9921708042/ 2788257	vetanjali@gmail.com
29.	Salcete	South	Curador Veterinary Clinic	100/A, Belloy, Nuvem, Salcete, Goa	7507189006/ 9786250507	myrondacosta@gmail.com
30.	Salcete	South	Ashely Carniero	Behined Muncipal Council Cuncolim Goa	8208584797	-
No of facilities			30			

VI.J. List of Private non-bedded Healthcare Facilities in Goa

Private clinics in North Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
1.	Bardez	North	Obstetrician, Gynecologist, Infertility Specialist and Laproscopy Surgeon	Block B, First Floor, Saldanha Towers, Mapusa	9146141969	NA
2.	Bardez	North	Dr. Milind Colvalcar's Fertility Clinic	Near St. Brittos High School, Feira Alto, Mapusa	9152548321	milind_colvalcar@rediffmail.com

Private clinics in North Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
3.	Bardez	North	Holistic Homeopathic Clinic	H.No 1/118, Cunchelim, Mapusa, Goa	08327617451	-
4.	Bardez	North	Modern Homeopathy	2nd Floor, Xavier Enclave, Opposite Mapusa Municipal Council, Duler, Mapusa	1218079	kidneycureclinic@gmail.com
5.	Bardez	North	Cure Centre (Ayurvedic)	2nd Floor, Xavier Enclave, Behind Court, Near Ceat Tyre Showroom, Duler, Mapusa	982212615/9152813445	Does not have
6.	Bardez	North	Omkaar Cardio Diabetic Centre	1st Floor, Vitara Tower, Before Petrol Pump, Duler, Mapusa, Goa	9422449571 / 083 - 2250238	rajeshbhatkurse@rediffmail.com
7.	Bardez	North	Sai Clinic	Opposite Landmark Supermarket, Duler, Mapusa	9923245460	poojaskerker@gmail.com
8.	Bardez	North	Obstetrician, Gynecologist, Laproscopist and Infertility Specialist	2nd Floor, El Capitan, Above Sony Showroom, Mapusa	2253044/9822128765	drkolwalkargalaxyhospital@gmail.com
9.	Bardez	North	Dr. Tar's Polyclinic	Opposite Duler Football Ground, Mapusa	07798900785	amitsrokade@gmail.com
10.	Bardez	North	Bandodkar Clinic	1st Floor, Above Navtara, Dwarkanath Centre, Opposite Bodeshwar Temple, Mapusa	6510210/09823100705	shailesh1402@yahoo.co.in
11.	Bardez	North	Dr. Milind Dabholkar's ENT Clinic	3rd Floor, Edcon Centre, Above Axis Bank, Angod, Mapusa	2254942/9822161802	aryandabholkar@gmail.com
12.	Bardez	North	Skin and V.D. Consultant	Phase 2, Garden Centre, Mapusa	2250097 /9822482010	rvhede@gmail.com
13.	Bardez	North	Dr Alex R. Fernandes Orthopaedic Surgeon	Garden Centre II, Calangute - Mapusa Road, Opposite Mapusa Police Station, Mapusa, Goa, 403507	9823416887	alexiofrans4@gmail.com
14.	Bardez	North	Dr Shodan V. Kamat Orthopaedic Surgeon	B-8/G-2, Phase II, Behind ICICI Bank, Garden Centre, Near Mapusa Police Station, Khorlim, Mapusa, Goa 403507	0832 225 4309/982210 467	NA

Private clinics in North Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
15.	Bardez	North	Dr. Harish Tople's Clinic	H. No 165 A/2, Garden Centre, Dangui Colony, Mapusa, Goa 403507	7757018338	drharishtople@gmail.com
16.	Bardez	North	Mapusa Pathology Laboratory	Market Road, Near Saroj Emporium, Mapusa	N.A	N.A
17.	Bardez	North	Ayurveda Clinic	Jessma Business Centre, 2nd Floor, Above Saraswat Bank, Morod, Mapusa	777490567/9822180324	apte_06@yahoo.co.in
18.	Bardez	North	Dr.Ramchandra Bhat	Alto Betim,Betim Road, Near Teen Building, Porvorim	2414037	sunilgoa@rediffmail.com
19.	Bardez	North	Manoshri Children's Clinic	Keni House,NH 17, Porvorim	2417259/9822582889	sunilgoa@rediffmail.com
20.	Bardez	North	Dr.Prabhu's	Plot no. 106, Green Hill Colony, Porvorim	9764504383	govindprabhu2413070@gmail.com
21.	Bardez	North	Shalini Pathology Laboratory & Clinic	S-3,Kieran Apartments,Near Union Restaurant & Bar,Dangui Colony	9881511389	NA
22.	Bardez	North	Manda's Clinical Laboratory	Gomes Catao Complex, Near Alankar Theatre, Mapusa	9923346332252486	manda.bandodkar@gmail.com
23.	Bardez	North	Pereira Clinic	UG-2, Gomes Catao Complex, Near Cine Alankar, Mapusa, Goa	2262466/9822124284	carmen5@rediffmail.com
24.	Bardez	North	Medi+Care Clinical	LG 17,Gomes Catao Complex, Near Alankar Theatre	2252486 A.G.Mashelkar : 9823326486,9370567198	medicare_labs@hotmail.com
25.	Bardez	North	Dr.R.L.Naik	RR Tower, Opposite Vodafone Gallery	2253031	medicare_labs@hotmail.com
26.	Bardez	North	Dr. Subash Kalangutkar	Opposite Vodafone Gallery, Angod, Mapusa	2262699/9823565008	atulakalangutkar@hotmail.com
27.	Bardez	North	Mansi Clinic	Opposite Jama Masjid, Angod, Mapusa	2253102 Dr.H.G.Biradar - 9822167422/9423834388	mansiclinic@rediffmail.com

Private clinics in North Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
28.	Bardez	North	Dr.Varsha Kamat Clinic	Office No 13,1st Floor,El Capitan Centre,Near Court Junction, Mapusa, Bardez,Goa	2263302/9326 101311	kamatvarsha2710@gmail.com
29.	Bardez	North	Ayurveda Elixir Clinic and Pharmacy	Shop No. 708, Pintos Vaddo, Opposite HDFC Bank, Near Canara Bank, Candolim	7768065512	poonamrv9@gmail.com
30.	Bardez	North	Tar Polyclinic	Opposite Goa Football Ground,Dhuler	Dr.Nilesh Tar – 9834525825/983489752326 87	dr.nilesh_tar@yahoo.com
31.	Bardez	North	Diet Clinic	Near VisionMultispeciality Hospital, Duler	8806828288	dietdrclinicmapusa@gmail.com
32.	Bardez	North	Ayurvedic Clinic	Alto Dhuler,Dangui Colony	9923729577	N.A
33.	Bardez	North	Dr.Dubhashi's Clinic	Alto Dhuler,Dangui Colony	9823173053/8380880127	nagueshdubhashi@yahoo.com
34.	Bardez	North	Dr. Pradip Clinic	Britto's Apartment,Near Britto's High School,Mapusa	7767832656	ddr.pradip@gmail.com
35.	Bardez	North	Cure Center	Xavier's Enclave, Near Mapusa Court	9822126154	
36.	Bardez	North	Dr.Mrs Mohinaz Kandolkar	Trimurti Building, Mapusa, Court Junction	9765527108	mohinazk@yahoo.com
37.	Bardez	North	S P Naik	1st Flr St Jerome Bldg, Above Lucky Electronics, Mapusa	2250193/9850 755468	drspnaik@gmail.com
38.	Bardez	North	Healing Touch	Narvekar Chambers,Opposite Mapusa Municipal Market	Dr. Viraja Verlekar - 9823474506	virajasv@gmail.com
39.	Bardez	North	ENT Clinic	Khalap Building, Aildona Taxi Stand, Near Municipality Market, Mapusa	Dr.Kiran Narvekar - 0832-2252286	geetankiran@rediffmail.com
40.	Bardez	North	Arya Clinic (SM Palkar)	Phoenix Plaza,Near Telegn Bookstall, Mapusa	2234366	Not giving
41.	Bardez	North	Dr.Radhika Palyekar	2nd Floor City Scape Commercial Center, Above Yes Bank, Mapusa Goa	Dr.Radhika Palyekar - 9326102414	rpalyekar27@gmail.com

Private clinics in North Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
42.	Bardez	North	Indus Seafarers Health and Welfare Centre(Indus medical centre)	S-2/2,Nova Cidade Complex,NH 17,Porvorim,Goa 403521	2413021 2417036	suresh@dridnani.com mindus_mc@hotmail.com
43.	Bardez	North	Dr.Rajesh G.Bhatkurse's Omkaar Cardio-diabetic Centre	First floor,Vitara Towers, Dhuler, Mapusa	0832-2250238 9527150506	rajeshbhatkurse@rediffmail.com
44.	Bardez	North	Dr.Olegario Nazareth	2nd Floor, Laxmi Bhuvan, SBI Rd, Opposite Remy Studio, Morod, Mapusa, Goa 403507	8322262151/9 822487874	onazareth@gmail.com
45.	Bardez	North	Dr.Ratna Pednecar	Saldanha Towers, Near Mapusa Court	9146141969	NA
46.	Bardez	North	Dhavantari Orthopaedic & Fracture Clinic	Near Neelam's The Grand Inn, Naikawado, Calangute	1) 0832-5625699 2) 9860221977	gurudev_borkar@yahoo.co.in
47.	Bardez	North	Specs-I Vision Care Opticians	G7 Laxmi Apartment Opp HDFC Bank, Candolim Goa	9970320108	specsiopticians@gmail.com
48.	Bardez	North	Dr.Rekha Kamat Tarcar	1/65, Gauravaddo Arpora, Calangute, Goa	0832-2276053	tarcarrekha@rediffmail.com
49.	Bardez	North	Dr.Batra's Homeopathy Clinic	Natekar Building,Opposite Mapusa Municipal Market, Mapusa	07666554520	Admin-go@drbatras.com
50.	Bardez	North	Navjeevan Clinic & Physiotherapy Centre	Duler Ground Rd, Near Cine Alankar, Mapusa, Goa	7083761199	bicholkar1@gmail.com
51.	Bardez	North	Carvalho's Physiotherapy Clinic	Near Hotel Mayura, Morod,Mapusa	0832-2251281/9890391590	bindiya_demelo@yahoo.com
52.	Bardez	North	Roopa Apte 's Ayurvedic Centre	Jesma Business Centre, Morod, Mapusa	7774905675	NA
53.	Bardez	North	Dr Rita Korgaonkar's Clinic	NH 17,Perpetua A,Near Damian de Goa,Porvorim, 403501	9823242328	rita.goa123@gmail.com
54.	Bardez	North	Goa Pain Clinic	Perpetua, BNH 17,Near Alcon Hyundai Showroom,Sucorro, Goa	9158223999	svkgma@rediffmail.com
55.	Bardez	North	Physio Solutions	Opposite Dena Bank,Auroras Haven,Soddo,Aldona	9767999466	svkgmc@gmail.com

Private clinics in North Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
56.	Bardez	North	Dr.Gudyeckar's Clinic	Sweeta Residency,Khorlim	9922394904	milindgudyeckar197@gmail.com
57.	Bardez	North	Dr.G.D.Borkar Dhavantari Orthopaedic & Fracture Clinic	C1,Kavlekar Apartments,Behind Kashinath Building, Khorlim,Mapusa	2251177/9860 221977	gurudev_borkar@yahoo.co.in
58.	Bardez	North	Dr.Tople's Clinic	Garden Centre, Opposite Mapusa Police Station, Mapusa	7757018338	ajtople@rediffmail.com
59.	Bardez	North	Dr. G.P. Mahambre	Cottarbhath, Near Martinho Lobo Supermarket, Aldona Market	9922860351	Does not have
60.	Bardez	North	SARC-Goa	Sai Acupuncture Research Centre (SARC-Goa),Near SBI Bank, On Mapusa-Panaji Highway,Alto Porvorim, Goa-India. 403521	0832-2412100	drmbprabhu@gmail.com sarcgoa@gmail.com
61.	Bardez	North	Dr. Sandeep Kenkre Clinic	Ground Floor, Sukerkar Mansion, M G Road, Mapusa, Goa - 403507, Opposite Government Printing Press	0832 222 4951	drmbprabhu@gmail.com sarcgoa@gmail.com
62.	Bardez	North	Dr. Geeta Kalangutkar's Acupuncture Clinic	Porvorim, Sangolda, Goa - 403501	9923966403	Does not have
63.	Bardez	North	Laser Eye Clinic	Flat No F 1, 1st Floor, Govind Sadan, Alto Porvorim, Goa - 403521	9422456027, 9764408209	dratulkamat@yahoo.co.in
64.	Bardez	North	Dr. Dhume's Eye Clinic	Comunidade Ghor, Angod, Mapusa	8503096776	-
65.	Bardez	North	Dr.Victor's Eye clinic	B4,Riviera Residency,Near PDA Plots,Alto Porvorim,Goa 403521	2411435	fernandesvictor@gmail.com
66.	Bardez	North	J H Cuncolienar Eye Clinic	Room No 3, Loyola Building, Opposite Mapusa Urban Bank, Mapusa, Bardez,Goa, 403507	2263696	-
67.	Bardez	North	Apurbai Children's Clinic	Apurbai Children's Clinic, S-1/101, Nova Cidade Complex, Alto- Porvorim, Goa 403521	9850465650 / 0832-2412924	apurbai@gmail.com

Private clinics in North Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
68.	Bardez	North	Dr.Poonam's Child and Newborn Clinic	Panchavati Journalist Colony, Alto Porvorim, Bardez, 403521	9850476913 (personal) 9225905291 (clinic)	drpoonamchildspecialist@gmail.com
69.	Bardez	North	My Sight Eye Clinic	UG 10, Gomes Catao Complex, Near Cine Alankar, Mapusa,Goa 403507	9890698170/ 9730507530	quadrosaudrey@gmail.com
70.	Bardez	North	Bhobe Clinic	B 107,Saldanha Business, Towers,Altino,Mapusa,Goa	9423889424/ 2251100	arunbhobe90@gmail.com
71.	Bardez	North	Dr Gauri's Gynaec Clinic	306, 3rd Floor, Cosmos Centre, Opposite Saraswat bank, Morod, Mapusa	9767409950 / 9689135228	dotorgauri@gmail.com
72.	Bardez	North	Dr Tilves Clinic	LMF-110, Journalist Colony,Near Bank of Maharashtra, Near Goa Housing Board,Behind Sai Service, Alto Porvorim, Bardez, Goa	9823240396	amoltilve@gmail.com
73.	Bardez	North	Dr Mulgaonkar Clinic	Near Devashri Gardens, Alto Porvorim, Bardez, Goa. Pincode: 403521	09890199030 / 08322417694	npmulgaonkar@gmail.com
74.	Bardez	North	Dr K.D Sawant Clinic	Dr K.D Sawant Clinic, Opposite Kavlekar Supermarket, Near Teen Building, Porvorim -Bardez, Goa 403521	9226880881, 9764364695	kds2397@rediffmail.com
75.	Bardez	North	Navjeevan Ayurveda	BF 4, First floor, Above YES Bank, Citiscape Commercial Centre, Near Old Mapusa Municipality, Mapusa, Bardez-Goa	9923909878	drprasadgoa@rediff.com
76.	Bardez	North	Ashadeep Ayurvedic Clinic	S4, Vaman Smruti Apartments, Near Laxmi	9822714354	mcb2741@gmail.com

Private clinics in North Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
				Narayan Temple, Mapusa		
77.	Bardez	North	Vision Eye Clinic	1204 / A2 Annawaddo Near Novotel Candolim	9552431535	visionplusopticians@gmail.com
78.	Bicholim	North	Govind Clinic	Kamat Building, Bicholim	2362343/9422 062553	drdine@yahoo.com
79.	Bicholim	North	Dr Rajiv K Kamat-Child specialist clinic	Gs - 11, Navanath Chambers, Opposite Shivaji Mainda, Sh 1 Road, Goa- 403504	2362770/9422 440913	drrajiv20@gmail.com
80.	Bicholim	North	Mrs. Dr. Shabana Aga	Muslimwada, Bicholim, Goa	8552976751/9 420687697	dr.shabana@gmail.com
81.	Bicholim	North	Ashvini Pathology Laboratory	G4, Agaji Complex, Opposite Bicholim Bus Stand, Bicholim - Goa	2981115/9822 102524	drprasadnetravalkar@gmail.com
82.	Bicholim	North	Biswas Piles clinic	Agaji Complex, Bicholim, Goa	9422638343	-
83.	Bicholim	North	GLife Cardiometabolic Clinic & Pathlab	Shop No 10 and 16, Sapna Garden, Phase III, Near Old Fish Market, Bicholim, Goa	9096282208	glifegoa@gmail.com
84.	Bicholim	North	Dr. R. M. MulgaoKar	Assnora, Goa	9923132756	Does not have
85.	Bicholim	North	Dr. Umesh R Dhume	Datta Prasad, Assnora, Goa - 403503, Assnora Market, Near Busstand	2215852	N.A
86.	Bicholim	North	Walke's Diagnostic Center	Trinity Apartments, Bicholim, Goa	798218865 9130056795	dr.walkediagnosticcenter@gmail.com
87.	Bicholim	North	Shweta's Clinic	Sanquelim, Goa	9764268780	-
88.	Bicholim	North	Physio Clinic	Opposite Ravindra Bhavan, Gokulwadi, Sanquelim, Goa 403505	8888178808	mamtakarpe@gmail.com
89.	Bicholim	North	Srujan Polyclinic	First Floor, Laxmi Apartment, Opposite Bardez Bazaar, Market Bicholim, Goa - 403504	9765658767	kashishkaustubh@gmail.com
90.	Pernem	North	Ayurclinic Goa	Near Ocean Side Beach Resort, Junos Vaddo, Mandrem 403527	8888307887	dr.rohit@ayurvedagoa.org

Private clinics in North Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
91.	Pernem	North	*Samartha Clinic C/o Dr. Vivek S. Korgaonkar	Dr. Vivek S. Korgaonkar, Madhalawada, Arambol Titho, Pernem Goa	9923655341	dr.vivek269@gmail.com
92.	Pernem	North	Sofiya Clinic	H. No. 248(5), Madhlamaj, Mandrem	937360513 9412597360	sofiyacinic@gmail.com
93.	Pernem	North	Life Line Clinic	Near HDFC Bank, Mandrem	9637470555/9 637471555	dravhi0555@gmail.com
94.	Pernem	North	*Dr. Yoga Yeram	Mahakhajan, Dhargal, Pernem	8999596402	naikyoga2017@gmail.com
95.	Pernem	North	Goa Ayur Care	Near Bhagawati Temple, Deulwada, Mandrem	9923945433	info@ayurcaregoa.com
96.	Pernem	North	Dr. B. G. Talkar	Next to Garima Hotel, Mandrem	9823512140	-
97.	Pernem	North	Sushut Poly Clinic	Pernem Market, Pernem, Goa	8669870034	kannaya.sirsat@gmail.com
98.	Pernem	North	*Dr. Anant Naik	Mandrem Road, Madhalamaj, Mandrem, Goa	2247227	naikaman@gmail.com
99.	Pernem	North	Dr. Rahul Suryawanshi Clinic	Pernem Market, Pernem, Goa	9422064754	srahulp.2008@gmail.com
100.	Pernem	North	*Dr. Tushar Kubal (Physician & Surgeon)	Bhatiwada Morjim Pernem - Goa	9922113303/ 8412847258	kubalTd@gmail.com
101.	Pernem	North	Dr Shirodkar	Pernem Market, Pernem Goa	9422064754	hg.shirodkar@gmail.com
102.	Pernem	North	*Dr. Aquaviva S. Fernandes	Wenzet Cottges Road, Madhlawada Morjim Pernem-Goa	9822124127/ 9168231856	fernandesdent27@yahoo.com
103.	Pernem	North	*Dr. Gayatri A. Palyekar M.B.B,S D.G.O. DNB M.O.Shiroda	Bhomwada Paliem, Pernem Goa	9823772119/ 9309118694	dr.gayatri.sharma15@gmail.com

Private clinics in North Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
104.	Pernem	North	Dr.D.V.Kamat	Near Government Primary School,Morjim	9975857512	No email
105.	Pernem	North	*Dr. Siddhesh S. Parab	Deulwada Paliem, Opp HDFC Bank, Pernem, Goa	9850365633	dr.siddheshparab@yahoo.com
106.	Pernem	North	Dr.Pradeep Korgaonkar	Don Khamb,Dhargal, Pernem	0832-2255594/9421157210	pradeep_korgaonkar@hotmail.com
107.	Pernem	North	Dr.Dataram Shet Gaonkar	Near Vidya Prasarak School, Kattewada,Morjim	9822161194	nalinhgosalia@gmail.com
108.	Pernem	North	Dhanwantari	Near Bhagwati Urban Co-op Society, Kattewada, Morjim	9764316348	kannaya.sirsat@gmail.com
109.	Pernem	North	Ayurvedic Clinic	In front of Village Panchayat Library,Morjim	9405248378	drpoojasalankar@gmail.com
110.	Pernem	North	*Dr. Aswini Naik	Ward 8, Bazarpeth, Pernem	9158468494	Not Giving
111.	Pernem	North	*Dr. Mumbarak Khan, Clinic	H.NO.130 Near Sai mandir,Tamboxem Pernem - Goa	9403562088/0832-2204786	mubskhanz@gmail.com
112.	Pernem	North	*Dr. Devidas Shirodkar	Ward 8, Near Central Bank, Bazarpeth, Pernem	9359199780	doctordevidas@gmail.com
113.	Pernem	North	*Dr. Rupali & Dr. Joseph Fernandes (Physician & Surgeon)	Near Laxmi Mini Market, Mardiwada Morjim Pernem -Goa	9421257540/9423309338	drjoserupali@yahoo.co.in
114.	Pernem	North	*Dr. Sainath Chanekar	643, Mousevada,, Bazarpeth, Pernem	9881063643	sainathchanekar@gmail.com
115.	Pernem	North	*Dr. Amit Naik , Clinic	Temwada Ugavem, Pernem - Goa.	9421250450/8805332575	virashmit@gmail.com
116.	Ponda	North	Dr. Timble Child &Newborn Clinic	Rajdeep Galleria,Above Jos Cabral & Co, Friends Colony, Durgabhat, Ponda, Goa,403401	9226276355 / 7083066344	drtimble@gmail.com

Private clinics in North Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
117.	Ponda	North	Dr.BTS Kakodkar	Opposite YES Bank, Sadar, Khadpabandh, Ponda, Goa 403401	2312054 /940 4756054/9404 756024	NA
118.	Ponda	North	Dr Sandeep A Naik	OfficeNo. 301, Rajdeep Galleria, Above Axis Bank, Ponda,Goa	9890275030	sandy29an@gmail.com
119.	Ponda	North	Dr.Rewas	OfficeNo. 322, Rajdeep Galleria, Above Axis Bank, Ponda,Goa	9168183300	rewadubhashi@gmail.com
120.	Ponda	North	Dr Abhijits Foetal Medicine and Infertility Centre	Heritage Princess Complex, Opposite Almeida High School, Old Busstand, Ponda Goa	7083224953	- dr.abhijitkamat@gmail.com
121.	Ponda	North	Dhanwantri Ayurvedic Clinic	2nd Floor,Heritage Princess, Opposite Almeida High School, Ponda, Goa 403401	2316682	-
122.	Ponda	North	Shree Ayurveda Clinic	Office No 219,2nd Floor, Heritage Princess, Opposite Almeida High School	2316749	Not giving
123.	Ponda	North	Dr. Shastri's Child Care Clinic	2nd Floor,Heritage Princess, OppositeAlmeida School, Ponda Goa,403401	2736491/9422 390417	ramu_shastri@hotmail.com
124.	Ponda	North	Dr. (Mrs)Shradha Singbal Clinic	Singbal Building, OppositeGVM Primary School, Ponda, Goa	2312158/963 7896372	natashasingbal@gmail.com
125.	Ponda	North	Family Care Homeopathic Clinic	At Shirsat Hospital, Tiska, Yashwant Nagar, Ponda, Goa 403401	2325896	-
126.	Ponda	North	Dispensary	No.A-S-6, Ground Floor, Almeida Complex, Durgabhat, Ponda, Goa 403401	2761485	--
127.	Ponda	North	Dr.Kameshwari S.Naik	1st Floor, Next to Goa Diagnostic Lab, Ponda,Goa	2648913/9850 476639	-
128.	Ponda	North	Dr.ParishGhate	MeninoTrade Centre, Opposite Canara Bank, Ponda,Goa	9423882286	parishghate@gmail.com

Private clinics in North Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
129.	Ponda	North	Dr.Amrita Pai Shenoy	Menino Trade Centre, Opposite Canara Bank, Ponda, Goa	9823231656	pai.amrita@gmail.com
130.	Ponda	North	Dr. Santosh P.Naik	Building C, Shetye Plaza, Opposite Municipality Market, Ponda, Goa 403401	2316040/9422 441515	santosh.naik4797@gmail.com
131.	Ponda	North	Bhandare clinic	Building C, Shetye Plaza, Opposite Municipality Market, Ponda, Goa	2224966	frontoffice@healthwayhospital.com
132.	Ponda	North	Sai Krupa Skin Clinic	1st Floor, Prabhu Tower, Upper Bazar, Ponda, Goa	9765982347	-
133.	Ponda	North	Dr.Mrs.Sonia S.Kanekar	Shivam Apartment, 1st Floor, Upper Bazar, Ponda, Goa 403401	2335775	-
134.	Ponda	North	Orthopaedic Clinic & Trauma Centre	Garden View Complex, Friends Colony, Durghabhat, 403401	2312295/9923 487030	antusoares@yahoo.com
135.	Ponda	North	Diya Skin Care Clinic	Khadpabandh, Ponda, Goa 403401	2311148	drakshatapandey@gmail.com
136.	Ponda	North	Skincare Clinic	Shop No. A/8, Menino Trade Centre, Near Federal Bank, Ponda, Goa - 403401	9823231656, 9637433223	pai.amrita@gmail.com
137.	Ponda	North	Dr. Mallya Mohanray V Clinic	1st Floor, Kurtarkar Commercial Arcade, Curti, Ponda, Goa - 403401	2312617/9822 981160	mvmallya@gmail.com
138.	Ponda	North	Eye Clinic	Ground Floor, Central Mansion Building, Near SBI Building, Friends Colony, Durgabhat, Ponda, Goa 403401	2316462/9420 820640	dr.a.g.bandekar@gmail.com
139.	Ponda	North	Yeshwant Clinic	Kamat Building, Mardol Market, Mardol, Goa. 403404.	0832-2343345, 9422437577	drajaypednekar@rediffmail.com
140.	Ponda	North	Dr. Parkars Clinic	Thal, Shiroda, Goa House No. 1136A.	9822981385	ram_parkar@rediff.com
141.	Ponda	North	Sushrushalaya	Sushrushalaya', 24/B, 2nd Floor, Sanatan Ashram, Ramnathi, Bandoda, Ponda-Goa	8805105508	prmarathe@gmail.com

Private clinics in North Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
142.	Ponda	North	Gynae Clinic	A/124, first floor, Heritage Princess, Opposite Almeida Schoo, Ponda, Goa.	09823009556, 9823490124	drpurva1410@gmail.com
143.	Ponda	North	Mshel Polyclinic	Village Panchayat, Tiverem, Orgao,Marcela	9822176142	dr.ajit.mhapne@gmail.com
144.	Ponda	North	Mardolkar Clinic	Veling Priol, Kunkolim Grampanchayat, Mardol, Ponda, Goa, PIN: 403404	9423821177	drghanashyam.mardolkar1@gmail.com
145.	Sattari	North	Ayurvedic Clinic	N 10, Suvidha Santulam Building, Valpoi,Sattari	2374825	-
146.	Tiswadi	North	Trinity Physiotherapy Center	Shop No. 17, Zarina Towers, St.Inez, Panaji-Goa	9765634278	trinityphysiocare@gmail.com
147.	Tiswadi	North	Ayurveda Clinic and Panchkarma Center	Zarina Towers, Next to Dr. Lal Path Labs,St.Inez, Panaji-Goa	9922202117	vdgautam_k@rediffmail.com
148.	Tiswadi	North	Dr. Kukalekar's Get Well Clinic	Shop No. B6-15, Zarina Towers, St.Inez, Panaji-Goa	2423385/9422 447814	kukalekardamodar@gmail.com
149.	Tiswadi	North	Curentum	1st Floor, Zarina Towers, St. Inez, Panaji-Goa	2428777	vyotshna27@hotmail.com
150.	Tiswadi	North	Dr. Viega's Skin Clinic	Shop No.14,Madhuvihar Complex, St.Inez,Panaji	2425701/9823 353835	porvorim@hotmail.com
151.	Tiswadi	North	Dr. Mahendra Kuchadkar	102, Kamat Center, DB Marg, Panaji, Goa	6514043	ortho67@gmail.com
152.	Tiswadi	North	Richfeel Trichology Centre Hair and Scalp Clinic	Dempo Vision, La Campala Colony, Near Magsons Supercenter, Miramar, Panaji, Goa	8369345136	goa@richfeel.com
153.	Tiswadi	North	Dr. Deepika Joshi	Dempo Vision, La Campala Colony, Near Magsons Supercenter, Miramar, Panaji, Goa	8806459248	deepika14@gmail.com/ deepikaj14@gmail.com

Private clinics in North Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
154.	Tiswadi	North	Dr. Digambar Naik	Dempo Vision, La Campala Colony, Near Magsons Supercenter, Miramar, Panaji, Goa	2464422	info@dempohealthcare.com
155.	Tiswadi	North	Dr. Audumbar Netalkar	Bliss Bungalow, Sapna Citadel, Dona Paula 403004	9552666777	info@dempohealthcare.com
156.	Tiswadi	North	Dr. Sadhan Narvekar	A-101, House of Lords, Miramar, Panaji	7709837080	sadhann@gmail.com
157.	Tiswadi	North	Dr. Sharmila Prabhudesai	Dempo Vision, La Campala Colony, Near Magsons Supercenter, Miramar, Panaji, Goa	9890050822	sharmila47@gmail.com
158.	Tiswadi	North	Thali Clinic	2 Aparna, Thali Clinic, A B Road, Panaji - Goa	932668885 2223834	Does not have
159.	Tiswadi	North	Dr. Anupama Kudchadkar	Kamat Centre, First Floor, DB Marg, Panaji - Goa	2235005	anupamakudchadkar@yahoo.co.in
160.	Tiswadi	North	Dr. Flora Miranda	Kamat Centre, First Floor, DB Marg, Panaji - Goa	2421673	drfloramiranda@rediffmail.com
161.	Tiswadi	North	Dr. Sandeep Sanzgiri	Kamat Centre, First Floor, DB Marg, Panaji - Goa	9422389379	sandeepsanzgiri@gmail.com
162.	Tiswadi	North	Dr. Ganesh Bhatkuly	Sunivas, St. Inez, Panaji-Goa	2226076/9822 584344	Does not have
163.	Tiswadi	North	Dr. Prabhu Desai's Clinic	1st floor, Star Apartments, St. Inez, Goa	2227662/9822 166065	dr.pspdesai@yahoo.com
164.	Tiswadi	North	Dr. Batra's Healthcare Clinics	Sushila Building, 11/45/24C, A Wing, 18th June Road, Panaji - Goa	6715100	admin-go@drbatras.com
165.	Tiswadi	North	Dr. Milind Homeopathy Healthcare	Opposite Titan Showroom, 18th June Road, Panaji - Goa	8308813881	drmilind81@gmail.com

Private clinics in North Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
166.	Tiswadi	North	Dr. Dubhashi's Clinic	F.F/07, Navelcar Arcade, A Wing, AB Road, Panaji, Goa	8459882746	umadubhashi@rediffmail.com
167.	Tiswadi	North	Dr. Anjana's Children's Clinic	Model's Exotica, Near Grandis Furniture, St. Inez, Panaji-Goa	7083412402	dranjanacclinic@gmail.com
168.	Tiswadi	North	Dr. Supriya Kamat	1 st floor, Shabana Chambers, Opposite Poshak, Panaji - Goa	9881313580	supriyasaanvi79@gmail.com
169.	Tiswadi	North	Dr. Netravalkars	Rizvi Sadhan, Near Panaji Market, Panaji - Goa	6642504	ashwini labpanaji@gmail.com
170.	Tiswadi	North	Urology Speciality Clinic	Rizvi Sadhan, Near Panaji Market, Panaji - Goa	9822393336	gsgill62@icloud.com
171.	Tiswadi	North	Cutis Skin Clinic	Rizvi Sadhan, Near Panaji Market, Panaji - Goa	2420583	vikasdermatology@yahoo.com
172.	Tiswadi	North	Dr. D.B. Bhandare	Shivram Apartments, D.B. Road, Panaji - Goa	9823037909 2423811	deep.bhandare@gmail.com
173.	Tiswadi	North	Dr. Rajan Mahatme	Shivam Apartments, DB Road, Panaji - Goa	9823239933/2 227022	Does not have
174.	Tiswadi	North	Clement Homeopathy Clinic	G-51, Alfran Plaza, Panaji - Goa	9673854554	josefilipdias@gmail.com
175.	Tiswadi	North	Predictive Homeopathy	F- 58, Alfran Plaza, Panaji-Goa	2223084	predictive.goa@gmail.com
176.	Tiswadi	North	Wisdom Health Care	F-12, Gurudatta Apartments, Near Don Bosco, Panaji - Goa	7420988088	vardhan-bhobe@yahoo.com
177.	Tiswadi	North	Dr. Oscar Rebello	112, Kamat Centre, DB Marg, Panaji, Goa	9822160493	docoscar@rediffmail.com
178.	Tiswadi	North	Ear Nose and Throat Clinic	Mahalaxmi Chambers, 18th June Road, Panaji-Goa	9822689006	vivnita1979@yahoo.co.in
179.	Tiswadi	North	Dr. Sushma Kirtani	Mahalaxmi Chambers, 18th June Road, Panaji-Goa	9822123198	drkirtani@gmail.com
180.	Tiswadi	North	Dr. Chitranjali Naik's Ayurved Clinic and Pharmacy	Shop No. 3, A-1, Jairam Complex, Neurg Nagar, Mala, Panaji-Goa	9545350677	drchitranjalinaik87@gmail.com
181.	Tiswadi	North	Homeopathy Clinic	G-18, Jairam Complex, Neugi Nagar, Panaji	9822986243	dr.rahuldentalcare@yahoo.co.in

Private clinics in North Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
182.	Tiswadi	North	Dr. Rufino's Clinic	La Marina-I Society, Miramar, Panaji, Goa	9822100328/ 2463086	dr.rufi@gmail.com
183.	Tiswadi	North	WESS Clinic	Ground Floor, Joenette Apartments, Off, Dayanand Bandodkar Marg, Opposite Public Park, Next to Marriot, Miramar, Panaji, Goa	2464411	wess.goa@gmail.com
184.	Tiswadi	North	Dr. Hirendra Kumar	Rajanigandha Apartments, LaCampala Colony, Miramar-Goa	2463322	kumar.hirendra@gmail.com
185.	Tiswadi	North	Dr. Sheela Kumar	Rajanigandha Apartments, La Campala Colony, Miramar-Goa	2463322	kumar.hirendra@gmail.com
186.	Tiswadi	North	Dr. Brenda Nazareth Menezes	Minezee Restaurant, Miramar-Goa	2463023/9326 162096	drbrendamenezes@gmail.com
187.	Tiswadi	North	Dr. Ajit Kamat	Kamat Hospital Building, D.B. Road	2465482/9822 122468	ajkamat@rediffmail.com
188.	Tiswadi	North	Dr. Meena Bhadauria	B-F/6, Campal Trade Centre, Behind Military Hospital, Campal, Panaji-Goa	2426519/9822 677827	meena_bh@hotmail.com
189.	Tiswadi	North	Dr. Bossuet Afonso	BF-7, Campal Trade Centre, Behind Military Hospital, Campal, Panaji-Goa	9822487274	drbossuetclinic@gmail.com
190.	Tiswadi	North	Dr. Jocelyn De Sousa	B-S/8, Campal Trade Centre, Behind Military Hospital, Campal, Panaji-Goa	9822132463	dr.j.dsouza@gmail.com
191.	Tiswadi	North	Dr. K.K.Sanzgiri	B-F/10, Campal Trade Centre, Behind Military Hospital, Campal, Panaji-Goa	9326120439	drkksanzgiri@yahoo.com
192.	Tiswadi	North	Dr. Harish Peshwe	B-F/7, Campal Trade Centre, Behind Military Hospital, Campal, Panaji-Goa	9822487274	harishpeshwe@gmail.com
193.	Tiswadi	North	Dr. Lucio Fernandes (practices at trinity n manipal)/meena bhadouria (practices at clinic)	B-F/6, Campal Trade Centre, Behind Military Hospital, Campal, Panaji-Goa	2426519	luciomeena@gmail.com

Private clinics in North Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
194.	Tiswadi	North	Dr. V.N Jindal Clinic	B-S/14,Campal Trade Centre, Behind Military Hospital, Campal, Panaji-Goa	9422456100	jindalvn@gmail.com
195.	Tiswadi	North	Dr. Rajendra Bapat	Campal Trade Centre, Behind Military Hospital, Campal, Panaji-Goa	9767262799	rajbapat@gmail.com
196.	Tiswadi	North	Dr. Edelweiss Desa	Campal Trade Centre, Behind Military Hospital, Campal, Panaji-Goa	2422688/9860830316	edel.desa@gmail.com
197.	Tiswadi	North	Dr. Mahesh Amoncar	Vaglo Vision, Opposite Urban Health Center, Ozari-Panaji	98221025906644084	mxamoncar@gmail.com
198.	Tiswadi	North	Dr. Lourito Menezes	1st floor, Kamat Chambers, Panaji-Goa	2237574/9881737490	mateuscom@dataone.in
199.	Tiswadi	North	Dr. Laxmi Gaunekar	Nauguendra Bal Shushrushekya, St. Inez, Caranzalem, Goa	2223351/9822165870	laxmigaunekar@yahoo.co.in
200.	Tiswadi	North	Shriram Clinic	Despamount Building, Near Caculo Island, Panaji-Goa	3092671989049041	dr_laxmanparab@yahoo.co.in
201.	Tiswadi	North	Madhavbaug	2nd Floor, Zarina Towers, C Block, St. Inez, Panaji-Goa	9326166966	drsuvarnapol@gmail.com
202.	Tiswadi	North	MAAC - Aditya Minimal Access Surgical Clinic	Glass Towers, Opposite Traffic Cell, Panaji-Goa	9423889002	savaikars@gmail.com
203.	Tiswadi	North	The Asthma Allergy and Chest Center	107, 1st floor, Kamat Metropolis 1, St. Inez, Panaji-Goa	9527435925	goapulmo@gmail.com
204.	Tiswadi	North	Health and Wellness Consultants	T.R. Mansion, St. Inez, Panaji-Goa	2223111	expertchemists.healing@gmail.com
205.	Tiswadi	North	Dr. Sanjay Khope	Zarina Towers, St Inez, Panaji-Goa	2702953/9422395916	sk@drsanjaykhope.com
206.	Tiswadi	North	Devki Clinic	1st floor, Meera Apartments, St. Inez, Panaji-Goa	2424684/9049343251	tarrakhadpe@yahoo.com
207.	Tiswadi	North	Sriram Clinic	Behind Skoda Showroom, Taleigao-Goa	2227956	dr_laxmanparab@yahoo.co.in

Private clinics in North Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
208.	Tiswadi	North	Dr. Mariano Godinho	Godinho Medical Center, Caranzalem-Goa	9823190011	msigodinho2@gmail.com
209.	Tiswadi	North	Jayashree Homeopathic Healthcare Clinic	Sabnis Monarch 2, Caranzalem-Goa	7020100858	jayshreeth@gmail.com
210.	Tiswadi	North	Yoga Therapy Clinic	Vasant Vihar, Taleigao-Goa	6632104	drsksaikar@hotmail.com
211.	Tiswadi	North	Dr. Clovis Pinto	H.no.825, Marod, Santa Cruz,Goa	9881072308	Does not have
212.	Tiswadi	North	Anthony Gonsalves Bone Setter	Cabesa Ward, Santa Cruz, Goa	7083077688	wilbur.gonsalves@gmail.com
213.	Tiswadi	North	Youthful Secrets	101, Durga Chamber, 1st Floor, 18th June Road, Near Bombay Bazar, Panaji, Goa	9152637762	youthfulsecretsgoa@gmail.com
214.	Tiswadi	North	Dr. Ritisha Kenkre	Atmaram Commercial Complex, Ground Floor, Atmaram Borkar Road, Opposite Tata Motors, Near Mahalaxmi Temple, Panaji, Goa	2222671	-
215.	Tiswadi	North	Dr. Madhav Wagle	1st floor, Om Datta Sadhan, AB Road, Panaji-Goa	2220217/9422442636	madhavagle@yahoo.co.in
216.	Tiswadi	North	Dr. Neelesh Korde	1st floor, Om Datta Sadhan, AB Road, Panaji-Goa	2220127/9422018752	drneeshkorde@gmail.com
217.	Tiswadi	North	Aumeo Clinic	Durga Chambers, Above world of Titan,18 June road, Panaji	8805947505	drvsgadekar@gmail.com
218.	Tiswadi	North	Dr. Sushma Kirtani	212, Mahalaxmi Chambers, 2nd Floor, 18th June Road, Panaji, Goa	9822123198	drkirtani@gmail.com
219.	Tiswadi	North	Correia Clinic	1st floor, Sea Gull Apartments, Panaji, Goa	9689973060	endocrinologygoa@gmail.com
220.	Tiswadi	North	Loocs Cosmetic Clinic	S-10, Grand Landscape, Panaji-Goa	9130701787	pritesh.monarchhealth@gmail.com
221.	Tiswadi	North	Criticare	2 nd floor Opposite Parade Ground Campal,Panjim	22292156511770	criticarevg@gmail.com
222.	Tiswadi	North	Dr. Arnold Fernandes	Near Post Office, Malvara, Agassaim	9823099215	dr.arnald.@gmail.com

Private clinics in North Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
223.	Tiswadi	North	S. Skin Clinics	D. B. Road, Panjim, Goa – 403001	0832 - 2220616	-
224.	Tiswadi	North	The Cosmetic Surgery Institute	Campal Hospital, Panjim, Goa - 403001, Opposite Parade Ground, Near Bal Bhawan	0832-2230240, 9821009038 9819776707 9870155540	drmohamthomas@gmail.com
225.	Tiswadi	North	Dr. Dubhashi's Clinic	F-07, Navelkar Arcade, Near T&A, Dr. Atmaram Borkar Road, Panaji, 403001	0832 – 6520885 9823024354	vishaldubhashi@rediffmail.com
226.	Tiswadi	North	Hi-Tech Cosmetic & Hair Weaving Centre	Fr/106, 4th Floor, Cardoza Building, Above Paulo Travels, Near Kadamba Bus Stand, Panaji Market, Goa - 403001	0832 - 2438568, 2234268	bcchheetry@yahoo.in
227.	Tiswadi	North	Esperanca Clinic	Cartias Complex Cartias, Goa Holiday Home, Near Caculo Circle, St Inez, Miramar, Goa - 403001	0832 - 2464646, 2463185, 2463890	drkiran@tailwaggerz.net
228.	Tiswadi	North	Dr. Bhoje Polyclinic	Malvara, Agassaim, Goa - 403000	0832 - 2218515	doctorboby@hotmail.com
229.	Tiswadi	North	Dr. Alka Prabhudesai	F3, Shabana Chambers, Opposite Poshak, Panaji - Goa	2225699	NA
230.	Tiswadi	North	Dr. Ulhas Kaisare	Shivam Apartments, D.B. Road, Panaji - Goa	2226517	kaisareulhas@gmail.com
231.	Tiswadi	North	Dr. Ajay Vaidya	Mahalaxmi Chambers, 18th June Road, Panaji-Goa	2226965/9422 057919	ajaymvaidya@gmail.com
232.	Tiswadi	North	De Sousa Clinic	Campal Trade Centre, Behind Military Hospital, Campal, Panaji-Goa	2424114 9822147336	ndesousa@rediffmail.com
233.	Tiswadi	North	Ghanekar Clinic	Opposite New Pato Bridge (Near Head Post Office), Panaji-Goa-403001.	9822487609/ 9850470749	drsitgh@gmail.com

Private clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
234.	Canacona	South	Dr Molu K. Desai	Next to Vijaya Medical Stores, Chaudi, Canacona 403702	2643134	Does not have
235.	Canacona	South	Damodar Clinic	Opposite Vijaya Medical Stores,Chaudi,Canacona	2643321	NA
236.	Canacona	South	Dr. Emmanuel Gracias Clinic	First Floor,Anandi Building,Chaudi,Canacona	7083214109/ 7720880161	emmanuelgraciasmd@gmail.com
237.	Canacona	South	Dhanvantari Clinic	Opposite Post Office, Chaudi, Canacona	24305557/758 8487016	NA
238.	Canacona	South	Dr Suresh Vinayak Mahale	126 /7, Vadamol Shristal, Canacona,Goa	2633217	drgaitondesaurabh@gmail.com
239.	Canacona	South	Dr Mirashis 5 Elements Clinic (Ayurveda)	Swastik Heights,Nagarcem, Canacona	2633217/9923 391896	directors@shayanag oa.com
240.	Canacona	South	Dr B.V. Pavaskar	Char Rastha,Mashem, Canacona	2640322/992 3764990	bvpavaskar@gmail.c om
241.	Canacona	South	Shetty Eye Clinic	Manoraj Diva Building,Chaudi,Canacona	2644057	harishhegde40@gma il.com
242.	Canacona	South	* Dr. S. R. Naik Gaonkar	Chaudi,CanaconaGoa	9823100644	drshaba48@gmail.co m
243.	Mormugao	South	M.M mesquita Eye and Pediatric Hospital	Julieta Building,Vasco da Gama,403802	2513696 9822980303	drwilfredmmesquita@gmail.com
244.	Mormugao	South	Dr.Vandana Tanksale	Vasco da Gama, Vaddem,Goa 403802	9689158583	NA
245.	Mormugao	South	Dr. Vaidya's Laparoscopic and General Surgeon	C/o Apollo Victor Hospital,Margao, Near Margao Police Station	2501419 98450579455	yatinvaidya@yahoo. com
246.	Mormugao	South	Dr.Satish Khandeparker	19,1st Floor,Apna Bazar,Near Court Building,Vasco,Goa 403802	2512108/9822 168275	drsatischkgoa00@gma il.com
247.	Mormugao	South	Maruti Clinic	Devashri Darshan,Mangoor,Vasco da Gama,Vasco	9764003754	NA
248.	Mormugao	South	Dr.Kamat's Nursing Home	OppositeMunicipal garden,Swatantra path,Vasco	Dr.Uma Kamat 7507686820 9420419990	NA

Private clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
					2512354	
249.	Mormugao	South	Dr.Rajiv V. Pawar	ShopNo.5,Devashri Darshan,Vasco da gama,Opposite telephone exchange,Vasco	94220 59660	NA
250.	Mormugao	South	Dr.Batra's Positive Health Clinic Pvt. Ltd	Shops 1-5 and 7,1 st floor, Karma Paes Avenue,fl Gomes Road,Vasco	6620321	info@drbatraspetcar e.com
251.	Mormugao	South	Dr.Domnic Fernandes	Ground floor,Aryan plaza buildg,near fish market.	9850463741	NA
252.	Mormugao	South	Dr. R.V Deo	Syndicate Bank building, 1 st floor ,Vasco da gama	2511672	dr.r.r. deo@gmail.com
253.	Mormugao	South	Dr Akashdeep Arora	Ground Floor, Anthony Building, Near Max Mall, Vasco	2511222/9823 559033	akasharora85@hotmail.com
254.	Mormugao	South	Dr.Kirti's Homeocare	S Bandekar building,Swatantra path, Near Tourist Hostel,Vasco	2514883	NA
255.	Mormugao	South	Desai's Clinic	2, Placiano Apartments Opp, Baina, Vasco da Gama	7020969761	NA
256.	Mormugao	South	Dr.Vijay Kumar - Family Physician	Flat No 6, Gaur Apartments Vasco	9326863527	NA
257.	Mormugao	South	Mata Clinic	Shop no.2,Maharana Pratap buildg, gurudwara road, mangor hill ,Vasco.	7798110378	ashok_12377@rediff mail.com
258.	Mormugao	South	Dr.Savio de Pinto Souza	Next to Desterro Church,Swatantra path,Mormugao,Vasco 403802	2225699 /982 3072552	drsavio79@gmail.co m
259.	Mormugao	South	Dr.Shrihari Ramani	7 Raghunath Apartments,Francisco Luis Gomes Road,Vasco da Gama,Vasco 403802	2513541/9922 701645	shrihariramani@gmail.com
260.	Mormugao	South	Dr Parulekar's Eye Site	House No. 179-D, Alto Dabolim, Boghmalo Diversion, Dabolim, Vasco, Goa 403801	6483547/ 9822789909	parulekareyesite@gmail.com
261.	Mormugao	South	Prakash Eye Hospital	1stFloor, Prime Complex, Opposite KTCBusstand, Vasco, Goa 403802	9325023054, 0832-2516701	prakasheye1@gmail.com
262.	Mormugao	South	Dr. Pradeep	1st floor, Monteiro Building, Opposite main market,	2512066,	pradeep.borker@gmail

Private clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
			Borker	Swatantra Path, Vasco-da-Gama, Goa 403802	9422642617	ail.com
263.	Mormugao	South	Dilip Prabhu Clinic	Near Municipal Garden, Baina	9890474079	paresh.popat@gmail.com
264.	Mormugao	South	Dr. S M Lawande	2 Khalap Mansion, Opposite Punjab National Bank, Vasco da Gama, Goa 403802	9226578266	isham6666@gmail.com
265.	Mormugao	South	Dr Parag Sawant's ENT Clinic	Shop No 24, 1st Floor, Karma Point Building, Vasco, Goa.	7057974655/ 9168365445	drparagsawant@gmail.com
266.	Mormugao	South	General Practicer	Shop number 7, Lotus Apartment, F.L.Gomes Road, Vasco, 403802	9975822422	induthakur94@tahho.com
267.	quepem	South	Dr Atchut R. Kakodkar	1st Floor, Muncipal Market, Vodlemol Cacora, Goa	2650273/9822 183645	dr.atchutkakodkar@gmail.com
268.	quepem	South	Dr Mrs Seema TDiwani	Below Curchorem Municipal Council	2605234/9822 485043	drseema.diwani@gmail.com
269.	quepem	South	Dr Anil S Kakodkar	Ramalaya Building,Curchorem	9423058383	anilkokodkar52@gmail.com
270.	quepem	South	Dr Sunanda N Bhangi	Church Road,Curchorem,Goa	2605730 /985 0466321	Does not have
271.	quepem	South	Paarth Diagnostic Lab and Occupational Health Center	Opposite Dr. Sonu Kamat Hospital, S/2, S/3, Ashiyan Apartment, Durganand Nagar,Curchorem,Goa	2650005/9822 134768	kparesh@hotmail.com
272.	Quepem	South	Dr Bhisso VShetgaunker	Jenasco Building, Near Syndicate Bank,Curchorem	9823682255	kpreshe@hotmail.com
273.	Quepem	South	Vidhishree Ayurvedic Clinic	Disha Classic Building, Above Monginis, Behind HDFC Bank,Quepem, Goa	8411068584	-
274.	Quepem	South	Homeopathic Consultant Dr Sonia K Naik	Ground Floor,Dhasaha Clinic Building, Quepem	8605133816	Does not have
275.	Quepem	South	Saint Health Care Clinic	Shop No. D-6, Mata Apartments, Tilamol, Quepem	9545477687	sthealthcare@gmail.com

Private clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
276.	Quepem	South	Dr. Vasudev Y Mopkar Memorial Clinic	Cuchorem, Goa - 403706	9822485313	Does not have
277.	Quepem	South	Avis Eye Clinic& Opticians	3, Gurudev Mansion, Curchorem, Goa, Goa - 403706	0832 – 2652827 9325023054	prakasheye1@gmail.com
278.	Quepem	South	Dr.Jorson Fernandes ENT Clinic	Address:AOF17, Venkatesh Chambers, Bebquegal, Curchorem, Goa	9822101334	drjorsonferns@gmail.com
279.	Quepem	South	Clinic	Clinic of Dr. Deepak D. Lotliker, Ground Floor, Lotliker Building, Near Bridge, Quepem, Goa.	9922932365, 0832-2662395.	drlotliker@gmail.com
280.	Quepem	South	Dr Sankaw's Clinic	Carmelina Building, 1st Floor, Above Ajit Pharmacy, Quepem, Goa	9822482616/0 8322662006	arunsankaw@gmail.com
281.	Salcete	South	Dr Chitra D Lotlikar	F-7,First Floor,BWing,Paramount Shopping Complex,Behind Apollo Pharmacy,Navelim, Goa	2428041/9420 687084	chitralotlikar@gmail.com
282.	Salcete	South	Dr. Tanuska Pereiera	Navelim Salcete Goa	0832-2732432	melba.skincareclinic@gmail.com
283.	Salcete	South	Dr. Sasmit Dipak Lotlikar	Mandopa Navelim Salcete Goa	9960750644	-
284.	Salcete	South	Dr. Dennis I. Vas	H.No 311,Voll zamcotto,Dramapur,Salcete, Goa	2765594/7517 459715	danielvas86@icloud.com
285.	Salcete	South	Dr Luellada Piedade Afonso	Nagwaddo Betalbhatim Salcete Goa	8805119137/0 832-2880386	-
286.	Salcete	South	Kuki-care Poly Clinic	Colva Parish Hall,Near Colva Church,	8806728457	-
287.	Salcete	South	Dr. Umesh Panandiker Clinic	Green House,Colva,Near Police Station	2788391	pkpathak0@gmail.com
288.	Salcete	South	Dr. Elvis J. Mascarenhas	Teofilo Memorial Clinic, House No 68, Olinda House,	9821170108	dr.elvismascarenhas@gmail.com

Private clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
			Clinic	Colva		
289.	Salcete	South	Dr. Myron Ferrao Clinic	Ferrao State Complex, Colva, Goa	9403752610	-
290.	Salcete	South	Dr Joanne Tavares	Vanelim Colva Salcete Goa	0832-2781041	joannetavares76@gmail.com
291.	Salcete	South	Dr. Suyasha Raghuvanshi	Merces Building Colva Salcete Goa	8014445999/ 9926563317	
292.	Salcete	South	Siddarth Ved Prakash	ASH-4, Imperial Garden Behined Village Panchayat Cana-Benaulim Salcete Goa	7350577220	sidh.health@gmail.com
293.	Salcete	South	Dr Pritesh Raikar	Mazil waddo Beach Road Cana- Benaulim Salcete Goa	9921880616	-
294.	Salcete	South	Dr. Martins	-	7798679010	-
295.	Salcete	South	Dr. Redker Clinics	Demello Waddo, Church Road, Carmona Goa	2702266 9881284499	redkardamodar@yahoo.com
296.	Salcete	South	Dr. Sharlin Gracias Clinic	H. No 287, Fondo Ward Carmona, Goa 403717	9657480967	sharlingracias@gmail.com
297.	Salcete	South	Dr. Hugo Viegas Clinic	Carmona, Salcete, Goa 403717	2844766/9822 183099	NA
298.	Salcete	South	Dr. Anant N. Pai Angle Clinic	H. No 276, Ambelim, Assola, Salcete, Goa	2773209	apaiangle@yahoo.co.in
299.	Salcete	South	Dr. Pradeep Clinic	Church compound, Velim, Goa	2773251	-
300.	Salcete	South	Dr. Shrinivas s Desai Clinic	Near Post Office, Cuncolim, Salcete, Goa	9922647323	shriniwasdessai1@gmail.com
301.	Salcete	South	Dr. Menezes Multi-speciality	Salvi Building, Ground Floor, Near Petrol Pump, Canacona Highway Road	9890409494	dr.allwyn@yahoo.co.in
302.	Salcete	South	Dr. Prakash Naik Kurade Clinic	H. No 46, Near Laxmi Mandir Savarkotta, Cuncolim, Goa	2763241/9822 152932	chitrakurade@gmail.com
303.	Salcete	South	Dr. Satish K. Phal Dessai	Shop no 11, Cuncolim Municipal Hall, Opposite Petrol Pump	2866296/9822 176277	ssaattish@gmail.com

Private clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
304.	Salcete	South	Dr Anil V. Pai Raikar	Madicotto,Near HDFCBank, Cuncolim Bazaar, Cuncolim	2866315	-
305.	Salcete	South	Dr. M.S.D Prakash Clinic	APJ Clinic Gulleacotto Cuncolim Salcete Goa	9923269472	-
306.	Salcete	South	Dr. D. R Lotlikar	D/F7 Pancharatna complex,Near Borkars Super Store, Margao,Goa	2702199/ 9860603089	drlotlikar@gmail.com
307.	Salcete	South	Dr. Veena Kantak	D/F3,Pancharatna Complex,Near Borkars Super Store	2513539/9822 987974	veenahgd@yahoo.co .in
308.	Salcete	South	Dr. Rajendra Hegde	H.No. 2652, Kupangale Gogol, Fatorda	2714948/9822 128392	rajendranagar@g mail.com
309.	Salcete	South	Dr. Prakash S. Prabhu Desai	AF1, Pancharatna Complex, Near Old tempo stand, Martires Dias Road, Margao Goa	2715512/9822 166065	drpspdesai@yahoo.c om
310.	Salcete	South	Dr. Piedade Clemente	Cf-11, Pancharatna Complex, Martires Dias Road, Margao,Goa	9765816614 / 9422061021	piedadeclemente@y ahoo.co.in
311.	Salcete	South	Dr.Amala Kamat	Ashok Building, Jose Inacio Loyola Road, Margao Goa	2702878/9422 063810	dramkam@rediffmail .com
312.	Salcete	South	Dr. V.V.Kamat	Ashok Building,Jose Inacio Road, Margao-Goa 403601	2702878	-
313.	Salcete	South	Dr.F.C colaco	David Building,Near Bank of India,Jose Inacio Loyola Road, Margao, Goa	2732318 /982 3190318	drcolaco23@yahoo. com
314.	Salcete	South	Ashirwad Homoeopathic Clinic	David Building,Near Bank of India,Jose Inacio Loyola Road, Margao, Goa	95273472242	-
315.	Salcete	South	Dr Sandeep M. Dhavalikar	2nd Floor,Rajadhyax Tower,Opposite Old Fish Market, Margao,Goa	2734646/9326 103339	hospdhav1999@redi fmail.com
316.	Salcete	South	Sri Sri Krupa Clinic	Belavista Building, Opp Canara Bank, Margao, Goa	2703700	srisrikrupa@gmail.co m
317.	Salcete	South	Dr.Siddhesh Talauliker	O-10, Sheeshmahal, 1st floor, Above Monginis,Near Loyola High School, Comba, Margao, Goa	2712124/9822 177022	drsiddheshtalauliker @gmail.com

Private clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
318.	Salcete	South	Dr Rajesh Kambli	Sheeshmahal, 1st floor, Above Monginis, Near Loyola High School, Comba, Margao, Goa	2713808/9923 243809	rajeshkambli1@yahoo.com
319.	Salcete	South	Dr. Marwin Alberto	Office No. 13,O-10, Sheeshmahal, 1st Floor, Above Monginis, Near Loyola High School, Comba, Margao, Goa	27132326/982 2124527	marwinalberto@yahoo.co.in
320.	Salcete	South	Dr Bansi V.N. Khaunte	1 st Floor,Shivnery,Comba, Margao, Goa	2733108/8860 036266	bansikhaunte@gmail.com
321.	Salcete	South	Dr. Sharmad Kudchadkar's AdvancedUrology and Laproscopy	F3, First Floor,Regency Plaza,Near Popular High School,Opposite Café Coffee Day, Next to Achiever's Gym,Comba,Margao,Goa 403601	2432307/8975 865332	sharkz3333@yahoo.com
322.	Salcete	South	Dr Nilkanth A.S. Malkarnekar	Office No. 3 First Floor, Vasant Arcade,Near Popular School,Comba,Margao	7798268989	Not giving
323.	Salcete	South	Dr. Kapil Prabhu Desai	First Floor, Vasant Arcade,Dcosta Road,Comba, Margao, Goa	2710386/9158 318332	to.kapil83@gmail.com
324.	Salcete	South	Dr Clifton Fernandes	2nd Floor,Colaco A Building, Comba Margao, Goa,Abade Faria Road	2734869/9423 055349	ctliferns67@gmail.com
325.	Salcete	South	Dr. Ryan Dias	1st floor Block B,Colaco Residency,Off Abade Faria Road,Comba, Margao	2735715	-
326.	Salcete	South	Padma Spine and Pain Centre(Dr venkatesh Nevagi)	1st Floorm,Office No. 101,Rajnil Royal, Near Classic Hospital,Malbhat, Margao	2726876/9158 490598/98231 99098	vnevagi@yahoo.com
327.	Salcete	South	Dr.Alwyn F. Cabral	1st Floor, FO-47 Baby Com Centre,Behind Big G,Pajifond, Margao, Goa	2736932	info.goa@painclinico findia.com
328.	Salcete	South	Kripa Homeopathic Clinic	Opposite Carmelite Monastery, Vishant Road,Aquem, Margao Goa	2702058	NA
329.	Salcete	South	Dr. Sandeep R. Fowkar	Shop No. 1,Ground Floor, Rosemin Arcade Near Vishant Theatre,Aquem,	2728888/9823 175544	sandeepfowkar@yahoo.com

Private clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
				Margao		
330.	Salcete	South	Dr.Saroj J.Raikar	JB apartments, Near Pastry Palace, Pandav Chapel,Aquem, Margao Goa	2735102/9096 661577	-
331.	Salcete	South	Dr. K.K Hegde	Rosary Complex, OppositeRosary High School Navelim Goa	2768751/9420 655104	kripaksh@yahoo.co m
332.	Salcete	South	Dr Gajanan V. Hegde	68,Mudgoan,Near Rosary College,Navelim,Goa 403729	2734961/9860 015528	gajananhegde26@g mail.com
333.	Salcete	South	Dr. Mrs Lorraine Dias Benjamin	F7 First Floor,Paramount Shopping Complex,Behind Apollo pharmacy Navelim, Goa	2728097	-
334.	Salcete	South	Dr Max de Lolya Futardo	Near Chinchinim Church, Next to Post Office,Chinchinim Salcete, Goa	2863266/9822 131187	maxlfurtado@gmail. com
335.	Salcete	South	Dr Elesaberth Lacendra Homeopathic clinic	Chinchinim - Orlim Road, Chinchinim Salcete Goa	9850090996	elisabethlacendra19@gmail.com
336.	Salcete	South	Dr. Joline A . Fernandes	A-Sacranton Enclave, Above Crystal Interiors,58 Ratvaddo Navelim Goa	2728282/9764 240528	jolinefernandes@ya hoo.com
337.	Salcete	South	Dr. P.S. Shah	F-3, Kamat, Complex-B, Opposite Bajaj Showroom, Colmorod, Navelim, Margao,	9922535437	drshah.immunologis t@gmail.com
338.	Salcete	South	Dr. Sudhir M. Shet	Kenyan Apartments Co-Op. Housing Society Limited, Ground Floor,Behind Canine Creek, Colmorod, Navelim, Goa	8007485505	dr.sudhirshet@gmail .com
339.	Salcete	South	Dr. Joline A. Fernandes	Sh-2, Dream Emerald Building,Behind Rosary College of Arts and Commerce,Navelim, Goa	9764240528	jolinefernandes@yah oo.com

Private clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
340.	Salcete	South	Shree Acupressure and Wellness Centre	Shop No 7, Dream Emerald building, Behind Rosary College of Arts and Commerce, Navelim, Goa	9152696748	sadashivmpatil@rediffmail.com
341.	Salcete	South	Dr. Kepkars Clinic	F-06, Sapana Chamber's 1st floor, Opposite Reliance Trade Centre, Margao Goa	2725725/9422390548	drkamleshkepkar@gmail.com
342.	Salcete	South	Dr. Kossambes Child Clinic	First Floor, Sapna Plaza, Behind Grace Church, Comba	2704771/9822688057	sarveshkossambe@gmail.com
343.	Salcete	South	Dr. Joline's Clinic (Homoeopathy diet Naturopathy)	Shop .no 16, Ground Floor, Shree Ganesh Apartments, Near Common Wealth Developers, Opposite Jade Blue, Murida Fatorda Goa	9764240528	jolinefernandes@yahoo.com
344.	Salcete	South	Dr. Asha R. Karekar	F-4, First Floor Anita Apartments Co-op Housing Society Limited Murida Fatorda Margao Goa	9822138562	ramakantkarekar08@gmail.com
345.	Salcete	South	Kids Care Clinic	Perry's Arcade Ground Floor Opposite Sharda Classic Restaurant Murida Fatorda Margao Goa	9112008415	suvarnanaik123@gmail.com
346.	Salcete	South	Shree Mahalaxmi Ayurveda Clinic and Panchkarma Centre	Akshadeep Apartments 1st floor Opposite Little's Pre-Primary and Primary School, Murida Fatorda Margao Goa	9860885522	drsonalsawant13@gmail.com
347.	Salcete	South	Healing Touch Physiotherapy Clinic	Shop no.08 Near Fatorda Post Office, Rosary Church Complex, Fatorda Margao Goa	9637214069	-
348.	Salcete	South	Touch and Cure Wellness Private Limited Ayurvedic and Naturopathy Centre	Aziza Majil Ground Floor, Near Jawaharlal Nehru Stadium, Opposite Season Hotel, Fatorda, Margao, Goa	2741998	-
349.	Salcete	South	Dr Agnita N Kamat	Shop no 26, 1 st Floor Vasant Arcade Building, Behind Police Station Comba Margao-Goa	9922245819	agnita1988@yahoo.co.in

Private clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
350.	Salcete	South	Shree Vyankatesh Aayurved	Shop no 3, Ground Floor, Building-A, Loloya Co-op Housing Society, Bolepand, Ambaji, Fatorda, Goa	9923852395	surhapaplekar@gmail.com
351.	Salcete	South	Al-Safa Clinic	Next to Procure Medical Store, Jasmine Complex, Chandrawado, Fatorda Goa	2742884/9970 192681	ash621073@gmail.com
352.	Salcete	South	Dr. Milind Desai	Shop.No 104 First Floor, The Court -Crossroads Elite, Eastern Bypass, Arlem, Fatorda Goa	7264946524/8 806381807	archanadesai205@gmail.com
353.	Salcete	South	Pediatric and Neuro speciality Clinic	10A, 1st Floor, Crossroads Avenue, Commercial Plaza, Margao Bypass, Arlem, Margao, Goa 403602	2743262	contact@pediatricneuro.in
354.	Salcete	South	Dr. Belani's Blue Shield Medical Clinic	1st Floor, Crossroads Avenue, Commercial Plaza, Margao Bypass, Arlem, Margao, Goa 403602	2749951	goa@bsmc.in
355.	Salcete	South	Dr. Haresh G. Sahijwala's Medical Centre	3rd Floor, Crossroads Avenue, Commercial Plaza, Margao Bypass, Arlem, Margao, Goa 403602	2741453	mail@drharesh.com
356.	Salcete	South	Dr. P. D. Nachinolkar	Right side Chowgule College, Opposite Suzuki service centre	9422453648	pnachinolkar2@gmail.com
357.	Salcete	South	Dr. Ameya Velingker	G-1, Ferreira Gardens, Phase -II, Near Chowgule College Gogol Margao Goa	9422439191	boneandjointcare@gmail.com
358.	Salcete	South	Dr. A.N. Jaiswal	G-3, Ferreira Gardens, Phase -I, Near Chowgule College Gogol Margao Goa	9822984862	dramarnath.jaiswal@gmail.com
359.	Salcete	South	Skandh Ayurvedic Clinic	Shop. No 6, Golden Shower AppartEntertainments, Muth Road, Gogol Margao Goa	989021575	aredgoa@gmail.com
360.	Salcete	South	Dr. ShriKrishna p. Gaitonde	Sharada Memorial Clinic Plot No 59, Gogol Margao Goa	8322752049/ 9822123523	shrikrishnagaitonde98221@gmail.com

Private clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
361.	Salcete	South	Dr. Ashok Borkar	AF 24, First Floor, L & L Corrieas Pride, Behind KFC, Fatorda, Margao, Goa	2736005	-
362.	Salcete	South	Dr. Neelam s. Borkar	Near Bhatiker High School, Opposite Gogaleshwar Temple Gogol Housing Board Colony	2752319/9422 062856	neelmi@rediffmail.com
363.	Salcete	South	Dr. Udays Clinic	Davorlim, Indona Waddo, Opposite Mahalaxmi Saw Mill, Margao,Goa	2753080/9822 983264	udaychafadker@gmail.com
364.	Salcete	South	Dr. Vishakha's Clinic	RH-3, Martins Villa, Behind Malakar Supper Market, Dicarpali Davorlim	2752713	car_alee@rediffmail.com
365.	Salcete	South	Dr. Vibhav.R. Pai Angle	7/s -4&7, Ramnagari, Mugalli,Salcete, Goa	2753892	-
366.	Salcete	South	Dr. Peter Fernandes	7/s, Ramnagari, Mugalli, Salcete, Goa	2786403/9822 071092	drjamespeterfernandes@yahoo.com
367.	Salcete	South	Shanti Raj Clinic	G6 Vasant Nagar Gogol, Margao, Goa	2724077	-
368.	Salcete	South	Patel Cosmetic Surgery Centre	Flat-No. B101 CD Signature, Near Bolshey Circle, Borda, Margao, Goa	9822032084	drmanishp@gmail.com
369.	Salcete	South	Dr. Marcia Pacheco D'souza	Shop no 7, Ground Floor,Near Arlem Junction, Mehboob Towers, Fatorda, Salcette, Margao, Goa 403602	9011025047	marcia_dsouza1000@yahoo.com
370.	Salcete	South	Dr. Suraj C Prabhudessai	F 29, Virgincar Bhavan, Opposite Saraswat Bank, Near Goa Telecom, Comba, Margao	9823157826	surajprabhudessai@gmail.com
371.	Salcete	South	Dr. Reshu's skin Solutions	Opposite Multipurpose College, Next to Suzuki Showroom, Borda Road - Margao, Goa	8390708479/9 923420269	reshu0306@gmail.com
372.	Salcete	South	Dr. Francisco c. Colaco	151, Mons. G. Rebello Road, Near Holy Spirit Church, Old Market, Margao, Goa	2732318	dr_colaco23@yahoo.com

Private clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
373.	Salcete	South	Dr. Yogesh Shetye	Ag.9, P.M. Dias Residency, St Joaquim Road, Borda, Margao, Goa	2734099/9923 634099	dryogeshshetye@rediffmail.com
374.	Salcete	South	Dr. Gaurav Jayant Desai	St Joaquim Road, Behind Udupi's Pai Palace,Borda, Margao Goa	9145632334	drguravdesai@gmail.com
375.	Salcete	South	Souza Physiotherapy	Opposite Loyola High School, Skylark Apartments Shop No.8 Margao Goa	9822185024	NA
376.	Salcete	South	Dr Subhash ChandraENT Clinic	1st floor, Hiraniketan Building Comba Margao Goa	9226631999	drsubhashchandra54@gmail.com
377.	Salcete	South	Dr. Deepa Prabhu Dessai	Ground Floor, Hira Niketan, Near Loyola School,Comba, Margao, Salcete, Margao,Near Loyola School, Goa	9923044847	deepa_pdessai@yahoo.co.in
378.	Salcete	South	Dr. Kishor Verlekar	Behind Church Curtorim, Salcete Goa	2786501/9923 327005	Does not have
379.	Salcete	South	Dr. K K Kamath	Near Church Chandor,Igorjebhatt, Chandor, Salcete, Goa	2784244	kamath_kk@hotmail.com
380.	Salcete	South	Anant Health Care	Opposite Church Chandor,Near Canara Bank,Chando,rSalcete Goa	2784241/9822 150425	doctorsurendra49@gmail.com
381.	Salcete	South	Majorda Clinic	Shop No 13, Majorda Club building, Majorda,Salcete, Goa		-
382.	Salcete	South	Dr Trevy Coutinho	C/o Health Care Clinic, Chinchinim, Goa	2763258/9850 456909	trevy.coutinho@gmail.com
383.	Salcete	South	Dr.MarconiCorreia	Behind Cansaulim Church, Cuelim, Cansaulim, Salcete Goa	2754050/9970 741214	marconicorreia22@gmail.com
384.	Salcete	South	Dr. Datta V. Vernekar	Church Complex Verna,Next to Post Office, Verna,Salcete, Goa	2782370/9422 446397	Does not have
385.	Salcete	South	Dr.Dileep Vernekar	Panchayat Building Nuvem, Nuvem Salcete Goa.	9226322086	vernekar.dhanu@gmail.com
386.	Salcete	South	Dr. Upund Chandrashekar	Nuvem Salcete Goa.	-	-

Private clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
387.	Salcete	South	Dr. Francis Pereira	Nuvm Salcete Goa.	-	-
388.	Salcete	South	Dr. Vasco Albert	Nuvm Salcete Goa.	-	-
389.	Salcete	South	Dr. Richard D'Costa	Nuvm Salcete Goa.	-	-
390.	Salcete	South	Dr. Mahabeshwar Raikar	Nuvm Salcete Goa.	-	-
391.	Salcete	South	Dr. Domnic Savio Dias	Nuvm Salcete Goa.	-	-
392.	Salcete	South	Dr. Cialda Gomes	Nuvm Salcete Goa.	-	-
393.	Salcete	South	Dr Uday's Clinic	Queeny classified, Shop No.8, Nagoa Pirni, Salcete Goa	2650850	-
394.	Salcete	South	H.B Diagnostic Centre	F/38, Sapana Plaza, AD'costa Road, Near Kamat Nursing Home, Alto Mont, Margao, Goa	2701644/9822 124705	nalinhgosalia@gmail .com
395.	Salcete	South	Dr. Nooranis ENT Clinic	109, R .D. Lotus Towers, Martiers Dias Road, Above Punjab National Bank, Margao, Goa	2731919/9422 438799	akberali.d.noorani@gmail.com
396.	Salcete	South	Dr. A P Bandodkar Naturopathy Clinic	F-15 Chamundi Apartments, Martires Dias Road, Margao, Goa - 403601, Near Hari Mandir, Malbhat, Baboy Commerce Centre	0832 - 2857453, 9405200152, 9822057943	drkedarhospital@gmail.com
397.	Salcete	South	Dr. P.S Kashmiri Clinic	Room No 3, Kamat Milan Lodge, Old Station Road, Margao, Goa - 403601	0832 - 2739258, 9422058640	NA
398.	Salcete	South	Atul's Clinical Lab	2nd Floor, Old Market Road, Margao, Goa - 403601	9890358046	lpl.margaon@gmail

Private clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
399.	Salcete	South	Dr. Basil Yuri Eye Clinic	1st Floor, Costa Pereira Building, Opposite Mun Garden, Margao, Goa - 403601	0832 – 2706099/9822 486930	yuri_eye@rediffmail.com
400.	Salcete	South	Dr. Karpe Eye Clinic	1st Floor, 3rd Row, Costa Pereira Building, Margao, Goa - 403601	2730104/9422 440199	NA
401.	Salcete	South	Dr. Solanki Ultrasound Centre	Visa Plaza, First Floor, No: 4, Near Hari Mandir, Malbhat, Margao, Goa	9326103278	solankigoa@gmail.com
402.	Salcete	South	General Practitioner's Clinic	No. G7, Ward 4, Mullaemwado, Assolna - 403701	9922668495/ 9922407790	saldanha.jude@gmail.com
403.	Salcete	South	Dr Armando Monterio	Ambelim Road Assolna Salcete Goa	-	-
404.	Salcete	South	Dr . Pradeep Taulikar	Velim Church Complex, Velim Salcete Goa	9822821125	-
405.	Salcete	South	Dr. Irwin Barros	Velim Salcete Goa	-	-
406.	Salcete	South	Clinic	G-6, Kasturi Building, Gavalwada, Fatorda, Margao, 403 602	9421140446	anandsavant@rediff mail.com
407.	Salcete	South	Dr Mukul R Pai Raiturkar Child Specialist	F – 11, First Floor, Laxmi Plaza, Opposite Syndicate Bank, Behind Grace Church, V.V.Road, Margao, Goa. 403601	0832-2726634	mukulpairaiturkar@gmail.com
408.	Salcete	South	Haridas Medical Centre	ShopNo 4, City Plaza, Pedda-Khareband, Margao, Goa.	9890423923	anusuya.kane@gmail.com
409.	Salcete	South	Kare's Cardiodiabetic Centre	Office No 206 and 213, Mapari Audi Plaza Building, Near David and Company, Near Margao Municipality,	8805876045	mahendrakare@gmail.com

Private clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
				Goa 403602		
410.	Salcete	South	Dr. Chitra's Clinic	House No L434, Housing Board Colony, Rumdamol, Davorlim	9822152932	chitrakurade@gmail.com
411.	Salcete	South	Rafael Medicare Centre	Ground Floor, Dr. L.D.Costa Building, AscanioCosta Road, Margao 403601	0832-2700151	office.rafaelmedicare@gmail.com
412.	Salcete	South	Workwell Occupational Health Clinic	Fremioth Apartments, Shop No 1, Near Maharaja Hotel, Nagoa-Verna	9890218587	contactsmruti@yahoo.com
413.	Salcete	South	Dr Rajesh Naik Clinic	S-5 Sapana Plaza,Ground Floor,Behind Grace Nursing Home, Margao, Goa	08322725169/ 9822103114	drRNAikgoa@gmail.com
414.	Salcete	South	Private Clinic	House Number 667, 1st Fatrade Post Office,Varca,Salcette, Goa	0832-2845275/ 9822386636	dikshapgaunker@gmail.com/ rprabhugaunker@rediffmail.com
415.	Salcete	South	Dr. Kenneth Mascarenhas	Varca, Salcete Goa	9860058222	kennethsm@rediffmail.com
416.	Salcete	South	Dr M.S.D Prakash	Varca, Salcete Goa	-	-
417.	Salcete	South	Dr Jesel Moniz	Kirbhat Carmona Zalor Beach Road Salcete Goa	9916678772 /8483044516	jeselm@rediffmail.com
418.	Salcete	South	General Practice Clinic	142, MSGR. G. Rebello Road, Near Holy Spirit Church, Margao-Goa	0832-2737202/9421744652	drmsgodinho@yahoo.co.in
419.	Salcete	South	Klinik Jana OHC / Goa Allergy Endocrine Center	102, Pacheco Complex, Behind Police Station, Comba, Margao, Goa.	9545904081	drhemantk@yahoo.com

Private clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
420.	Salcete	South	Krishnai Ayurveda Clinic	S-26, Anuradha Appartments, Swami Chinmayananda Marg, Housing Board Colony, Ghogol,Margao, Goa 403601	9673304322/9673300843	prashila123_krishnai@rediffmail.com
421.	Salcete	South	Dr Rohini's Homoeopathic Clinic	S2,Fern's Pearl,Bairro Primeiro,Assolna Salcete, Goa	9923692629	adrnav@gmail.com
422.	Salcete	South	Dr Jorson D Fernandes	Cf-11, Pancharatna Complex, Martires Dias Road, Margao,Goa	2733334/9822101334	drjorsonferns@gmail.com
423.	Salcete	South	Dr V N Kharangate	1st Floor, Dwarka Building, Margao, Goa - 403601, Opposite Cine Lata Theatre	2705264/9152549908	kharangatevinayak@gmail.com
424.	Salcete	South	Dr Bullivan Torcato	Volvo BuildingNo.1,Behind Police Station, Margao	2714066/9850459548	Does not have
425.	salcete	South	Dr Edgar Bosco Vas	1, Menezes Building,Opposite Harmonia Club,Margao Goa	2701210/9823238108	dredgarvas@gmail.com
426.	salcete	South	Dr. Singbal Orthocare Clinic and X-Ray	B-1 ns Golden Height,Near BPS, Margao 403601	9823360131/9284132209	drsidharth@rediffmail.com
427.	salcete	South	Goa Medicare Centre	Flat No A1, A2 Reliance Enclave, OppositeChildcare School, Pajifond, Margao	9604503988	holisticmedicarecentre@gmail.com
428.	salcete	South	Padma Chest Clinic	1st Floor,Rajnil Royals,Near Classic Hospital,Margao,Goa 403601	2726876	goamedicarecentre@gmail.com
429.	Sanguem	South	Ratnabhai Clinic	Block no 44, Near Busstand, Sanguem Goa	2604261	poonamrv9@gmail.com
430.	Sanguem	South	Ratnabhai Clinic (Res)	Red No 1/1,Dando,Sanguem,Goa	2604239	udaygoa1@gmail.com
431.	Sanguem	South	Dr Chandan Nadkarni	H.No. 4, Kharkate Ghati, Sanguem	9423883930	chandan.nadkarni@gmail.com
432.	Sanguem	South	Dr Sangam Nadkarni	H N 18, Bend Wado, Sanguem	9422846655	Does Not Have

Private clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
433.	Sanguem	South	Dr Vishnu Vaidhya	H No 125, Dado, Sanguem	9271876308	NA
434.	Sanguem	South	Dr Divya Bhandari Ayurvedic	Shop No. 46, Shrison Plaza, Sanguem	9545514033	Lavilabhandari962@gmail.com
No of facilities			434			

VI.K. List of Private Dental Clinics in Goa

Dental Clinics in North Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
1.	Bardez	North	Tooth Fairy Dental Clinic	Shop No. G4, House No. 1/235/A2, Ashiana Building, Xelpem, Duler, Mapusa	8149081766/ 7588967565	drshivamagarwal@gmail.com
2.	Bardez	North	Dr. Mahambrey's Smile Dental Clinic	1st Floor, El Capitan Centre, Above Sony Showroom, Mapusa	2262092	mhambrey shilpa@gmail.com
3.	Bardez	North	Dr. Reshma's Dental Clinic	5th Floor, Office 503, Atria, Above D'ziners, Mapusa	976381719	dr@reshmadental.com
4.	Bardez	North	Dr. Gaitonde's Dental Solutions	E/G9, Boshan Homes, Opposite Shree Bodgeshwar Temple, Mapusa, Bardez, Goa 403507	9075157799/ 832-2255799	dr.akshatagaitonde@gmail.com
5.	Bardez	North	Rukmini Dental Clinic	Commerce Centre, Opposite State Bank of India, Next o Mapusa Municipality, SBI Road, Mapusa, Goa 403507	9420727427	drjeevanhalankar@yahoo.co.in
6.	Bardez	North	Bodhi Dental Clinic	2nd Floor, Near Axis Bank, Angod, Mapusa	7378588919	-
7.	Bardez	North	Dental Clinic	Office No. 6, 8, 1st Floor, Comunidade Ghor, Angod, Mapusa	2255041/ 9850450596	sandraannmendonc a@gmail.com

Dental Clinics in North Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
8.	Bardez	North	Expression Dental Clinic	Shop No. 4, Vistara Towers, Duler, Mapusa	9657041122/ 96570 61122	www.expressionsdentalclinic.com
9.	Bardez	North	Dr. Atula's Dental Clinic	Garden Centre, Opposite Police Station, Mapusa	2250129/ 9823153754	dr.atula@gmail.com
10.	Bardez	North	Dr. Tar's Dental Clinic	Tar Building, Ganesh Smruti, Altinho Road 9, Mapusa, Goa, Near Mapusa Court	2251973 / 9422449550	tardentalcentre@gmail.com
11.	Bardez	North	Smile n Shine dental clinic	Tarchibhat, Above Canara Bank, Siolim	9765903393	shavu16@gmail.com
12.	Bardez	North	Exquisite Smiles	Nova Cidade Complex, Porvorim	9011724244	exquisitesmilesgoa@yahoo.com
13.	Bardez	North	Shruti's Dental Care	B.B. Borkar Road, Behind OCoqueiro, Next to B.P. Enterprises, Alto Porvorim, Goa 403521	2414255/ 9822102609	drshrutiducle@hotmail.com
14.	Bardez	North	Gentle Dental Care	LG-14, Ground Floor, Gomes Catao Complex, Near Alankar Theatre, Mapusa	2266398	gretchenpin@gmail.com
15.	Bardez	North	Evolve Dental Clinic	RR Tower, Opposite Vodafone Gallery, Mapusa	8380036644/ 9623644976	dr.daisy@evolveclinics.com
16.	Bardez	North	Dr. Patil's Dental Clinic	Brahma Tower Ground Floor Near Hotel NeoMajestic, Porvorim Goa	9552510870	dr.amitpatil@gmail.com
17.	Bardez	North	Dr. Kavlekar's Dental Clinic	Raja Apartments, Near Cine Alankar, Angod	2251150/ 9822155075	aditya.kavlekar@ymail.com
18.	Bardez	North	2th Klinik	Opposite Lokmanya Bank, Naikavaddo, Calangute, Goa	9923199676 / 99213149212	nadiapc2012@gmail.com
19.	Bardez	North	Smile Factory	Next to Snip Salon & Spa, Fort Aguada Road, Gauravaddo, Calangute, Goa 403515	9325595324/9 822167433	rachna.fernandes@gmail.com
20.	Bardez	North	Dental Surgeon	San Paolo, Ground Floor, Anna Vaddo, Candolim	2489719	drameliadc@rediffmail.com
21.	Bardez	North	International Centre of Dentistry	Mdr 10, Aguada Fort Area, Candolim, Goa	9326140067	dr.harshp@yahoo.com
22.	Bardez	North	Multispeciality Dental Practice	Near Delfino's, Candolim	9923391551	dr.allwyn@yahoo.co.in
23.	Bardez	North	Silver Oak	Dona Alcina Resort, Near	9970323787	dr.rajkavathekar@g

Dental Clinics in North Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
			Dentistry	Delfinos Mall,Condolim, Goa		mail.com
24.	Bardez	North	Dr. Tar'sDental Center	Trimurti Building,Near Mapusa Court Junction	2251973 9422449550	tardentalcentre@g mail.com
25.	Bardez	North	Dental Clinic	14 Narvekar Chambers,Opposite Mapusa Municipal Market	9881163456	drsa1dentalclinic@g mail.com
26.	Bardez	North	Lotlikar's Dental Care	GF4, Techno Cidade Complex,Near Sapna Garden, Chogm Road, Porvorim,Bardez	9423411933	lotlikardentalcare@g mail.com
27.	Bardez	North	Goa Dental Clinic	FF4 Techno Cidade, Chogm Road, Opposite Picnic Restaurant, Alto-Porvorim, Bardez	9822982156	drvandanagoadental. dvm@gmail.com
28.	Bardez	North	Smileline Dental Clinic and Implant Centre	Shop No 6, Nova Cidade Complex, OppositeDominos, Porvorim, Goa 403521	8554011481	smilelinedentclinic@ gmail.com
29.	Bardez	North	Dental Clinic	Shop No. 1, Fredville Plaza, Market Road, Morod, Mapusa, Goa 403507	0832- 6519993/ 8888884825	drcfranco@gmail.co m
30.	Bardez	North	AmeY 's Dental Clinic	Shop No. 7, 1st Floor, Prestige Arcade, Mapusa Morod, Near Saraswat Bank, Behind Mapusa Bazar	0832- 2402962/ 88068 44700	amy.doc2010@gmail .com
31.	Bardez	North	Dr. Pooja's Dental Clinic	Khotla Vado, Saligao Bardez, Saligao, Goa 403511	7745896139	poojadentalgoa@g mail.com
32.	Bardez	North	Implant Care Dental Clinic	1ST Floor Laxmi Shankar Sadan, Near Ravindra Tower,Behind Maruti Temple, Mapusa, Goa	9922167600/ 9859480487	dranurlekar@gmail.c om
33.	Bardez	North	Dr. Raikar's Dental Clinic	Chaitanya's House No.435/17 GF1, Chogm Road, Next to Baker's Street Pastry Shop, Pilerne, Goa 403521	083293 12166	saiesh2510@yahoo. co.in
34.	Bardez	North	Pearls Dental Clinic	Opposite KFC,Naikawado,Calangute	99753 33937/ 8048052821	shindeajit32@gmail. com
35.	Bardez	North	Dr.Menezes Multispeciality Dental Clinic	Don Domingos Residency,Opposite Blooming Buds,Naikawado, Calangute	0832 - 2275345 9890409494	dr.allwyn@yahoo.co. in allwyn993@gmail.co m
36.	Bardez	North	I-Teeth Dental Clinic	H. No. 75 A, Off Dr. C. Afonso Road, Maddo Vaddo, Calangute	9823250308	finedentistrygoa@g mail.com

Dental Clinics in North Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
37.	Bardez	North	Sai Dental, Xray And Surgical Clinic	Opposite Little Flower High School, Calangute	0832 2276294/ 9823998884	drinalaw@hotmail.com
38.	Bardez	North	The Goa Dental Studio	186, Calangute Candolim Sinquerim Road, Gauravaddo, Calangute, Goa 403515	9890937848	mahidesai@gmail.com
39.	Bardez	North	Smile Factory	Next to Snip Salon & Spa, Fort Aguada Road, Gauravaddo, Calangute, Goa 403515	9325595324/ 98221 67433	rachna.fernandes@gmail.com
40.	Bardez	North	Keep Smiling Goa	Casa Natasha Co-op Society, Gaurawado	9822982156	-
41.	Bardez	North	Smile Dental Clinic	1st Floor, Madarina Enclave, Calangute-Baga Rd, Opposite IDBI ATM, Naika Vaddo, Calangute, Goa	9890441127	dlimajohnson@hotmail.com
42.	Bardez	North	Dr.Sonia's Dental Clinic	Kamat Holiday Homes – III, Near Pizza Hut, Next To Old Newtons Arcade Calangute	9422330506 0832-2276444	dr.sonias@yahoo.in
43.	Bardez	North	Dr. Cindy's Dental Clinic	Chogm Road, Opposite Hotel Grace, Sangolda, Goa	2278629 / 9739746148	cindydesouza91@yahoo.com
44.	Bardez	North	Dr. Kavita's Dental Clinic	Opposite Novotel, Calangute Candolim Main Road, Candolim	9823497667	dr.kavita82@yahoo.com
45.	Bardez	North	Dental Clinic	406/250 PDA Colony, Porvorim, Near Jevotam Mutt	9764316350	drastridmonteiro@gmail.com
46.	Bardez	North	32 Shine Dental Clinic	H.No.779/4, Kel-Ken Villa, Opposite Hill Crest Apartment Wadakade, Porvorim	9823850408	kath_dsouza@yahoo.co.in
47.	Bardez	North	Dental Clinic	15, Oval Park, Azad Bhavan Road, Porvorim	9422443869	pvolvoikar@yahoo.com
48.	Bardez	North	Dental Clinic	Behind Damian de Goa Porvorim NA Bardez Goa, India 403501	9545478454	reagan.dalgado@gmail.com
49.	Bardez	North	The Dentist Clinic	C-4, Saldanha Business Towers, Mapusa	9960025441	drpriyarodrigues@gmail.com
50.	Bardez	North	Mahamaya Dental Clinic	1E, 1st Floor, R.R. Tower, Opposite Tempo Stand, Rajvaddo Bardez	9822159065	dentistsangeeta@gmail.com

Dental Clinics in North Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
51.	Bardez	North	Dr Sharon Dental Clinic	Shashesca Villa, Marine View Villas, Opposite La Calypso, Hotel Saunta Vaddo, Baga	9820531896	dr.sharon.sieiro@gmail.com
52.	Bardez	North	Dental Clinic	Riturai Plaza, 1st floor, Mapusa	9423313762	drarchanapednekar@gmail.com
53.	Bardez	North	Dental Clinic	Shop No 1, Ground Floor, Fredville Plaza, Mapusa, Goa - 403507, Morod	8888884825	drcfranco@gmail.com
54.	Bardez	North	Dr. Walke's Polyclinic	Walke Niwas, Duler, Mapusa	9422639992	dr_walke@rediffmail.com
55.	Bardez	North	Yashasvi Family Dentistry Clinic	GS-6 & 8, Sansha's Lajoy Complex, Socorro, Porvorim, NH-66, Bardez, Goa - 403501	9881731951	shirodkarpp@gmail.com
56.	Bardez	North	Implant Care Dental Clinic, Siolim	Implant Care Dental Clinic, Shop-ASH 2, D'costa Palms, Portavaddo- Siolim-Bardez- Goa	9921322035/ 9823593734	dr_anurlekar@yahoo.co.in
57.	Bardez	North	Calangute Dental Care Centre	K1& 2, First Floor, Brisa Residential Complex, Calangute Candolim road, Naikavaddo, Calangute, Bardez, Goa 403516	0832 2275320, 9823180195	cdcsushant@hotmail.com
58.	Bardez	North	Dr Sharmila Mascarenhas Dental Clinic	Pinto Vaddo, Candolim Sinkerim Main Road, Candolim	9975962895	info@drsharmila.com
59.	Bardez	North	*Candolim Dental	B/F2, First floor, Prazeres Rendezvous, Behind Sawant Medical Stores, Candolim Goa 403521	9822982343	soniya_gaunekar@yahoo.co.in
60.	Bardez	North	*Sai Multispeciality Dental Clinic & Research Centre	H.NO.874/5, Saideep, New Pundalik Nagar, Porvorim, Goa-403521	9975198428/ 9850470110	pgayatri13@rediffmail.com
61.	Bardez	North	*Orocare Dental Clinic	H.No 559, Dhatwada Cansa, Near SBI, Thivim, Bardez-	7875525011	tkannekar@gmail.com

Dental Clinics in North Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
				Goa 403502		
62.	Bardez	North	* Dr. Sardesai's Dental Clinic	No. 102, First Floor, Ramchandra Building, Opposite Taxi Stand, Above Union Pharmacy, Mapusa, Bardez, Goa 403507	9623370898	drlaxmisardesai@gmail.com
63.	Bardez	North	*The Smile Station Dental Clinic	The Smile Station Dental Clinic, Shubhalaxmi Building, Shop No 1506/2, Opposite Custom Colony, Next to Bangalore Bakery, Porvorim-Goa	9921461690/7378963135	mashelkark@yahoo.com/ thesmilestationdc@yahoo.com
64.	Bardez	North	*Dental Surgery Clinic	1, Fredville Plaza, Morod, Mapusa, Bardez, Goa 403507	8888884825 / 8380074408	drcfranco@gmail.com
65.	Bardez	North	*The Smile Station Dental Clinic	The Smile Station Dental Clinic opposite Custom Colony, Next	9921461690/7378963135	mashelkark@yahoo.com / thesmilestationdc@yahoo.com
66.	Bardez	North	*Dr. Alba D'Mello Dental Clinic	Hill Top Apartments, 1st Floor, Next to Gauri Petrol Pump, Alto Betim, Alto Porvorim, PO Goa - 403521	0832-2413922/9326114835	alba.dmello@gmail.com
67.	Bardez	North	*Dr. Sanjeev Vas Dental Clinic	Benson's B - 11,12,13,14, Opposite State Bank of India, Near Calangute Taxi Stand, Calangute, Goa.	2279623, 9822120558	drsanjeevvazdentalclinic@gmail.com
68.	Bicholim	North	Dr Gauri Gauns	Office No 9 Raghuvan Apartment, Near Mapusa Urban Bank, Sanquelim, Goa - 403505	9767409950	dotorgauri@gmail.com
69.	Bicholim	North	Sankhalim Dental Clinic	Gokulwadi, Desai Nagar, Sanquelim, Goa	8806728118	desaikalpita@gmail.com
70.	Bicholim	North	Desai dental clinic	Gokulwadi, House No 982, Shankar Sadan, Sanquelim, Goa	9822150208	drdesaiprakash@gmail.com

Dental Clinics in North Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
71.	Pernem	North	Dr. Kudalkar's Dental Clinic	1st Floor, Madhalamaz, Mandrem	8149586973	drkudalkarsdentalclinic@gmail.com
72.	Pernem	North	Aura Dental Clinic	Mandrem	880673061	saitaborkar@gmail.com
73.	Ponda	North	Dental Home	Shop 201,Rajdeep Galeria,Above Axis Bank,Ponda, Ponda, Goa-406401,India	2312087	NA
74.	Ponda	North	Dr. Bandodkars Dental Clinic	Hilltop Clinic, City Clinic,Julieta Apartments, 1st floor, Khadpabandh Queula, Ponda, Goa 403401	2319942/ 9822104961	bandodkar.clinic@gmail.com
75.	Ponda	North	Sahakari Dental Clinic	A-LG 36, Lower Ground Floor, Heritage Princess Building,Block A, Opposite Almeida High School, Ponda Goa	2317887/ 8554857788	shwetasaabnis@gmail.com
76.	Ponda	North	Raghusmriti Dental Clinic	Singbal Building, Opposite GVM Primary School, Ponda, Goa	9823674997	viv.ghadi@gmail.com
77.	Ponda	North	Chaitanya Dental Clinic	At Shirsat Hospital, Yashwant Nagar, Ponda, Goa 403401	9011256108	aditi8793@rediffmail.com
78.	Ponda	North	Implants& Dental Care Clinic	Shop No S-6 Ground Floor, Taraangan Building, Near Civil Court, Tisk, Ponda Goa	77758 41713	santoshpriolkar@gmail.com
79.	Ponda	North	Dr.Patil Dental Care Centre	1st Floor, Natelkar Complex, Above Bank of India, Ponda, Goa	2319068/9922 032733	drmansinghpatil@gmail.com
80.	Ponda	North	Studio Dental Clinic	Menino Trade Centre, OppositeCanara Bank, Ponda Goa 403401	2746198	-
81.	Ponda	North	Sukthankers dental clinic	Kaziwada,Ground Floor, Ponda Goa 403401	2318318/ 9822133657	anjsuk@gmail.com
82.	Ponda	North	Prabhugaonkar Dental Clinic	1st Floor, Dr Gokhale's Building, Upper Bazar, Ponda, Ponda, Goa, 403401	2319152/9822 133202	drabhaypg@gmail.com
83.	Ponda	North	Ann Dental Clinic	Upper Bazar, St.Anne's Regency, Ponda Goa	9823404659/ 9881218106	normadiaz1@hotmail.com
84.	Ponda	North	Sudips Dental Clinic	F-1,Radha Commercial Complex, Nirankal Road, Upper Bazar, NearVithoba Temple, Ponda,Goa	7798279360	sudipnk22@gmail.com
85.	ponda	North	Sai Dham Dental Clinic	Near Maruti Temple, Ponda, Tisk, Goa	9860314323	-

Dental Clinics in North Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
86.	ponda	North	Dr Radhika's Dental Clinic	Parcons Building, Upper Bazar, Ponda	9158660369	dmradhika@gmail.com
87.	Ponda	North	Dental Clinic and Implant Centre	First Floor, Prabhu Tower, Upper Bazar, Ponda Goa	7775841713	-
88.	Ponda	North	Dr Bandodkar's Dental Clinic	Khadpabandh, Near Municipal Garden, Patanjali, Ponda	9420689742	bandodkar.clinic@gmail.com
89.	Ponda	North	Kamakshi Dental Clinic and Imaging Centre	F- 33/34, First Floor, Kurtarkar comm arcade Behind Canara Bank Ponda	9405215034	jaya_chodnekar@yahoo.co.in
90.	Ponda	North	Shinkres Dental Clinic	F-27, 1st Floor, Kurtarkar Commercial Arcade, Behind Canara Bank, Ponda	9850301660	neelamshinkre@gmail.com
91.	Ponda	North	Dental clinic	139/6 Behind Honda Showroom, Khandepar Road, Curti, Ponda	9890322334	msraghu1@rediffmail.com
92.	Sattari	North	Laxmi dental clinic	Near Indian Oil petrol pump, Honda, Sattari -Goa, 403530	9158264026	Satyajitgawde29@gmail.com
93.	Tiswadi	North	Orthodontic Clinic	Kamat Arcade, St. Inez, Panaji- Goa	2424921/9822126040	mr dhume@rediffmail.com
94.	Tiswadi	North	Andrade's Dental Care	Nos 26, 27, 28, Models Millenium Vistas, Caranzalem, Panaji, Goa	9657120570	drneilandrade@gmail.com
95.	Tiswadi	North	Dharmesh Patel Dental Clinic	Shop No. F-57, 1st Floor, Alfran Plaza, Near Municipal Market, Opposite Don Bosco School, Panaji, Goa.	8390600305	dentalsolutions32@yahoo.com
96.	Tiswadi	North	Dr. Ajay Aras	Ground Floor, Dr. Ajay K. Aras, Ghanekar Building, Rua José Falcão, Near Old Secretariat, Panaji	2435616	meena_aras@yahoo.co.in
97.	Tiswadi	North	Kenkre Dental Care	Kamat Centre, First floor, D.B. Marg, Panaji - Goa	0832-2431138 /989070137	shilpa_dkenkre@yahoo.co.in
98.	Tiswadi	North	Pretty Smile Dental Clinic	B-6, St. Mary's Colony, Miramar - Goa	2463881/98602 89613	contact@prettysmileclinic.com
99.	Tiswadi	North	Dr. Deepa Desai	G-3, Emerald Towers, St. Inez, Panaji - Goa	976583507/9822486852	deepadesai1235@gmail.com
100.	Tiswadi	North	Dr. Sudha Singbal	1st Floor, Shankar Parvati Apartments, 18 June Road, Panaji - Goa	2431040/9049825499	sudha_singbal@gmail.com
101.	Tiswadi	North	Dr. Uma's Dental Clinic	2nd Floor, Mangurish Apartments, 18th June Road, Panaji - Goa	2420599/78754 70169	drumakrishnan92@gmail.com

Dental Clinics in North Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
102.	Tiswadi	North	Sagar Dental Care	F.F/05, Navelcar Arcade, A Wing, A.B. Road, Panaji, Goa	6644108/9922 941713	anupama.madihalli@gmail.com
103.	Tiswadi	North	Perfect Smile Dental Clinic	Dental Clinic, Joffre Residency, St Inez, Panaji - Goa	702009564	pradnya.rivanker@gmail.com
104.	Tiswadi	North	Dr. Fernando Noronha	F9, Shabana Chambers, Opposite Poshak, Panaji - Goa	2220039/ 9850666567	dr@fernandodentistgoa.com Fernando_n@live.com
105.	Tiswadi	North	Cosmetic Dental Care	Shabana Chambers, Opposite Poshak, Panaji - Goa	2223049/	fernandesdent27@yahoo.com
106.	Tiswadi	North	Dr Pooja's Dental Clinic	Akash Bhavan, Opposite Matthais Plaza, Panaji - Goa	832-2237755/9822 138338	dentistpooja@gmail.com
107.	Tiswadi	North	Colaco Dental Care	Akash Bhavan, Opposite Mattais Plaza, Panaji - Goa	8322232005 / 9890641197	recykhacolaco29@gmail.com
108.	Tiswadi	North	Snehasya Dental Clinic	Albuquerque Apartments, Opposite Don Bosco School, Panaji-Goa	99229 09625	sneha.pednekar25@gmail.com
109.	Tiswadi	North	Dr. S. S. Sardessai	Mahalaxmi Chambers, 18th June Road, Panaji-Goa	2223589	drsardessai3s@gmail.com
110.	Tiswadi	North	Charisma Dental Center	S-1, Jairam Complex, Neuri Nagar, Panaji-Goa	2226122/9823 155302	dr.anna.vaz@gmail.com
111.	Tiswadi	North	Dental Care Centre	G- 18,Jairam Complex, Neugi Nagar, Panaji	9637763463/9 284835499	dr.rahulsdentalcare@yahoo.co.in
112.	Tiswadi	North	Dr. Disha Pai Vernenkar Clinic	B-13,Campal Trade Centre, Behind Military Hospital, Campal, Panaji-Goa	2232037/9822 134139	dishapaigoa@gmail.com
113.	Tiswadi	North	Dental Clinic	101, Wagle Vision, Opposite Urban Health Center, Ozari-Panaji	2438240/9225 903235	drparag0513@gmail.com
114.	Tiswadi	North	Kenkre Dental Care	F5,1st Floor, Edcon Towers, Menezes Braganza Road,Panjim,Goa	0832-2430979/9890 70137	shilpa_dkenkre@yahoo.co.in
115.	Tiswadi	North	Dental Clinic	21,Ramakant Apartments, Opposite Thakur Petrol Pump, Near Don Bosco, Panaji - Goa	2237927/9822 589062	dipti.dhume@yahoo.in

Dental Clinics in North Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
116.	Tiswadi	North	Dr. Karande Interdisciplinary Dental Center	F-3, Radhakrishna Society, Near Vivanta by Taj, St. Inez, Panaji-Goa	2430924/9823 041343	drajay @ dentalguidegoa . com
117.	Tiswadi	North	Ora Care	Shop No. 14 & 15, Kamat Plaza, Av. Teófilo Braga, Behind St. Inez Church, Electricity Colony, Santa Inez, Panaji, Goa 403001	8378807111	drpriya@oracaregoa .com
118.	Tiswadi	North	Visage Cosmetic and Implant Surgery	Unitech's City Center, Panaji	9970324951	Visagedentistry@gm ail.com
119.	Tiswadi	North	Faiza Dental Clinic	Rizvi Sadan, Near Panaji Market, Panaji-Goa	8554869006/ 7768946242	drfaizashaikh31@g mail.com
120.	Tiswadi	North	Dental World	Shop No.15, Madhubhan Complex, Panaji-Goa	6519182/9325 88919/982343 2108	sanjslife@rediffmail. com
121.	Tiswadi	North	Bright Smiles Dental Clinic	Shop No. 450, Lovers Baker Building, Taleigao-Goa	0832 6524531 /992 3280849	vdentist@rediffmail. com
122.	Tiswadi	North	Novodente	Godinho Medical Center, Caranzalem- Goa	7030305563/ 9766780837	desousajoanne@gm ail.com
123.	Tiswadi	North	Dr. Vallabh Kamat	Atlantis 2, Upper Ground Floor, 102, Panjim, Behind HDFC Bank Panjim, Goa	2464184/ 9850741578	drvalkam@yahoo.co m
124.	Tiswadi	North	Ace Dental Care	Ground Floor, St.Augustine Complex, Near Dempo House, Tiswadi, Santa Cruz, Goa	2447227/9422 444173	archan.vaz@gmail.c om
125.	Tiswadi	North	Ofelia Dental Clinic	Near St. Lawrence Church, Agassaim	9370639890	brianpalha@gmail.c om
126.	Tiswadi	North	Dynamic Dental Clinic	St. Francis Xavier Residency, Old Goa	9823309839	wadkardeepak@yah oo.in
127.	Tiswadi	North	Perfections Dental Clinic	Behind Heera General Store, Voddlem Bhat, Santa Cruz	9152560821	shirodhkrpooja@gm ail.com
128.	Tiswadi	North	Miramar Dental Centre	C/o Miramar Dental Centre, B-G/3 Lar Asiena Kerant Building, Panjim, Goa - 403001	2461874 /982 2124494	greliz9@hotmail.co m

Dental Clinics in North Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
129.	Tiswadi	North	Dental Clinic	411, Shiv Towers, Pao Plaza, EDC Complex, Panaji	9822126041	d.mac1962@rediffmail.com
130.	Tiswadi	North	Parag Prabhudesai Dental Clinic	101, Wagle Vision, 18th June Road, Panaji	9225903235	drparag0513@gmail.com
131.	Tiswadi	North	Smile Avenue Multispeciality Dental Clinic	Ground Floor, Cacula House, P.O Box 68, Dr Pissurlekar Road, Panaji	9822985784	smileavenueclinic@gmail.com
132.	Tiswadi	North	Dhruv Dental Clinic	BGI Building B, Joseperes Cardozo Complex, Dovernem, Mercas	8378966053	pgovekar01@rediffmail.com
133.	Tiswadi	North	*Nalini Smruti Medical and Dental Center	4/44, Kamat Complex, Tonca, Caranzale, Goa 403 002	0832-2462878, 9822182523, 9822132641, 9405921445, 9405921440	amodsujata@gmail.com
134.	Tiswadi	North	*Rivankar Smilematic Dental Clinic	Braganza Building, Opposite Shah Arcade, Santa Cruz, Tiswadi, Goa PIN: 403005	9226567657	nvrivankar@gmail.com
135.	Tiswadi	North	*Pankar Dental Clinic	Sakhardhande Apartment, Next to Senior Kundaikanagar	9420746657	pankarpratima@gmail.com

Dental Clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
136.	Canacona	South	Dental Clinic	Shop No 1 Subhash Centre, Canacona, Goa - 403702, Near Grace Pharmacy Chavdi	2643551/9822 380620	elizabarretto20@gmail.com
137.	Canacona	South	Agonda Dental	Opposite St. Anne's Church,	2647325/9823	agondadentalclinic@

Dental Clinics in South Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
			Clinic	Igorji vaddo Agonda, Canacona, Goa – 403702	538096	gmail.com
138.	Mormugao	South	Dr.Nandita Shetye	S 16 Ground Floor, Chase, Vasco Da Gama, Goa Opposite Lapaz Gardens	774108947	nandita.keni@gmail.com
139.	Mormugao	South	Maruti Dental Clinic	Block A, 1st Floor, Pandit Kossambe Building, Swatantra Path, Vasco Da Gama, Near Hotel La Paz Gardens	2501985/ 8408992754	shwtmgdm@gmail.com
140.	Mormugao	South	Dr.Nisha Menezes	1st Floor, Leomar Apartments,Near Ambabai Temple,Mangor,Vasco	2530516/7721 866390	drnisha212@gmail.com
141.	Mormugao	South	Dr.Ramesh Thakur	Lotus Apartments, Shop 7, F L Gomes Road, Vasco, Goa 403802	2500357/9511 638357	drst1964@yahoo.com
142.	Mormugao	South	Dr.Tuppad's Multispeciality Dental Clinic	Office No. 2, Belmira Plaza, Swatantrata Path, Vasco Da Gama, Goa - 403802, Laxmi Petrol Pump, Near KTC Bus Stand	9423057047	praveenkuppad@gmail.com
143.	Mormugao	South	Dr.D.V Naik Dental Surgeon	1st Floor, F L Gomes Road, Near Sagar Plywood And Hardware, Vasco	2517137/9403 849474	drsmilein@gmail.com
144.	Mormugao	South	Francon Dental Clinic	1st Floor, Royal Plaza Building, Vasco-da-Gama, South Goa	2501575/9823 730329	francondc@yahoo.com
145.	Mormugao	South	Shiv Memorial Dental Clinic	Shop-1 1st Floor, Karma Point, Opposite Vegetable Market Vasco	2521148/ 9890838020	ckalyanshetty@gmail.com
146.	Mormugao	South	Manguesh Dental Clinic	201, 2nd Floor, Prime Complex, Near Kadamba Bus Stand, Next to Pastry Palace, Mundvel, Vasco Da Gama	2514395/ 8007159845	drsansgiri@rediffmail.com
147.	Mormugao	South	Sai Jyot Dental Clinic	Santosh Complex, Opposite Lion's Club, Queeny Nagar, Zuarinagar, Vasco	9823321514 / 9503781015	jalandarnathgoilkar@gmail.com
148.	Mormugao	South	Dr.Nagasekar's Dental Clinic and Implant Centre	A-3, Raghunath Apts, Near ICICI Bank, Fl Gomes Road, Vasco	2500832/9850 320332	gaurav2485@rediffmail.com
149.	Mormugao	South	Reflections Dental Clinic	Shop No 120, 1st Floor, Anand Towers 2, Above SBI	2540822/9822 983344	Sk.manjit@gmail.com

Dental Clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
				Bank, Chicalim, Airpot Road Vasco-Da-Gama, Goa - 403802		
150.	Mormugao	South	Healthy Smile Dental Clinic	Vasco	9421310053	pallavi_sawkar38@rediffmail.com
151.	Mormugao	South	Silpa Dental Clinic	El shaddi,H.no. 133,Anand Estate, Near NSD, Dabolim	9422390403	big_p@rediffmail.com
152.	Mormugao	South	Shantadurga Dental Clinic	1st Floor,Roshan Building, Pixem Dongri,Vasco	2517137	-
153.	Mormugao	South	Nagarsekar Dental Clinic	Harshad, OppositeShivsagar Apartment, Mangor Hill, Vasco da Gama	9850320332	gaurav2485@rediffmail.com
154.	Mormugao	South	Vasco Dental Clinic	Above Bank of Baroda, Vasco da Gama	9423055590	aligoa@yahoo.com
155.	Mormugao	South	S.V. Dental Clinic	H.No.645, Viegas Mansion, Behind Holy Cross Chapel,New Vaddem, Vasco	9637535065	stefney.viegas@yahoo.com
156.	Mormugao	South	*Dr.Shilpas Dental Clinic	Dr.Shilpa's Dental Clinic,Opposite Airway Public School,MES College Road,Vidyanagar,Sancoale	9422643551	drs.shilpa.praveen@gmail.com
157.	Mormugao	South	*Sam's Dental Spa	Shop no-9, Umiya Quatro, Commercial D, Near Dabolim Airport, Vasco	9765507905/9 552159314	drmayekarsampada@gmail.com
158.	Mormugao	South	Dr. Sunita Sharma Hajela Dental Clinic	321,Flight Ins Hansa, At Airport Road, Vasco	9673243746	sunitahajela@gmail.com
159.	Quepem	South	Ashirwad Dental Clinic	1 st floor Flat No 2, Keshree Plaza,Curchorem,Goa	2605043/9922 361944	surajknaik.2010@rediffmail.com
160.	Quepem	South	Dr.Ketan H. Prabhudesai	OfficeNo. 22,1st Floor, Ramalayam, Church Road	2650721	drketanpd@rediffmail.com
161.	Quepem	South	Dental Clinic	Ground Floor, Jenasco Building, Near Syndicate Bank, Curchorem-Goa	2653216/9823 695723	jkakodkar@hotmail.com
162.	Quepem	South	Total Care Dental Clinic	Shop 2,Veman Commercial Complex, Behind Petrol Pump, Quepem	2991402	-

Dental Clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
163.	Quepem	South	The Good Shepherd Dental Clinic	Cusmane Building, 1st Floor, Quepem, Goa	2662052/9850 567952	joanmenezes@gmail.com
164.	Quepem	South	Ambika Dental Clinic	Angelica Arcade, Opposite Monginis, Quepem, Goa	9822995561	drpramodlamdor@gmail.com
165.	Quepem	South	*DrTarka Bhende Dental Clinic	Shop No.2, Shivaji Kudchadkar Building, Near Old Prashant Theatre, Bepquegal, Curchorem, Goa 403706	9823280759	tarkabhende.3@gmail.com
166.	Salcete	South	Studio 32	1st Floor, Meera's Prestige, Next to Baskin Robbins, Colva Beach Road, Colva, Goa	2781701/8975 773232	studio32india@gmail.com
167.	Salcete	South	Dr. Sunil Coutinho	Colva Salcete Goa	9823039005/ 2789495	-
168.	Salcete	South	Dr Nitesh Naik	Shop no 36/1 (A1) Annie Enclave, Next to Axis Bank Colva Salcete Goa	9923054620	drniteshnaik_23@yahoo.com
169.	Salcete	South	Goa Dental Solutions	Near Our Lady of Merces Church, Parish Hall Complex, Colva, Goa 403708	2780700	goadentalsolutions@gmail.com
170.	Salcete	South	Colva Dental Clinic	Church Hall Complex, Shop No. 25, Opposite to the Fish Market.	2788513/9822 125930	otilia38b@hotmail.com
171.	Salcete	South	Vaz Dental Clinic	Shop no. G-7, Royal Enclave, Colva Road, per Seraulim, Goa	982263352	leninjohn@reddiffmail.com
172.	Salcete	South	Dr. Shubha Talvadker	Varca Salcete Goa	9960199983/ 2779854	shubha.talwadker@gmail.com
173.	Salcete	South	Teeth Care Dental Clinic and Implant Center	Shop No. G2 HNo. 314/A/2, Ground Floor, Jose Holiday Homes, Cavelossim, Goa	9765944906	drjamespeterfernandes@yahoo.com
174.	Salcete	South	Shetye Dental Clinic Implant and Dental Center	Jose Holiday Homes, Ground Floor, Cavelossim, Salcete, Goa	9823088402	nandita.keni@gmail.com
175.	Salcete	South	Fernandes Dental and Implant Center	Flat No. AF1, 1st Floor, Micon Arcade, Opposite Haathi Mahal, Mobo, Cavelossim, Goa	2772188/9823 153217	dr.piedadefernandes@gmail.com

Dental Clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
176.	Salcete	South	Fernandes Dental Center	Shop G-14, Kepkar Residency, Birondi, Benaulim, Goa - 403716	2772188/9823 153217	info@fernandesdent alcentre.com/drpi ed adefernandes@yaho o.co.in
177.	Salcete	South	Dr Uday Talwadkar	Beach Road Benaulim Salcete Goa	9890754435/ 2772108	uday_harsh@yahoo. co.in
178.	Salcete	South	Fernandes Dental Center	Naroo Holiday Homes, 1st Floor, Nr. St. Anthony Chapel, Gauravaddo, Calangute, Goa	9823153217	dr.piedadefernandes @gmail.com
179.	Salcete	South	Fernandes Dental Center	Opposite Taj Exotica, Kalvaddo, Benaulim	9823153217	dr.piedadefernandes @gmail.com
180.	Salcete	South	Fernandes Dental Center	1st Floor, Severino Residency, Benaulim Beach Road, Near Maria Hall	9823153217	dr.piedadefernandes @gmail.com
181.	Salcete	South	Velim Dental Clinic	Caeiros Vaddo, Velim - Salcete Goa	9678542376	drsharveenabandodk ar@gmail.con
182.	Salcete	South	Dental Health Clinic	Nirupa Niwas, Balli-Math- Goa	9922407790/9 420820679	drjudesaldanha@gm ail.com/saldanha.jud e@gmail.com
183.	Salcete	South	Margao Dental Clinic	D/f-11, Pancharatna Complex,Behind Borkars Super Store,Margao	2704063	dranand@goateleco m.com
184.	Salcete	South	Grace Dental Clinic	Off.no F-10 1st Floor, Above Andhra Bank, Sweet Home Symphony, Margao side of flyover bridge, Goa	2731954/9823 538096	agondadentalclinic@ gmail.com
185.	Salcete	South	Dental Clinic	1st floor, Sincro Towers, Behind Municipality, Margao, Goa	2739820	naikdranita@gmailm. com
186.	Salcete	South	Dental Zone State of the Art Dental Care	33/1,Vasant Arcade.Opposite Popular School,Margao	9822582565	drmeera2001@yaho o.co.in
187.	Salcete	South	Margao Dental Clinic	Reliance Magnum Building #205/2 nd Floor, Above Navtara Restaurant, Opposite KTC Busstand, Margao, Goa	9860110096/ 9607023687	info@goadentalspec ialist.com
188.	Salcete	South	Da Silva Dental Clinic	Near Era High School Building, Cine Vishant Road, MargaoGoa	2705877/ 9823491364	dr_armando_dasilva @hotmail.com

Dental Clinics in South Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
189.	Salcete	South	Radiant Smiles	J.B. Apartments, Near Pastry Palace, Pandav Chapel,Aquem Margao, Goa	2705877	drakshata.anvekar@gmail.com
190.	Salcete	South	Dr Siena Furtado EPacheco	Garnet Apartment,Aquem,Opposite Padma Pharmacy, Margao, Goa	2714611/9822 486910	siene.pacheco9@gmail.com
191.	Salcete	South	Fernandes Dental and Implant Centre	Paramount Shopping Complex,Near Rosary Church,Near Apollo Pharmacy,Navelim, Goa	9823153217	dr.piedadefernandes@gmail.com
192.	Salcete	South	Dr Celso Navelim Multi-Specialty Clinic	1st floor F4 Paramount Shopping Complex, AWing,Behind Apollo Pharmacy Navelim, Goa	2728029/9422 058741	navemarg@gmail.com
193.	Salcete	South	Dr. Michelle Tavares e Paes	Navelim Salcete Goa	9763832742/ 2732524	-
194.	Salcete	South	Dr. Alvaro de Loyola futardo	3, Loyola Futardo Shopping Complex,Chinchinim,Salcete , Goa	7507799985	alvarolfurtado@gmail.com
195.	Salcete	South	Ghodekers X-Ray Dental Clinic	363/A, Secreamuvadd,Chinchinim, Near Sub- Post Office,Chinchinim, Goa	2862918	eshaghodeker@yahoo.co.in
196.	Salcete	South	Dr. Sonali's Dental Clinic	Shop No 1, Secravado,Chinchinim,Salcete, Goa,Near Alrani Foke Church	2863282/9420 152594	drshonalidentalclinic@gmail.com
197.	Salcete	South	Dental Clinic	Conceicao Apartments,GroundFloor,Rawanfond, Navelim,Salcete, Goa	8007524935	deepsdent@gmail.com
198.	Salcete	South	Themudo's Dental Care	Shop No A1-A2, Josma Royal, Margao Navelim Road, Near Borkars Super Market,Navelim, Goa	2728778	blanchethemudo@yahoo.com
199.	Salcete	South	Carvalho's Dental Clinic and X-ray Centre	Shop No 1, Mabai Hotel, Opposite Muncipal Garden, Margao, Margao, Goa	2713628	varuncarvalho@yahoo.com
200.	Salcete	South	Dental Clinic and Implant Centre	Reliance Trade Centre, 1st floor, Shop No. A-125 Margao Goa	2712643/9850 775689	bhushanlotlikar@rediffmail.com
201.	Salcete	South	Dr. Rashmi's Dental Clinic	2nd Floor, Reliance Trade Centre, Behind Grace	2702267 /942 0686815	kshamakudchadkar14@gmail.com

Dental Clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
				Church Margao, Goa		
202.	Salcete	South	Dr. Shruti's Dental Clinic	A/SH-9,L and L Magnolia Complex, Near Sharda Classic Restaurant,Fatorda, Margao, Goa	2414255/ 930 9705916	drshrutikamatpai@gmail.com
203.	Salcete	South	Dentopoint	F/4, Ferreira Gardens, Phase -II, Near. Chowgule College, Gogol, Margao, Goa	94220628844 /9035474512	kshamakudchadkar14@gmail.com
204.	Salcete	South	Dental Clinic (Dr.Anand Colaco)	G-1 Ajanta Arcade, Gogol, Cross Roads, PO Fatorda, Vidya Nagar, Margao, Goa	2712764/9326 1 10788	drcolaco@yahoo.com
205.	Salcete	South	All Smiles Multi-specialty Dental Clinic and X-ray Centre	Shop.no AF-3, Blessing Pioneer, Commercial Complex, First Floor, Above Dominos, Old Market , Margao, Goa	9823675623	drkiaraalmeida@gmail.com
206.	Salcete	South	Prabhu's Dental Care and Implantology Centre	AF 10, First Floor, L & L Corrieas Pride, Behind KFC. Fatorda, Margao, Goa	9420164895	prabhuvigneshr@yahoo.co.in
207.	Salcete	South	Dental Concepts	Madel, G-5 Leandra Chambers Co-op Housing Society Limited, Madel, Margao, Goa, Madel, Margao	9890225513	drivycoutinho@yahoo.com
208.	Salcete	South	Dental Clinic (Piedade Memorial Dental Clinic)	836/D, Mugalli, Sao Jose de Areal, Salcete, Goa	6482198/9765 536693	millycolaco@gmail.com
209.	Salcete	South	Dr. Sonia's Dental Studio	Shop No. A-18,Royal,CD Signature,Ground Floor, Near Bolshey Circle, Borda, Margao, Goa	2276444 /976 6349903	drsoniakeny@rediffmail.com
210.	Salcete	South	Tooth Crafts Dental Clinic	Shop No 112, Near Arlem Junction, Mehboob Towers, Fatorda, Salcette, Margao, Goa	7507803314/9 881986703	toothcraftsgoa@gmail.com
211.	Salcete	South	Dr. Czarina Coutinho Multi-specialty Dental Clinic	G-2, Anandvan,Fatorda,Salcete, Goa	2741524	drczarinagoa@gmail.com

Dental Clinics in South Goa

Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
212.	Salcete	South	Dental Clinic (Dr. Mrs. Bhushan GLotlikar)	First Floor, Above Amul Silva Building, Near P.W.D Office, Fatorda, Margao, Goa	2712643/9850775689	bhushanlotlikar@rediffmail.com
213.	Salcete	South	Saikrupa Dental Clinic	G-6, First floor, Medeira Enclave, Opposite Monginis Cake Shop, Gawli Wada, Fatorda Margao Goa	2749695/9890637005	Shardul.h@gmail.com
214.	Salcete	South	Studio 32 Boutique Dental Clinic	1st floor, Lake Plaza, Opposite Damodar ling Temple, Fatorda Goa	2742371/7798599952	draartigadkari1693@gmail.com
215.	Salcete	South	Saikrupa A Dental Clinic	Arsia Apartments, First Floor, Vidyanagar, Gogol, Margao Goa	2750530/9890637005	drchandrahiremath@yahoo.com
216.	Salcete	South	Dr. Parker's Dental Clinic	Building A1, First Floor, Vaibhav Park, St. Joaquim Road, Opposite Golden Fork Restaurant Borda Goa	7888017788	care@drparkers.com
217.	Salcete	South	Smile Craft Centre for Advanced Dental Care	Shop No. 3, Building A, Kurtarkar Harmony, Borda, Margao, Goa	7776960305	smilecraftgoa@gmail.com
218.	Salcete	South	Gracias Flor Dental Clinic	Niana Gracias Plaza, 1st Floor, Near Margao Police Station, Margao, Goa	2715841/9822162847	paulinogflor@gmail.com
219.	Salcete	South	Dental Clinic (Dr. Malissa Gomes)	Office No. 3, 2nd Floor, Virgincar Bhavan, Martinho Menezes Road, Comba, Opposite Saraswat Bank	2711522/8698716354	dr.malissa.gomes@gmail.com
220.	Salcete	South	Dental Point	First Floor, M/s. La Silva Mansion Building, Opposite Post Office, Pequeno Rumbordem, Curtorim, Salcete, Goa	8806668630	sharlette18@yahoo.in
221.	Salcete	South	Dental Clinic	Cairo Building, Ravanfond, Aquem Baxio, Shop No. 8 Road, Navelim, Salcete, Near M C C A Goa, Margao-403707	9423884650	deepsdent@gmail.com
222.	Salcete	South	Divine Medical Centre	Shop No. 5, Tembim, Raia, Goa 403718	2776237	mamta0302@gmail.com
223.	Salcete	South	Dr. Melvin Karl Sequeira	Opposite Velcao Panchayat, P.O. Cansaulim Salcete Goa	2754288/9822484963	dr.mel24@gmail.com
224.	Salcete	South	Cansaulim Dental Clinic and X-ray Centre	1st floor, Above Post Office, Cansaulim, Salcete, Goa	2754925/9822006811	reservationnova@trehousehotels.in

Dental Clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
225.	Salcete	South	Nono Dente	H.No 317/2&3, Godinho Waddo, Near Musson Ground,Majorda, Goa	2881089	dr.sanjaycoelho@gmail.com
226.	Salcete	South	Dental Clinic (Verna)	Opposite Fr.Agnel Ashram, Matol, Verna Salcete Goa	9921461614	-
227.	Salcete	South	Dental Clinic (Dr. Rachael)	H no 217, Senaulim Road, Near St. Rocks Chapel, Verna Salcete, Goa	9822175610 or (0832)-2783766	albertmasc123@gmail.com
228.	Salcete	South	Nagoa Dental Clinic	Serena Building, Shop No.2, Opposite the Nagoa Market, Pirni,Nagoa Goa	9552671943/72619877457	nagoadentalclinic@gmail.com
229.	Salcete	South	Teeth Care Dental Clinic	House No.62-A, Maina Vaddo, Salcette,Goa	9765944906	drjamespeterfernandes@yahoo.com
230.	Salcete	South	Dr Naik & Dessais Braces & Implant Multispeciality Dental Care	Shop No. 4, Vasant Vihar Building, Opposite Borkar Superstore, Vidyanagar, Margao	9527692331	orthodontistgoa2011@gmail.com
231.	Salcete	South	Holy Spirit Dental Clinic	1st Floor, Laxmi Plaza building,Behind Grace Church	9822981977	drgenelina@yahoo.co.in
232.	Salcete	South	Dr Amilcars Dental Clinic	1st Floor,Marchon Building, Opposite Lohia Maidan,Margao	9822102369	drkarlsousa@gmail.com
233.	Salcete	South	Cosmetic Dental Solutions	A-109,1st floor, Pereira Plaza, Opposite Hospicio, Margao	9637722253	drmichellepereira@gmail.com
234.	Salcete	South	Dent- Inn Multispeciality Dental Clinic	1st floor, Above Mario Miranda Gallery,Raghunath Square,Pajifond,Margao	7773927258	finddrnanda@gmail.com
235.	Salcete	South	Dental Affairs	Radha Enclave,C-216,3rd Floor,Isidore Baptista Road, Above Raymonds Showroom	9326140938	info@dentalaffairs.in
236.	Salcete	South	Shree Dental Clinic	No.1,2nd Floor, Kamat Commercial Centre, Muncipal New Market, Old Station Road, Margao	9822485314	ramanuditi@rediffmail.com
237.	Salcete	South	Alberto Dental Clinic	R-13/14, Sousa Enclave, OppositeOsia Mall,Maddel Margao	9422634229	albertodentalclinic@gmail.com
238.	Salcete	South	Leslie Memorial Dental Clinic	Dr Miranda Road, Behind Metropole Cinema, Margao	9370568517	drsavio@bsnl.in

Dental Clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
239.	Salcete	South	Atulya Dental Clinic	F-3/4, Kankeshwari, Cine Vishant Road,Pajifond	9850450360	drshamasingbal@gmail.com
240.	Salcete	South	Dental clinic	Sapana Vns Residency, Near Railway Gate, Khareband Road, Margao, Goa - 403601	9423883980	smita20372@gmail.com
241.	Salcete	South	Magic Smiles Dental Clinic	Ground Floor,SN Classic,Near Holy Spirit Church,Margao,Curtorim Road	9422058479	drtanayas@gmail.com
242.	Salcete	South	Hubert Gomes Dental Clinic	Reliance House, Near Old Blue Pearl Theatre, Opposite IDBI Bank, Margao	9822104033	drhubertgomes@hotmail.com
243.	Salcete	South	Aditi Dental Care Centre	Shop No. 4,Silvermist,CD Country side Murida, Fatorda	9766349903	drsoniakeny@rediffmail.com
244.	Salcete	South	Erof Dental Clinic	Manuel Mansion, near Big Foot, Near Saviour of the World Church, Loutolim, Goa	2858028/9764316350	drastridmonteiro@gmail.com
245.	Salcete	South	Family Dental Arts	S-12, Kurtarkar Shopping Centre, Landmark: Near Hari Mandir, South Goa	8806627202	avbandodkar@gmail.com
246.	Salcete	South	Dr.Acena Veronica Da Costa Dental Clinic	H.No.7, Gabriel Apartments,Opposite Miranda Hospital,Margao	9422639878	acenavdc@gmail.com
247.	Salcete	South	Dental Clinic	H-5,Ratrani,C.D Goodearth, Dongoruaddo, Fatorda, Margao	9881883815	castelloindira@gmail.com
248.	Salcete	South	Dental Clinic	Mohini 4-B, Cotto, Sanguem margao	9921413081	drvidyesh@gmail.com
249.	Salcete	South	Raikar Dental Clinic	F- 14, Sateri Chambers	9822982430	punamraikar2004@gmail.com
250.	Salcete	South	Lacerda Dental Clinic	Shop- BG20, Rosary Arcade,OppositeBank of India, Salcete	9766331293	alzira23@hotmail.com
251.	Salcete	South	*Dentacare Dental Clinic	House.No 101, Nuvem Salcete Goa	9823626299	rmdcosta2001@gmail.com
252.	Salcete	South	* Dental Consultants	L&L Empress Emma, Shop No 7/8, Seraulim.	9822131105	drvinella@gmail.com

Dental Clinics in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
253.	Salcete	South	*All About Braces	Kurtarkar Regency, S-5, 2nd floor, Opposite Raymond Showroom, Above Souza Pharmacy, Margao-Goa 403601	9511271910/ 9673055522.	drkarishmaparkar@rediffmail.com
254.	Salcete	South	* Arauz Dental Clinic	256, Behind Rosary Church, Dongorwaddo, Fatorda, Margao, Goa 403 602	9049160062	precyaraujo@gmail.com
255.	Salcette	South	Dr Susheela Fernandes	First Floor, AS/9, Pancharatna Complex, Above Borkar Market, Margao, Goa	2735761/ 9850409565	susheela.fernandes@gmail.com
256.	Salcette	South	Shailaja Dental Clinic	Near Cuncolim Industrial estate	9823123017	Shailajaparab7@gmail.com
257.	Salcette	South	Smile Art Dental Care	Cuncolim Salcete Goa	9604760324	saurabhnaikdessai@gmail.com
258.	sanguem	South	Shantayee's Multi Specialty Dental Clinic (Braces and Implants)	4-B, "mohini", Cotton , Sanguem Goa 403704	9921909911	drpurnima.nadkarny@gmail.com
No. of facilities			258			

VI.L. List of Diagnostic Centres in Goa

Diagnostic centres in North Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
1.	Bardez	North	Ashwini Pathology Centre	F8, Ramchandra Chambers 1st Floor, Mapusa Clinic Road, Mapusa - Bardez, Goa	2252320/ 9822102524	drprasadnetravalkar@gmail.com
2.	Bardez	North	Polyclinic Pathology Lab	Jacknim Vaddo, Opposite Ganesh Temple Parra, Bardez Goa	2472220/ 9420355818	gracacostalab2015@gmail.com

Diagnostic centres in North Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
3.	Bardez	North	Dr. Rao's Diagnostic Centre	Comunidade Ghor, Angod, Mapusa	2255399	ketanrao@gmail.com
4.	Bardez	North	Clinical Laboratory	Opposite Remanso Hospital, Rajwaddo, Mapusa	6520773	drab.cardoso@gmail.com
5.	Bardez	North	Central Diagnostic Centre	S-8/9, Garden Centre, Opposite Police Station, Mapusa	7769965052	centraldiagnosticcentremapusa@gmail.com
6.	Bardez	North	Ace Diagnostic Centre	Shop No. 12, Shivsagar Apartments, Opposite The Goa Urban Cooperative Bank, Near Maruti Temple, Mapusa	6529410/9850471360	srgudanwar@gmail.com
7.	Bardez	North	Mapusa Microlab	Britto's Apartment, Near Britto's High School, Mapusa	2254932/ 9823382928	microlabmapusa@yahoo.com
8.	Bardez	North	Raman path- lab Clinic	Jesma Business Centre, Morod, Mapusa	9404149543	drnarasinhamarkhande@gmail.com
9.	Bardez	North	Metropolis The Pathology Specialist	Vitara Towers, Dhuler, Mapusa	9850471360	srgudanwar@gmail.com
10.	Bardez	North	Health Key Pathology Lab & Diagnostic Centre	Elite Tower, Opposite Cafe Coffee Day, Mapusa	9112258900	healthkeylabs@gmail.com
11.	Bardez	North	Nila Patho-lab	Near Neelam's The Grand Inn, Naikawado, Calangute	2276588	NA
12.	Bardez	North	Barve's Clinical Laboratory	Kenkre's Filandre Edifice, Opposite Jama Masjid, Angod, Mapusa	9822380710	amolbarve@yahoo.com
13.	Bardez	North	Dr.Fonseca's (Siolim) Pathology Laboratory	Near S.F.X.School, Bamanwada, Siolim, Bardez, Goa	2427735/ 9822588863	dr.fonsecaspathlaboratory@gmail.com
14.	Bardez	North	Radiance Diagnostics	E Boshan, Opposite Bodgeswar Temple, Calangute-Mapusa Road, Mapusa Goa.	832 2254545	rdmapusa@radiancediagnostics.in
15.	Bardez	North	Dr. Sardesai X-Ray and Ultrasound	Nirmal Building, Alto Porvorim, Goa - 403521, Near Tarun Bharat, Opposite Jeevotam Muth,	2417319/ 8007403572	mahesh_sardesai@hotmail.com

Diagnostic centres in North Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
16.	Bardez	North	*Siolim Pathological Laboratory	Near S. F. X. High School, Bamanwado, Siolim, Bardez, Goa Pin Code 403517	9923853998	siolimpatholab@gmail.com
17.	Bicholim	North	Ashwini Path Lab	1st Floor, Shanta Commercial Complex, Sanquelim - Goa	9823850120, 2364524	drprasadnetravalkar@gmail.com
18.	Pernem	North	Clinometer Pathology Laboratory	Padnirwada, Morjim	9423309185	clinotechlab@rediffmail.com
19.	Pernem	North	*Mahaganpati Lab	Ward 8, Bazarpeth, Pernem	9420208584	NA
20.	Pernem	North	Mahalaxmi Pathology Laboratory	Shop No. 2, Petechawada, Korgao, Pernem, Goa. Near Dr. Suryawanshi Clinic	9145052533	NA
21.	Ponda	North	Kamala Scans	325,3rd Floor, Rajdeep Valeria, Opposite Usgaonkar's Children Hospital, Sadar, Ponda, Goa 403 401	8007723987	dr.sarveshdubhashi@gmail.com
22.	Ponda	North	Shriprasad Diagnostic Laboratory	Near Old Bust Stand, BSNL Road, Behind Menino Hotel, D. K. Arcade, Shop -C9, Upper Ground Floor, BSNL Rd, Khadpabandh, Ponda, Goa 403401	2311299	shriprasaddlab@gmail.com
23.	Ponda	North	Patholab	Opposite Kerkars Gallery, Ponda Goa 403401	2312051	patholab85@gmail.com
24.	Ponda	North	Ashwini Path Lab	1st Floor, Om Sai Datta Apartments, Above Rahul Motors, Next to Gaunekar Building, Shantinagar - Ponda, Goa	2318221/ 9822102524	drprasadnetravalkar@gmail.com
25.	Ponda	North	Goa Diagnostic Lab	Beside Bank of India, Market, Kaziada, Ponda, Goa 403401	2317571	goadiagnosticlab@gmail.com
26.	Tiswadi	North	* Speciality Diagnostic Lab	G-34, Building A1, Jairam Complex, Neogi Nagar, Rua De Ourem, Panaji, Goa-	9822155167	ramniksood@gmail.com

Diagnostic centres in North Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
				403001. INDIA		
27.	Tiswadi	North	Dr. Dhume's Clinical Laboratory	Ground Floor, Vaidhya Hospital Building, Municipal Market Road, Santa Inez, Panaji, Goa	2232258/ 9850477576	drdhumeslab@yahoo.in
28.	Tiswadi	North	Dr. Bijal Rane	2464422/8408019519		bijalrane@gmail.com
29.	Tiswadi	North	Dr. Tosha's Lab and Medical Center	Anand Suman, DB Marg, Miramar - Goa	2464444/ 9822138770	tosha_lab@yahoo.in
30.	Tiswadi	North	CitiLab	Kamat Centre, First floor, DB Marg, Panaji - Goa	2229002/ 9822122912	prafullavelingkar25@gmail.com
31.	Tiswadi	North	Pathonal Laboratory	1st floor, Nizmar Center, AB Road, Panaji - Goa	2223421/ 9822122421	sccnavelkar@gmail.com
32.	Tiswadi	North	Dr. Raghuwanshi's Diagnostic Center	Gurudatta Apartments, Near Don Bosco, Panaji - Goa	2431606/ 9822164336	raghuwanshidiagnostic@gmail.com
33.	Tiswadi	North	Ultra Sound Clinic	Mahalaxmi Chambers, 18th June Road, Panaji-Goa	2228743/ 9850083348	vidyasardessai@gmail.com
34.	Tiswadi	North	Dr. Rivonkar's Imaging Center	Campal Trade Centre, Behind Military Hospital, Campal, Panaji-Goa	2223046/ 9823147904	dr Rivonkar@yahoo.co.in
35.	Tiswadi	North	Bio Clinic	Campal Trade Centre, Behind Military Hospital, Campal, Panaji-Goa	2227752/ 98221 30173	Does not have
36.	Tiswadi	North	Dr. Lal Path Labs	Shop No 1-7, Zarina Towers, St. Inez, Panaji-Goa	9579249594/ 7838371970	lpl.goa@lalpathlabs.com

Diagnostic centres in North Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
37.	Tiswadi	North	Metropolis	1st Floor, J N Chambers, Dr. Shirgaonkar Road, Panjim, Goa	2232816/ 8422 852181	goa.micron@metro polisindia.com
38.	Tiswadi	North	SRL Diagnostic Center	M.G. Road, Nextto Woodland Showroom, Panaji, Goa	2430111/ 84528 14792	customercare.goa@ srl.in
39.	Tiswadi	North	Dr Dhume Clinical Lab and Research Centre	Ground Floor, Vaidhya Hospital Building, Municipal Market Road, Near Municipal Market, Santa Inez, Panaji, Goa	2412081/ 9326114685	dr.dhumeslab@yah oo.in
40.	Tiswadi	North	Central Clinical Laboratory	6, 2nd Floor, Velho Building, Panaji, Opposite Municipal Garden, Goa - 403001	0832 – 2412083/ 9152762531	drpshenoy@gmail.c om
41.	Tiswadi	North	Radiance Diagnostics	Dr. E Borges Road, Harmony, Ground Floor Plot No. C-4, Bella Vista Colony, Opposite Cidade De Goa, Dona Paula Goa, India, 403004	832 2452455	frontdesk@radiance diagnostics.in

Diagnostic centres in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
42.	Canacona	South	Yeshwant Diagnostics	Ground Floor, Omarkar Building, Next to KTC Busstand, Chaudi, Cana cona, 403702	2644990	dr.swatidpaigoa@gmail .com
43.	Canacona	South	Vedh Pathology Laboratory	Anandi Building Chaudi Canacona	2644831	vedhlab@rediffmail.co m
44.	Mormugao	South	Sidad's Pathology Laboratory	4 & 5, First Floor, Left Wing, Chase Chambers, Swatantra Path, Vasco da Gama	2501316	sidads@hotmail
45.	Mormugao	South	Dr. Savoikar's Diagnostic Laboratory	Near HP Petrol Pump, Vaddem, Vasco	6483688	nsavoikar@rediffmail.c om
46.	Mormugao	South	Dr.N.P.S Savoikar Path Lab	Ground Floor, Chase Chambers, Vasco da Gama, Goa 403802	2511780 9850454573	nsavoikar@rediffmail.c om

Diagnostic centres in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
47.	Mormugao	South	Radiance Diagnostics	Umiya Quatro, Block A, Ground Floor, Near Goa International Airport, Dabolim - Vasco, Goa.	9527022221	rdvasco@radiancediagnostics.in
48.	Mormugao	South	Techno-Clin	DU-4, Upper Ground Floor, Suvidha Complex, Opposite Tilak Maidan, Tomar Roadways, Near ICICI Bank, Vaddem, New Vaddem Vasco da Gama, Goa 403802	2517730 94224 55696	technoclinpathlab@gmail.com
49.	Mormugao	South	Dr.Savoikar's City Diagnostic Pathology Laboratory	Vasco –Opposite Laxmi Petrol Pump, Opposite Lafarge,	9850454573	nsavoikar@rediffmail.com
50.	Mormugao	South	Ashwini Path Lab	Khalap Mansion, Near Talauliker Nursing Home, Vasco da Gama	2513397 9822102524	drprasadnetravalkar@gmail.com
51.	Mormugao	South	Radiance Diagnostics	Umiya Quatro, Block A, Ground Floor, Near Goa International Airport, Dabolim - Vasco, Goa.	2452455 9527022221	info@radiancediagnostics.in
52.	Quepem	South	Lab Plus	Above Ayusha Medicentre, Behind Goa Urban Co-Operative Bank, Curchorem	2654393	labplus.babs@gmail.com
53.	Quepem	South	Suvidha Polyclinic	Furtado Mansion, Opposite Police Station, Curchorem, Goa	2651234	NA
54.	Quepem	South	Suburban	Angelica Arcade Building, Quepem, Goa	9822985959 2662959	pravin.phaldesai@yahoo.com
55.	Salcete	South	Suburban Diagnostic	Viegas Residency, Ground Floor, Near St. Mary of Angels School, First Palvem deusua road, Chinchinim, Salcete, Goa	9152341453 8698719811	clyde.machado@suburbanbandiagnostics.com
56.	Salcete	South	Suburban Diagnostics	Shop No. G 6, Ground Floor, Next to So-Faz, Colva Beach Road	914611184	gemmdiagnostic@gmail.com
57.	Salcete	South	Ghodekar Path Lab	Culwaddo, Cuncolim, Goa, 403703	2865181	harshaghodeker@gmail.com

Diagnostic centres in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
58.	Salcete	South	SRL Logistics	S-11,2nd floor, Fathima Chambers, Near New Telephone Exchange	9422454542	drwilly14@rediffmail.com
59.	Salcete	South	Lab Plus	2nd floor, Sheeshmahal, Above Monginis, Near Loyola High School, Comba, Margao Goa	2712334	labplus.babs@gmail.com
60.	Salcete	South	Shushrushalaya	1st Floor,Vasant Arcade, Margao, Goa	2703882	diyamedicles@tahoo.co.in
61.	Salcete	South	Healthline	Near Vishant Theatre,Aquem, Margao, Goa	9422440270	healthlabs123@gmail.com
62.	Salcete	South	Jeevan Jyoth Patholab (Dr. Urvashi Naik)	Olive Arcade Building,Below Bank of India,Chinchinim Bazaar,Salcete, Goa	9810635527	-
63.	Salcete	South	Suburban Diagnostic Navelim	Shop no 14, Mascarenhas HeritageCo-Op. Housing Society, Ratwado,Navelim, Goa	08322725048	vijalaxmi@gmail.com
64.	Salcete	South	Grace X-ray and Ultrasound Clinic Centre	Opposite Reliance Trade Centre, Near Grace Nursing Home(hospital), Margao, Goa	3226055	doclmeida01@yahoo.com
65.	Salcete	South	Dr. Mahesh Raikars Pathology Laboratory	Souza Fernandes Enclave HousingSociety, Piquen Vanelim, Near Green House, Behind ICICI Bank, Colva, Goa	9890288980/ 0832 - 2703559/ 0832 - 2735515	drmmraikar@yahoo.com
66.	Salcete	South	Dr. Lal path Lab	A-3, 2nd Floor, Hira Niketan, Near Loyola School,Comba, Margao, Salcete,Margao,Goa	2714203/ 8002082452	lpl.margaon@gmail.com
67.	Salcete	South	*Tulip Diagnostics Private Limited	Plot No. 92/96, Phase II C, Verna Industrial Estate, Verna Goa - 403722	9822388876	manjunath@tulipgroup.org
68.	Salcete	South	*Grace Lab	So 4, Sapana Chambers, 2nd Floor,Behind Grace Nursing Home, Margao,	0832- 2730084/	gracelabmargao@gmail.com

Diagnostic centres in South Goa						
Sr. No	Name of the Taluka	District	Name of the Hospital	Address	Contact number	E-mail ID
				Goa 403601	9822176746	
69.	Salcete	South	*Dr. Raiker's Pathology Laboratory	9 First floor, Anantdhara Building, Isidore Baptista Road, Pajifond, Margao 403601	7588400433	raikerlab@gmail.com
70.	Salcete	South	*Magnum Diagnostics/ Neo Scans LLP	Mahalasa Krupa, Eastern Express Bypass, Aquem Margao, Goa 403701	08322756200, 08322756250, 9422639458	neoscansgoa@gmail.com
71.	Sanguem	South	Paarth Laboratory	Opposite Post Office, Bamansai, Sanguem	9765749680	-
72.	Sanguem	South	Dr Raikars Pathology Lab (Samruddi)	Srishant Plaza, Near Union Bnak, Sanguem	8275381989	raikerlab@gmail.com
No. Of Facilities72						

*The waste generation from hospitals and clinics marked with an * have not been included in the calculation of total volume of waste generation in Goa. These however, will not have a substantive effect on the waste quantification of the State.

Table of Summarized details of all Hospitals/Clinics/Health care facility.

District	Taluka	Government						Private					
		Hosp -ital	CHC	PHC	UHC	ESI	Vet	Hosp -ital	Dental	Clinics	Diag- nostic	Pet	Total
North	Bardez	1		5	1	1	1	24	67	77	16	8	201
North	Bicholim			3		1		7	3	12	1		27
North	Pernem		1	1		1		3	2	26	3	2	39
North	Ponda	1		2		3	1	15	19	29	5	1	76
North	Sattari		1			1	1		1	1			5
North	Tiswadi	6		3	1	2	1	10	43	88	16	6	175
South	Canacona		1						2	9	2		14
South	Dharbandara	1		1									2
South	Mormugoa	3		2	1	2		7	21	24	8	2	70
South	Quepem		1	1		1		4	7	14	3	2	33
South	Salcette	3		5	1	2	1	33	92	148	16	9	310
South	Sanguem			1					1	6	2		10